



OUTGOING

EAWML/37203

**RHUDDLAN BACH QUARRY
BRYNTEG
ANGLESEY**



PERMIT

LICENCE HOLDER:

**C & M PARRY PLANT HIRE LIMITED
GARREG FAWR
TREARDDUR BAY
HOLYHEAD
ANGLESEY
LL65 2YL**

**COLOUR
ORIGINAL**



ASiantaeth Yr
Amgylchedd Cymru
ENVIRONMENT
AGENCY WALES

ENVIRONMENTAL PROTECTION ACT 1990 WASTE MANAGEMENT LICENCE

LICENCE REF No:- EAWML/37203

FACILITY TYPE:- TRANSFER STATION & LANDFILL

The Environment Agency, in pursuance of Part II of the Environmental Protection Act 1990, hereby grant a waste management licence authorising the disposal, keeping and treatment of controlled waste in and on the land specified in schedule 1 to this licence to C. & M Parry Plant Hire Limited, Garreg Fawr, Trearddur Bay, Holyhead, Anglesey, LL65 2YL, Company Registration No: 1808725 that person being in occupation of the said land, the said licence being subject to the conditions specified in schedule 2 to this licence.

In this licence the words and expressions contained in schedule 2 shall have the meaning assigned to them therein.

SCHEDULE 1 – SPECIFIED LAND

The licence relates to the land at Rhuddlan Bach Quarry, Brynteg, Anglesey (hereinafter called "the site") shown edged red on Drawing Reference Number CMP/002, dated 10 August 1998, and attached to this licence.

Signed Clare Walters

Name: CLARE WALTERS

Team Leader Waste Licensing – Northern Area

Dated: 21 September 1999

FOR ENVIRONMENT AGENCY OFFICIAL USE ONLY

YOUR ATTENTION IS DRAWN TO THE RIGHTS OF APPEAL DETAILED IN THE NOTES AT THE END
OF THIS LICENCE

Environment Agency, Llwyn Brain, Ffordd Penlan, Parc Menai, BANGOR, Gwynedd, LL57 4BP



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Drawing No. CMP/002:

Rhuddlan Bach Quarry:
Inert Landfill/Transfer Station
Application - Site Layout Plan

Scale: 1:2,500

Date: 10 August 1998

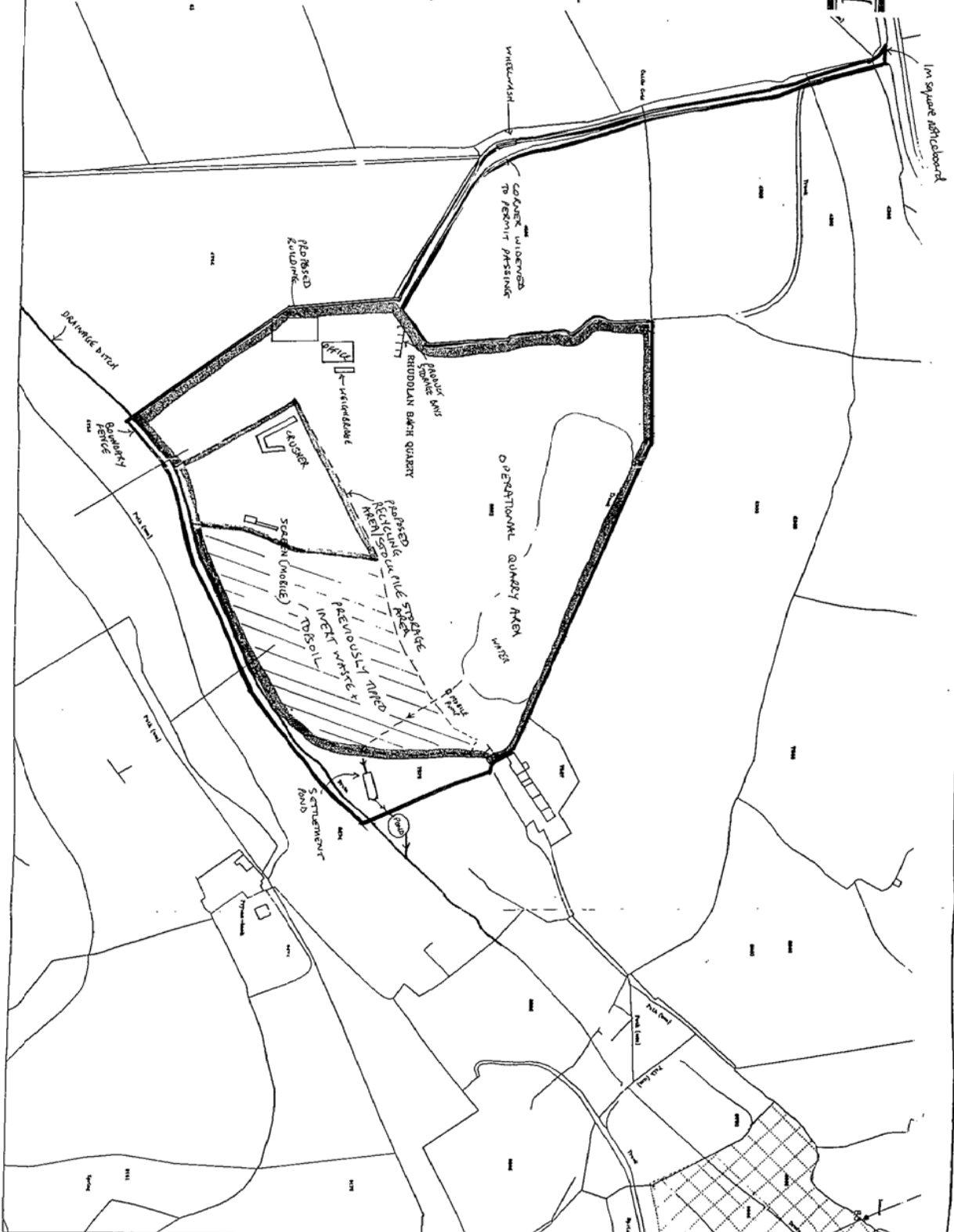
Legend:

Application area

Recycling area

Landfill tipping boundary

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SCHEDULE 2: CONDITIONS RELATING TO THIS LICENCE (including definitions)

1 General considerations

1.1 Specified waste management operations

1.1.1 No waste management operations shall be authorised by this licence unless:

- a specified in and undertaken in accordance with sections 1 to 5 of the working plan;
- b specified in and undertaken in accordance with the limitations in the following table:

Table 1.1 Specified waste management operations

Specified waste management operation	Restrictions on otherwise permitted waste types which shall be subject to the specified operation	Limits on specified waste management operations
Landfill	Inert waste	<p>The deposit of waste for landfill shall only take place within the area shown edged in orange on Drawing Number CMP/002</p> <p>No more than 48,000 tonnes to be deposited in any year</p> <p>The maximum volume available for landfill shall be 350,000 cubic metres</p> <p>Landfilling shall be completed by 31 December 2011</p>
Transfer/ Treatment	Commercial household and industrial waste comprising mixed biodegradable and inert solid wastes	<p>The deposit of wastes for transfer/treatment shall only take place within the area outlined in green on Drawing Number CMP/002</p> <p>No more than 27,000 tonnes to be deposited in any year</p> <p>No more than 400 tonnes of untreated waste shall be stored at any one time</p> <p>Biodegradable waste shall not be stored for a period longer than 5 days</p>

Exempt waste management activities

- 1.1.2 Where wastes are being brought onto the site for waste management activities which are exempt from licensing under the Waste Management Licensing Regulations 1994 or any statutory provisions amending or replacing them, then those wastes shall be kept clearly segregated and identified from wastes which are being kept on the site for the specified waste management operations under these licence conditions. Any wastes deposited at the site and stored for the purpose of an exemption under the Waste Management Licensing Regulations 1994 or any statutory provisions amending or replacing them, shall not be deposited for disposal to landfill or be incorporated into the landfill material unless the express written consent of the Environment Agency has been obtained.

1.2 Permitted wastes

Permitted waste types and quantities - Landfill

- 1.2.1 No wastes other than those, which are both categorised below and specified in detail in section 1.7 of the working plan, shall be accepted at the site for final disposal.

Table 1.2.1 Permitted quantities of waste – Landfill	
Permitted waste categories	Maximum permitted quantities (tonnes/year)
Inert wastes	48,000
Scrap metal	Not permitted
Special wastes	Not permitted
Degradable household wastes (excluding inert, scrap metal and special wastes)	Not permitted
Degradable commercial wastes (excluding inert, scrap metal and special wastes)	Not permitted
Degradable industrial wastes (excluding inert, scrap metal and special wastes)	Not permitted
Other wastes	Not permitted

Permitted waste types and quantities - treatment

- 1.2.2 No wastes other than those, which are both categorised below and specified in detail in section 1.7 of the working plan, shall be accepted at the site for treatment.

Table 1.2.2 Permitted quantities of waste – treatment	
Permitted waste categories	Maximum permitted quantities (tonnes/year)
Inert wastes	27,000
Scrap metal	2,500
Special wastes	Not permitted
Degradable household wastes (excluding inert, scrap metal and special wastes)	2,500
Degradable commercial wastes (excluding inert, scrap metal and Special wastes)	2,500
Degradable industrial wastes (excluding inert, scrap metal and Special wastes)	2,500

Exclusion of waste types with specified hazard characteristics

- 1.2.3 Notwithstanding the specification of permitted waste types within section 1.7 of the working plan, wastes shall not be accepted which have any of the following specified characteristics:

Table 1.2.3 Excluded wastes of specified form and type

Waste Form	Type
Solid	Dry wastes, Special Wet wastes, non-Special Wet wastes, Special
Powders	Non-Special Special
Sludges	Non-Special Special
Liquid wastes	Non-Special Special
Waste containers	Packaged wastes - unmixed Packaged wastes - mixed

1.3 **Hours of operation**

- 1.3.1 The specified waste management operations authorised by this licence shall only be carried out within the times specified in section 4.1 of the working plan.

1.4 **Duration of activities - groundwater protection**

- 1.4.1 The activities of disposal, or tipping for the purpose of disposal, of waste, which are authorised by this licence, shall cease on or before 31 December 2011.

1.5 **Staffing and understanding of requirements of licence conditions and working plan**

Minimum staffing and supervision

- 1.5.1 Whenever the site is open to receive waste it shall be supervised by at least one member of staff who is fully conversant with the requirements of the licence and the working plan regarding:

- a** waste acceptance and control procedures;
- b** operational controls and environmental monitoring;
- c** maintenance;
- d** record-keeping;
- e** emergency action plans;
- f** notifications to the Agency.

Availability of licence and working plan

- 1.5.2 A copy of this licence and the working plan shall be kept available on site for reference when required by all site staff carrying out work under the requirements of the licence.

Understanding of licence and working plan

- 1.5.3 All site staff shall be, or shall work under the direct supervision of a member of staff who is, fully conversant with those aspects of the licence conditions and working plan which are relevant to their specific duties.

1.6 Changes in technically competent persons

- 1.6.1 Any changes in the technically competent management of the site and the name of any incoming person together with evidence that such person has the required technical competence shall be submitted to the Agency in writing within 5 working days of the change in management.

1.7 Relevant convictions

Notification of relevant convictions

- 1.7.1 In the event of the Licence Holder and/or any relevant person being convicted of any relevant offence (as defined in Regulation 3 of the Waste Management Licensing Regulations 1994 or any amendment to the aforementioned regulation) and which is in addition to any already notified to the Agency, then full details shall be provided to the Agency within 14 days of conviction, whether or not the conviction is subsequently appealed. Such details shall include, in respect of each relevant person (as defined in section 74(7) of the Environmental Protection Act 1990 or any subsequent amendments to that section), the nature of the offence, the place and date of conviction, any sentence, and any fine or other penalty imposed.

Notifications of appeals against convictions

- 1.7.2 In the event that the Licence Holder lodges an appeal against any such conviction, the Licence Holder shall notify the Agency of this within 14 days of the lodging. The Licence Holder shall notify the Agency of the results of that appeal, within 14 days of the appeal being decided.

1.8 Maintenance of financial provision

- 1.8.1 The financial provision for meeting the obligations under this Licence set out in the Agreement made between the Licence Holder and the Agency dated 27 April 1999 shall be maintained by the Licence Holder throughout the subsistence of this licence and the Licence Holder shall produce evidence of such provision whenever required by the Agency.
- 1.8.2 No activities authorised by this Licence shall be commenced until the Licence Holder has secured a bond in compliance with the Agreement made between the Licence Holder and the Agency dated 27 April 1999 and the Licence Holder has given prior written notice to the Agency of the intention to commence operations at the site.
- 1.8.3 The financial provision for meeting the obligations under this Licence set out in the Agreement referred to in the previous paragraph shall be maintained by the Licence Holder from the date of the bond throughout the subsistence of this Licence and the Licence Holder shall produce evidence of such provision whenever required by the Agency.

- 1.8.4 The financial provision for meeting the obligations under the Licence set out in the Licence Holder's Agreement dated 27 April 1999 shall be maintained throughout the subsistence of this Licence and the Licence Holder shall produce evidence of such provision whenever required by the Agency PROVIDED THAT if the activities authorised by this Licence are not completed within one year from the date of this Licence the Licence Holder shall make and thereafter maintain for the subsistence of this Licence alternative financial provision adequate to discharge the obligations arising under this Licence as shall be agreed between the Licence Holder and the Agency but in the event that agreement cannot be reached as shall be required by the Agency.

1.9 **Amendments to working plan and supporting information**

Amendments to working plan requiring prior consent from the Agency

- 1.9.1 The Licence Holder shall give the Agency prior notice in writing of any proposed change to any section of the working plan specifically referred to in this licence. The Licence Holder shall also give the Agency prior notice in writing of any proposed change to any section of the working plan cross referenced to any section of the working plan specifically referred to in this licence.
- 1.9.2 Where relevant the written notice referred to in condition 1.9.1 shall be supported by a written risk assessment of the effect of implementing the proposed change to the affected section of the working plan on the risk of the site to land, to groundwater, to surface water, and to humans dwelling or working in the vicinity of the site and to environmental habitats and Sites of Special Scientific Interest in the vicinity of the site.
- 1.9.3 Any proposed change to said section of the working plan shall not be implemented unless the Agency has given its written consent to it. Following consent, the Licence Holder shall give the Agency prior written notification of the implementation date of the change, and from that date the changed section shall be deemed to be incorporated in the working plan in replacement of the previous version of that section.
- 1.10 **Notification of change of operator's or holder's details**
- 1.10.1 The following information shall be notified in writing within 5 working days to the Agency:
- a where the Licence Holder is an individual or named individuals in a partnership:
 - i the death of the Licence Holder;
 - ii any steps taken with a view to the Licence Holder going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case of a partnership, dissolving the partnership;
 - iii any change in the operator's trading name, registered name or registered office address (if different from the Licence Holder);
 - b where the Licence Holder is a registered company:
 - i any change in the Licence Holder's trading name, registered name or registered office address;
 - ii any steps taken with a view to the Licence Holder going into administration, entering into a company voluntary arrangement or being wound up;
 - iii any change in the operator's trading name, registered name or registered office address (if different from the Licence Holder)

1.11 Notification of preparatory works

- 1.11.1 No preparatory works shall be undertaken unless at least 7 days notice in writing have been given to the Agency of the intention to do so. The notification shall include details of what work is being done and when.

1.12 Notification of commencement, cessation and recommencement of waste handling operations

Commencement of waste management operations

- 1.12.1 No specified waste management operation shall be carried out until at least 7 days notice in writing has been given to the Agency of the intention to commence carrying out the specified waste management operation.

Cessation of waste management operations

- 1.12.2 In the event that the site ceases all waste management operations, either permanently or for longer than three months, then no later than 5 working days following the cessation of waste management activities, the Licence Holder shall inform the Agency, in writing, of the date of cessation and the planned date of recommencement. In the event that the site recommences waste management operations sooner than the notified date, then the Licence Holder shall give the Agency at least 5 working days notice in writing.

1.13 Notifications and submissions to Agency

- 1.13.1 Except where otherwise specified, all notifications and submissions to the Agency under the requirements of these licence conditions:

- a** shall be made in writing, to the address specified by the Agency in writing at the time of issue of this licence, or as subsequently specified by written notification to the Licence Holder;
- b** shall quote the licence reference number and the name of the Licence Holder.

2 Site engineering for pollution prevention and control

2.1 Engineering surveys

2.1.1 Engineering surveys shall be carried out as follows:

- a** on the commencement of any permanent engineering works carried out to meet the requirements of these licence conditions, to establish the levels and co-ordinates of the base of the works for validation and recording purposes;
- b** on the completion of those permanent engineering works carried out to meet the requirements of these licence conditions, to establish the levels and co-ordinates of the completed works for validation and recording purposes;
- c** on an annual basis, commencing 12 months after the date of issue of this licence, to determine the contours of the site and the deformation and settlement of the site since the previous survey.

The results of any such surveys shall be submitted to the Agency within 1 month of the completion of the works, and shall include a statement of all tolerances and accuracy standards assumed.

2.2 Engineered site surface and drainage systems

Engineered site surface and drainage systems - landfill

- 2.2.1 No waste shall be deposited for disposal in any area of the site until the drainage system for that area has been constructed and completed in accordance with this condition and section 2.10 of the working plan.

Design, construction and maintenance procedures and records

- 2.2.2 The engineered drainage systems shall be maintained, and shall be fully documented and recorded, to the specified standards in accordance with section 2.10 of the working plan.

Engineered site surface and drainage systems treatment plant

- 2.2.3 No waste shall be deposited for transfer or treatment in any area of the site until the engineered site surface and drainage system for that area has been constructed and completed in accordance with this condition and section 2.8 of the working plan. No waste shall be deposited for treatment until a disposal route for water collecting in the holding tank has been notified to the Agency.

Design, construction and maintenance procedures and records

- 2.2.4 The engineered site surface and drainage systems shall be maintained, and shall be fully documented and recorded, to the specified standards in accordance with section 2.8 of the working plan.

2.3 Construction quality assurance of engineered site surface and drainage

2.3.1 No wastes shall be deposited or handled in any area unless:

- a** details of the identities, relevant experience and relevant qualifications of the personnel who will be providing Quality Assurance of the engineered site surface and drainage systems have been submitted in writing to the Agency and acknowledged in writing by the Agency;
- b** the Validation Report on the construction of the engineered site surface and drainage system for that area has been submitted in writing to the Agency and has been acknowledged in writing by the Agency.

2.4 Surface preparation

2.4.1 No waste shall be deposited in any phase until:

- a** all materials with significant organic content (greater than 5% w/w), including surface vegetation and surface soil, which may have the potential to generate landfill gas or leachate have been stripped from the surface in the areas where waste is to be deposited;
- b** at least 5 working days notice has been given in writing to the Agency of the intention to commence waste deposits in that phase.

2.5 Landfill gas monitoring/management systems

Provision of landfill gas monitoring/management system within the body of the waste

2.5.1 No wastes shall be deposited for disposal in any cell/phase unless:

- a** the engineered landfill gas monitoring/management system is being provided in accordance with this condition and section 4.81 of the working plan.

Within 1 month following completion of the specified engineering works for each cell/phase, a Validation Report on the construction of the engineered landfill gas monitoring/management system for that cell shall be submitted in writing to the Agency.

Provision of landfill gas monitoring system external to the waste

2.5.2 No waste shall be deposited for disposal until at least 12 landfill gas monitoring points, spaced around the perimeter of the site, have been provided to enable monitoring for the presence and quantity of landfill gas in the strata external to the tipping area, unless otherwise agreed in writing with the Agency.

Provision of landfill gas monitoring system for pre-monitoring

2.5.3 No waste shall be deposited for disposal unless at least two further landfill gas monitoring points have been provided within the proposed tipping area.

Construction quality assurance of landfill gas monitoring systems external to the waste and for pre-monitoring

2.5.4 Prior to the installation of the gas monitoring points:

- a a Construction Plan covering construction details and proposed positioning of the landfill gas monitoring points shall be submitted in writing to the Agency and the Agency shall have given its written consent to it;
- b details of the identities, relevant experience and relevant qualifications of the personnel who will be providing Quality Assurance of the construction shall be submitted in writing to the Agency and acknowledged in writing by the Agency;
- c the landfill gas monitoring points shall be constructed and recorded in accordance with the Construction Plan;
- d changes to the Construction Plan shall not be implemented unless they have been notified in writing to the Agency, and the Agency has given its written consent to those changes;
- e within 1 month following completion of the construction of the landfill gas monitoring points a Validation Report shall be submitted in writing to the Agency.

2.6 **Removal of residual wastes from the treatment area of the site**

- 2.6.1 In the event that the permitted waste management operations on the site cease and the Agency has reasonable grounds to believe that they will not be resumed, all wastes remaining on the treatment area of the site shall be removed by the date specified in writing by the Agency.

2.7 **Site completion - final landform and engineering**

Site restoration

- 2.7.1 The site shall be restored in accordance with the details in section 5 of the working plan to achieve the finished levels shown on the drawings numbered CMP/005 and CMP/006.

Cessation of waste inputs

- 2.7.2 In the event that the permitted waste management operations on the site cease and it is confirmed to the Agency that they will not be resumed. The Licence Holder shall ensure that any uncompleted cells are provided with the landfill gas monitoring systems and final restoration under the other conditions of this licence, so as to achieve a landform that meets the following standards:

- a maximum gradient of 1 in 3;
- b no surface water pooling on the site.

3 Site infrastructure

3.1 Provision of site identification board

- 3.1.1 No wastes shall be received at the site unless an identification board has been provided at, or near the site entrance.
- 3.1.2 The identification board shall be inspected once each working day. In the event of damage or defect, the board shall be repaired or replaced within 3 working days.
- 3.1.3 The board shall be easily readable from outside the site entrance in daylight hours, and shall display the following information:
- a site name and address;
 - b licence Holder name (company name, not individual name unless justified as necessary);
 - c operator name (company name, not individual name unless justified as necessary);
 - d licence number;
 - e emergency contact name and telephone number (for security reasons, personal names and home phone numbers should not be used except where no alternative is practicable);
 - f Agency national numbers: 0645 333111 and 0800 807060;
 - g days and hours site is open to receive waste.

3.2 Site security

- 3.2.1 Site security systems shall be provided and maintained at all times during the subsistence of this licence, and shall be fully documented and recorded, in accordance with section 2.3 of the working plan. These shall be installed, operated and maintained to prevent access by humans and livestock which is not authorised either by the Licence Holder or under legal powers of entry.
- a Operational standards:
The site shall be kept closed and secure at all times when unattended;
 - b Maintenance standards:
The site security shall be fully inspected, daily and a record of inspections made as specified in the inspection record form in appendix 2 of the working plan in the site diary. Any defects or damage shall be made secure by the end of the working day, and shall be repaired within 3 working days of the damage being detected. All repairs shall be recorded in the site diary.

4 Site operations

4.1 Control of mud and debris

Prevention of mud and debris on road

- 4.1.1 Whenever the site is receiving or despatching wastes, measures shall be provided, operated and maintained as specified in sections 2.6 of the working plan, in order to prevent the deposit or tracking of mud or debris arising from the site onto public areas outside the site, which shall include public highways and areas of public access outside the site.

Remediation of mud and debris on road

- 4.1.2 In the event that mud or debris arising from the site is deposited onto public areas outside the site, the remedial measures specified in section 4.7.4 of the working plan shall be implemented immediately.

4.2 Potentially polluting leaks and spillages of waste

Potentially polluting leaks and spillages from vehicles, plant and equipment

- 4.2.1 All vehicles used on the site which are under the operator's control, and all plant and all equipment used on the site in connection with waste management operations, shall be operated and maintained so as to prevent potentially polluting leaks and spillages of wastes.

Control and remediation of leaks and spillages

- 4.2.2 In the event of any potentially polluting leak or spillage occurring on site the documented control and remediation procedures specified in section 4.4 of the working plan shall be implemented immediately and all actions recorded in the site diary.

4.3 Fires on site

- 4.3.1 No wastes shall be burned on the site other than through a specified waste management operation exempted from waste management licensing.
- 4.3.2 In the event of a fire on the site not permitted under condition 4.3.1 of this licence immediate action shall be taken to extinguish it or if appropriate inform the emergency services. The Agency shall be informed forthwith of any incidents involving fires on the site.

4.4 Waste acceptance and control systems and procedures

Waste acceptance procedures

- 4.4.1 All wastes shall be received, inspected, accepted or rejected, and recorded in accordance with the waste acceptance procedures specified in section 3 of the working plan.

Waste control procedures

- 4.4.2 All wastes accepted at the site for disposal shall be handled, kept and recorded in accordance with the waste control procedures specified in sections 3.4 and 3.5 of the working plan. All wastes accepted at the site for treatment shall be handled, kept and recorded in accordance with the waste control procedures specified in sections 3.4 and 3.6 of the working plan.

Waste despatch procedures

- 4.4.3 All outgoing wastes shall be inspected, despatched and recorded in accordance with the waste despatch procedures specified in section 3.3.3 of the working plan.

Incompatible wastes

- 4.4.4 Incompatible wastes which are likely, in combination with each other or with other material at the facility, to give rise to pollution of the environment or harm to human health outside the site, shall be clearly identified and kept physically separate in designated areas.

Sampling and testing of wastes

- 4.4.5 Any wastes not subject to sampling *in situ* which are suspected of being non-inert shall be sampled and tested in accordance with the quality assured schedules, methods and procedures specified in section 3.7.1 of the working plan to confirm their composition and characteristics.

Means of measurement

- 4.4.6 All wastes accepted at and despatched from the site shall be measured in accordance with section 3.4 of the working plan.

4.5 **Waste treatment processes**

Sorting and screening

- 4.5.1 Waste sorting and screening shall only be carried out on the site in accordance with this condition and sections 2.8 and 3.6 of the working plan.

Sorting and screening plant and equipment

- 4.5.2 The plant and equipment used for waste sorting and screening shall be designed, constructed, installed, operated maintained and documented and recorded, in accordance with sections 2.8 and 3.6 of the working plan.

Process quality control

- 4.5.3 Waste sorting and screening shall only be carried out in accordance with a fully documented and recorded quality control and quality assurance programme, which shall become part of the working plan.

4.6 **Methods and procedures of waste discharge and emplacement**

- 4.6.1 No wastes shall be deposited in any phase or cell of the landfill other than in accordance with the methods and procedures for waste discharge and emplacement, as specified in section 3.5 of the working plan.

5 Pollution control monitoring and reporting

5.1 Landfill gas monitoring and reporting

Monitoring of the site for landfill gas prior to the emplacement of waste

5.1.1 No wastes shall be deposited for disposal unless:

- a** 12 weekly readings as specified in table 5.1.3 have been made at each of the monitoring points required to be installed by virtue of conditions 2.5.2 and 2.5.3;
- b** the results of the pre-monitoring have been submitted to the Agency along with a plan showing the position of the monitoring points and details of their construction;
- c** an analysis of the results suggesting background levels for individual gasses for future reference to the Landfill Gas Emergency Action Plan produced by virtue of condition 5.1.6;
- d** the Agency has provided written confirmation of acceptance of the results and suggested background levels.

Landfill gas monitoring and sampling programme

5.1.2 During the operational life of the landfill monitoring and sampling of landfill gas within the monitoring points installed by virtue of conditions 2.5.1 and 2.5.2 shall be carried out and recorded in accordance with the following monitoring programme in the table in condition 5.1.3 of the licence.

- 5.1.3 Monitoring and sampling of landfill gas shall be carried out and recorded in accordance with the monitoring program specified in the table below.

Table 5.1.3 Standards for landfill gas monitoring and sampling programme (external to the site)			
Determinands	Monitoring Frequencies	Units and Accuracies	Trigger Levels
Methane	Minimum frequency once per month. Once per week for 12 weeks prior to start of operations* Once per week for first 6 weeks of operations.	0.01% v/v	To be agreed
Carbon dioxide	Minimum frequency once per month. Once per week for 12 weeks prior to start of operations* Once per week for first 6 weeks of operations.	0.01% v/v	To be agreed
Oxygen	Minimum frequency once per month. Once per week for 12 weeks prior to start of operations* Once per week for first 6 weeks of operations.	0.01% v/v	
Temperature	Minimum frequency once per month. Once per week for 12 weeks prior to start of operations* Once per week for first 6 weeks of operations.		
Differential pressure	Minimum frequency once per 3 months. Three readings for 12 weeks prior to start of operations* Two readings for first 6 weeks of operations.		
Atmospheric pressure	Minimum frequency once per month. Once per week for 12 weeks prior to start of operations* Once per week for first 6 weeks of operations.		
* Applies only to those monitoring points installed by virtue of conditions 2.5.2 and 2.5.3.			

Keeping and maintenance of records:

- 5.1.4 A record of all landfill gas monitoring and sampling results shall be kept and maintained in the following format:
- a** paper copies;
 - b** results of measurements/sample analyses, with error limits;
 - c** interpretation and review of results;
 - d** validation of accuracy and validity of results, by designated person.

Submission of records:

- 5.1.5 A copy of the quality assured records of each monitoring and sampling result shall be submitted to the Agency within 1 month of its being carried out.

Landfill gas generation action plan

- 5.1.6 No waste shall be deposited until trigger levels for the presence of carbon dioxide and methane have been agreed with the Agency. A landfill gas monitoring action plan specifying the steps to be taken in the event that landfill gas trigger levels are exceeded shall be submitted to the Agency within three months of the date of issue of this licence.

In the event that any results exceed the trigger levels specified above:

- a the results shall be notified to the Agency immediately and confirmed in writing immediately;
- b the landfill gas generation action plan shall be implemented immediately.

5.2 **Leachate groundwater and surface monitoring and reporting**

Leachate monitoring points - locations

- 5.2.1 The monitoring points installed for the monitoring of landfill gas within the waste shall be constructed in such a manner as to permit the sampling of water/leachate which may collect in the base of the site as specified in section 4.8.2 of the working plan.
- 5.2.2 The level of water/leachate in these points shall be measured monthly. If water/leachate are present a sample shall be taken from this point at monthly intervals and analysed in accordance with the table in Appendix 1.

Groundwater monitoring locations and schedules

- 5.2.3 Unless otherwise agreed in writing with the Agency at least 3 groundwater monitoring points to enable the sampling of the shallow perched groundwater table shall be installed, one upstream of the site and two downstream. At least one monitoring point shall be sited between the site and the Cors Goch SSSI.

Construction quality assurance of groundwater monitoring points.

- 5.2.4 Prior to the installation of the groundwater monitoring points
- a a Construction Plan covering construction details and proposed positioning of the groundwater monitoring points shall be submitted in writing to the Agency and the Agency shall have given its written consent to it;
 - b details of the identities, relevant experience and relevant qualifications of the personnel who will be providing Quality Assurance of the construction shall be submitted in writing to the Agency and acknowledged in writing by the Agency;
 - c the groundwater monitoring points shall be constructed and recorded in accordance with the Construction Plan;
 - d changes to the Construction Plan shall not be implemented unless they have been notified in writing to the Agency, and the Agency has given its written consent to those changes;
 - e within 1 month following completion of the construction of the groundwater monitoring points a Validation Report shall be submitted in writing to the Agency.

At least one monitoring point to enable the sampling of the shallow perched groundwater table shall be installed between the site and the Cors Goch SSSI.

The level of water in this point shall be measured monthly. If water is present a sample shall be taken from this point at monthly intervals and analysed in accordance with the table in Appendix 1.

Surface water monitoring locations and schedules

- 5.2.5 Surface water monitoring points shall be identified to enable monitoring of the quality of surface water in the vicinity of the site, as specified in section 4.8.6 of the working plan.

Monitoring and sampling of surface water external to the site shall be carried out and recorded in accordance with the monitoring programme specified in Appendix 1.

Monitoring and sampling records

Keeping and maintenance of records

- 5.2.6 A record of the leachate groundwater and surface water monitoring and sampling results shall be kept and maintained in the following format:

- a** paper copies;
- b** results of measurements/sample analyses, with error limits;
- c** interpretation and review of results against baseline data;
- d** validation of accuracy and validity of results, by designated person.

Submission of records

- 5.2.7 A copy of the validated records of each monitoring and sampling result, with an interpretation of the results against trigger levels, shall be submitted to the Agency on a monthly basis, within 1 month of its being carried out.

Baseline monitoring results

- 5.2.8 No wastes shall be deposited until the results of background monitoring of ground and surface waters along with suggested trigger levels for the range of parameters in the table in Appendix 1 and covering a period of two consecutive months prior to the programmed date for commencing deposit of waste, have been submitted to the Agency and their receipt has been acknowledged in writing by the Agency.

Water environment action plan

- 5.2.9 Within three months of the date of issue of this licence a water environment action plan shall be submitted to the Agency. This plan shall specify the steps and remedial measures, which shall be instigated if the trigger levels are exceeded in ground or surface waters.

In the event that any results exceed the trigger levels acknowledged in accordance with condition 5.2.8 and as specified in the table in Appendix 1 the following steps will be taken:

- a** the results shall be notified to the Agency immediately and confirmed in writing within three working days;
- b** the water environment action plan shall be implemented immediately.

6 Amenity monitoring and control

6.1 Control, monitoring and reporting of dusts, fibres and particulates

Prevention of releases of dusts, fibres and particulates

- 6.1.1 Measures shall be implemented and maintained throughout the operational life of the site; in accordance with this condition and section 4.6 of the working plan, to prevent and minimise the release of airborne dusts, fibres and particulates arising from the site beyond the site boundary.

Control of releases of dusts, fibres and particulates

- 6.1.2 All emissions to air from the specified waste management operations on the site shall be free from visible concentrations of dusts, fibres or particulates as are likely to cause pollution of the environment outside the site boundary.

In the event that any dusts, fibres or particulates arising from the site are released or are likely to be released outside the site boundary in such quantities or concentrations that they are likely to cause pollution of the environment, the actions specified in section 4.6 of the working plan shall be implemented immediately.

6.2 Control of odours

Prevention of odours

- 6.2.1 Measures shall be implemented throughout the operational life of the site, in accordance with this condition and section 4.7.2 of the working plan, to prevent and minimise the release of offensive odours from the site beyond the site boundary.

Control of odours

- 6.2.2 All emissions to air from the specified waste management operations on the site shall be free from offensive odours outside the site boundary, as perceived by an authorised officer of the Agency.
- 6.2.3 In the event that any offensive odours arising from the site are released or are likely to be released the actions specified in section 4.7.2 of the working plan shall be implemented immediately.

6.3 Control of noise

- 6.3.1 Measures shall be implemented throughout the operational life of the site, in accordance with this condition and section 4.7.1 of the working plan, to control and minimise the levels of noise from the site beyond the site boundary.

6.4 Control of pests

Prevention of pest infestations arising on the site

- 6.4.1 Measures shall be taken, in accordance with this condition and section 4.7.3 of the working plan, throughout the operational life of the site, to prevent pest infestations arising on the site.

Monitoring and control of pests

- 6.4.2 The site shall be inspected for evidence of pest infestations by a competent person at least weekly. In the event of any evidence of pest infestations being found, measures as specified in the 4.7.3 of the working plan shall be taken immediately to control and eliminate those pests.

6.5 **Control of birds and other scavengers**

Prevention and control of birds and other scavengers

- 6.5.1 Measures shall be taken, in accordance with this condition and section 4.7.3 of the working plan, throughout the operational life of the site, to prevent birds with a propensity to scavenge and other scavengers from outside the site gathering on operational areas or scavenging wastes.

6.6 **Control of litter**

- 6.6.1 Litter control and collection measures shall be implemented in accordance with this condition and section 4.7.5 of the working plan, throughout the operational life of the site, such that any free litter within the site is collected, so as to prevent any litter escaping from the confines of the site.
- 6.6.2 In the event that litter does escape from the site, it shall be retrieved immediately.

7 Site records

7.1 Security and availability of records

- 7.1.1 All records which are required to be made under the other conditions of this licence and the working plan shall be maintained and kept secure from loss, damage or deterioration, and shall be kept at the locations and in the manner specified in section 2.4.1 of the working plan.

Security of storage medium and data

- 7.1.2 Records which are required to be made under the other conditions of this licence and the working plan shall be made available for inspection at the place where they are kept immediately when required by an authorised officer of the Agency.

7.2 Records of waste movements

Recording of wastes accepted and removed

- 7.2.1 A record shall be kept of all wastes received and of all materials (wastes and recovered materials) removed from the site. The records shall include the following for each vehicle load of waste/material.

for waste received:

- a origin of waste;
- b date received;
- c quantities in tonnes received and waste type as specified in condition 1.2.2;
- d nature of the waste (solid, liquid or sludge);

for waste/material removed:

- a date removed;
- b quantities in tonnes removed and waste and/or material type;
- c destination of waste and/or materials removed;
- d nature of the waste and/or materials (solid, liquid or sludge)

Summary records of wastes accepted and removed

- 7.2.2 A summary of the information, including nil returns shall be submitted to the Agency, in a format required by the Agency. Summaries shall be for each quarter of the financial year and shall be submitted to the Agency within one month of the end of each quarter.

7.3 Site diary

- 7.3.1 A site diary shall be kept secure and shall be available for inspection at the site when required by an authorised officer of the Agency. This shall include a record of the events specified in section 4.2 of the working plan.
- 7.3.2 Each record shall be completed within 24 hours of the relevant event.

Interpretation

In these conditions and their interpretation, unless the context otherwise requires, the following terms have the specified meanings:

"accepted"

for waste being delivered to the site, shall mean accepted as waste input to the site for storage and/or processing and/or disposal under the specified waste management operations;

"authorised officer of the Agency"

means any person(s) authorised in writing by the Agency pursuant to section 108(1) of the 1995 Act to exercise any of the powers specified in subsection (4) of that section;

"clinical waste"

has the meaning as defined in regulation 1(2) of the Controlled Waste Regulations 1992 or any statutory provisions amending or replacing them;

"consequences"

for **risk assessments** carried out within these conditions, means the adverse effects of harm as a result of realising a **hazard** which cause the quality of human health (other than health and safety of site staff or visitors to the site covered under the Health and Safety at Work Act 1974) or the environment to be impaired in the short or longer term;

"engineer"

for engineering works specified in these conditions, means a person who works in the relevant branch of engineering, as a qualified professional;

"engineered"

for works specified in these conditions, means carried out and completed using the relevant engineering process specified in these conditions;

"engineered landfill containment system"

means all elements (other than leachate and landfill gas management systems, and intermediate and final caps), relating to engineered liners for final disposal to land, and incorporating liners for individual cells and the site as a whole, and including methods of liner protection and leakage detection;

"engineered site containment and drainage system"

means all elements relating to engineered containment of activities on the site, other than final disposal to land, and incorporating site surfacing, bunding and drainage systems, buildings and fixed tanks;

"engineering"

for engineering works specified in these conditions, means the relevant process of design, construction or installation, quality assurance or validation or commissioning specified in these conditions;

"engineering survey"

means a survey carried out in accordance with recognised or approved standards by a suitably qualified competent person;

"environmental targets or receptors"

for **risk assessments** carried out within these conditions, shall mean identified human and environmental populations or components, as specified in these conditions or otherwise agreed by the Agency within these conditions;

"groundwater"

means any water contained in underground strata;

"hazard"

means a property or situation that in particular circumstances could lead to harm;

"immediately"

for carrying out of actions under the conditions, shall mean without delay and within a reasonable time, taking into account any more immediate direct action necessary to prevent or minimise risk to human health and the environment. For carrying out notifications to the Agency, shall also mean by the fastest effective means available (for example, telephone) and confirmed in writing within 1 working day (or such other time as may be agreed by the Agency within the conditions);

"inert waste"

means waste which when disposed of in or on land does not undergo any significant physical, chemical or biological transformation;

"landfill gas management system"

means all elements relating to landfill gas extraction from individual landfill cells and the landfill mass as a whole, and incorporating methods of landfill gas drainage, containment and the subsequent disposal system, whether it be a methane oxidation system, landfill gas flare, landfill gas engine(s) or otherwise, either on or off the site;

"leachate management system"

means all elements relating to leachate extraction from individual landfill cells and the landfill mass as a whole, and incorporating methods of leachate drainage, containment and the subsequent treatment and/or disposal system, either on or off the site;

"maintenance"

for engineering maintenance specified in these conditions, means the process of inspection, testing, repair of the relevant engineering works specified in these conditions;

"preparatory works"

means engineering works required prior to the carrying out of the activities authorised by this licence;

"probability"

means the quantified expression of chance, denoted either as:
the ratio or percentage of the occurrence of a particular event as one among a number of possible events;
or as the frequency of occurrence of a particular event in a given period of time;

"received"

for waste being delivered to the site, shall mean delivered to the site and undergoing the waste acceptance procedures specified in the working plan, including storage of those wastes during those procedures prior to acceptance of the waste;

"release pathways"

for **risk assessments** carried out within these conditions, shall mean the routes by which defined **hazards** may potentially realise their **consequences**, defined in terms of releases or emissions from the site that go beyond the site containment or boundary via one or more of the following routes, either directly or indirectly: **Land; Groundwater; Surface water; Atmosphere;**

"relevant offences"

are offences within the meaning of regulation 3 of the Waste Management Licensing Regulations 1994 or any statutory provisions or regulations amending or replacing them;

"risk"

means a combination of the **probability** and **consequences** of occurrence of a defined **hazard**;

"risk assessment"

means the systematic identification, analysis, estimation and evaluation within a defined **scope** of the defined **risks** of a particular activity, operation, process or design, carried out and reported by suitably qualified or competent persons, using recognised quantified or semi-quantified methods and techniques.

Unless otherwise agreed by the Agency within these conditions, a risk assessment shall include and record the following:

definition of the **hazards** associated with an activity, operation, process or design;

assessment of the **probability** of those **hazards** occurring;

determination of the potential **consequences** of those hazards for defined **environmental targets or receptors**, taking into account defined **release pathways** and defined protective measures;

evaluation of the potential **magnitude** of those consequences and the **probability** of their occurrence;

"scope of risk assessment"

means the boundaries of the **risk assessment** and the **risks** to be assessed within those boundaries, as defined in the conditions or otherwise agreed by the Agency within the conditions;

"special waste"

has the meaning as defined by regulation 2 of the Special Waste Regulations 1996 or any statutory provisions or regulations amending or replacing them;

"specified waste management operations"

means the waste management operations authorised by condition 1.1 of this licence;

"surface water management system"

means all elements relating to collection of rain water or surface water from individual landfill phases and the landfill site as a whole, and incorporating methods of water collection, containment and the subsequent treatment and/or disposal system, either on or off the site;

"surface water"

means any lake, pond, river or watercourse whether natural or artificial;

"the 1994 Regulations"

means the Waste Management Licensing Regulations 1994 and any statutory provisions or regulations amending or replacing them;

"the Agency"

means the Environment Agency;

"the Licence Holder"

means the Licence Holder specified in this licence or other person to whom the licence has been transferred in accordance with section 40 of the Environmental Protection Act 1990;

"the operator"

means a person who is in occupation of the site and has responsibility for carrying out day to day activities at the site;

"the site"

means the land, structures, plant and equipment to which this licence relates;

"time periods, e.g. annually, quarterly, monthly, per year, etc. "

where periods are referred to in conditions, they shall be calculated in the following way:

annually or per year: 1 April to 31 March;

quarterly: 1 April to 30 June, 1 July to 30 September, 1 October to 31 December, 1 January to 31 March;

monthly: calendar month;

weekly: Monday to Sunday.

Where the issue of the licence does not coincide with the start of any of these periods, then any relevant limits for the first period shall apply pro rata;

"waste"

means controlled waste as defined in section 75(4) of the 1990 Act and the Controlled Waste Regulations 1992 or any statutory provisions or regulations amending or replacing them;

"working plan"

means the working plan identified in writing by the Agency at the time of issue of this licence and any subsequent amendments to it made in accordance with the conditions of this licence.

APPENDIX 1

Table 1. Monitoring frequencies and determinands for the analysis of water and leachate samples

Determinands	Monitoring frequencies	Units and accuracy	Trigger levels
Water level	Weekly for first 4 weeks, then monthly (and quarterly)		
pH	Weekly for first 4 weeks, then monthly (and quarterly)		
Temperature	Weekly for first 4 weeks, then monthly (and quarterly)		
Electrical conductivity	Weekly for first 4 weeks, then monthly (and quarterly)		
Dissolved oxygen	Weekly for first 4 weeks, then monthly (and quarterly)		
Ammoniacal nitrogen	Weekly for first 4 weeks, then monthly (and quarterly)		
Chlorides	Weekly for first 4 weeks, then monthly (and quarterly)		
Sulphates	Quarterly		
Total alkalinity (as CaCO ₃ at pH 4.5)	Quarterly		
Total oxidised nitrogen	Quarterly		
Total organic carbon	Quarterly		
Na	Quarterly		
K	Quarterly		
Ca	Quarterly		
Mg	Quarterly		
Fe	Quarterly		
Mn	Quarterly		
Cd	Quarterly		
Cr	Quarterly		
Cu	Quarterly		
Ni	Quarterly		
Pb	Quarterly		
Zn	Quarterly		

EXPLANATORY NOTES

Appeals

If a licence holder is aggrieved by the decision of the Environment Agency to grant a waste management licence subject to conditions he may appeal to the National Assembly for Wales in accordance with Section 43 of the Environmental Protection Act 1990.

Notice of an Appeal must be given within 6 months of the date of issue of this licence. The National Assembly for Wales has power to allow a longer period for the giving of notice of an appeal but it will not normally be prepared to exercise this power unless there are special circumstances that excuse the delay in giving notice of an appeal.

A copy of the form on which notice of an Appeal may be given is available from:-

National Assembly for Wales
Cathays Park
Cardiff
CF10 3NQ

Waste Management Licensing

This licence relates only to the requirements of the Environmental Protection Act 1990 in respect of the deposit, treatment, keeping and disposal of waste. This licence does not constitute a consent required by any other legislation.

Your attention is drawn to the provisions of Sections 33 to 35, 37 to 43, 59 and 64 to 66 of the Environmental Protection Act 1990.

Section 33

Prohibits under penalty the deposit, treatment, keeping or disposal of controlled waste in or on any land otherwise than in accordance with the terms of a Waste Management Licence.

Non-compliance with any licence condition may lead to prosecution under this Section. A person who contravenes Section 33 subsection (1) shall, subject to subsection (7), be guilty of an offence and liable on summary conviction to imprisonment for a term not exceeding 6 months or a fine not exceeding £20,000 (at the date of issue of this licence) or both, or on conviction on indictment to imprisonment for a term not exceeding 2 years or a fine or both, or in relation to special waste for a term not exceeding 5 years or a fine or both.

Section 34

Places a duty of care on any person who imports, produces, carries, keeps, treats or disposes of controlled waste to take all such measures applicable to him as are reasonable in the circumstances to prevent any other person contravening Section 33, and to prevent the escape of waste from his control or that of any other person and, on the transfer of the waste, to ensure that it is only to an authorised person, or to a person for authorised transport purposes, and that a written description is transferred with it.

A person who contravenes Section 34 subsection (1) shall be guilty of an offence and liable on summary conviction to a fine not exceeding £5,000 (at the date of issue of this licence) or on conviction on indictment to a fine.

Section 35

A site licence may be granted by the Environment Agency authorising the treatment, keeping, or disposal of specified wastes on specified land, to the occupier of that land. The licence may be granted subject to such conditions that the Agency considers appropriate, in accordance with directions and guidance issued by the National Assembly for Wales.

Section 37

The Environment Agency may modify the conditions of a licence on its own initiative, on the application of the licence holder (accompanied by the appropriate fee), and on the direction of the National Assembly for Wales. The licence holder may appeal to the National Assembly for Wales if he is aggrieved by the decision of the Environment Agency in modifying the conditions of a licence.

Section 38

Provides for the Environment Agency to revoke or suspend all or part of a licence if the licence holder has ceased to be a 'fit and proper person' or activities authorised by the licence have caused or are about to cause pollution of the environment or harm to human health or become seriously detrimental to the amenities of the locality, and the pollution, harm or detriment cannot be avoided by modifying the conditions.

A person who contravenes Section 38 subsection (9) without reasonable excuse shall be guilty of an offence and liable on summary conviction to a fine not exceeding £5,000 (at the date of issue of this licence), or on conviction on indictment to imprisonment for a term not exceeding 2 years or a fine or both, or in relation to special waste to, respectively imprisonment for a term not exceeding 6 months or a fine of an amount not exceeding £5,000 (at the date of issue of this licence), or imprisonment for a term not exceeding 5 years or a fine or both.

Section 39

If the licence holder wishes to surrender this licence, he must apply to the Environment Agency (enclosing the prescribed fee) which will only accept the surrender if it is satisfied that the condition of the land is such that it is unlikely to cause pollution of the environment or harm to human health as a result of the use of the land for the treatment, keeping or disposal of waste.

Section 40

If the licence holder wishes to transfer the licence to another person ("the transferee") the licence holder and the transferee shall jointly make an application to the Environment Agency (enclosing the prescribed fee) which will not effect the transfer unless it is satisfied that the transferee is a Fit and Proper Person.

Section 41

Provides for a scheme of charges which are payable in respect of the subsistence of the licence and, on application, for modification, transfer or surrender of the licence. Non payment of the subsistence charge may lead to partial revocation of the licence.

Section 42

Places a duty on the Environment Agency to ensure that activities authorised by the licence do not cause pollution, harm to health, or serious detriment to the amenities of the locality, and that the conditions of the licence are complied with. If it appears to the Environment Agency that a condition in a licence is not being complied with, the Environment Agency may serve notice on the licence holder to comply with the condition, and if he fails to do so revoke or suspend all or part of the licence.

Section 43

Provides for the applicant for a licence or modification to appeal against all or any of the conditions in a licence or modification to the National Assembly for Wales, or in certain circumstances, for a licence holder to appeal against any revocation or suspension of all or any part of a licence or modification to the National Assembly for Wales.

Section 59

The Environment Agency is empowered to require the removal of any controlled waste deposited in breach of section 33(1), or to require the undertaking of such works as are required to reduce or eliminate the consequences of such deposits.

Section 64

The Environment Agency is required to maintain a register of current or recently current waste management licences granted by the Environment Agency, associated Working Plans, and matters relating to the transfer, modification, revocation, suspension and supervision of licences. Members of the public have free access to this register and may obtain copies of entries in the register.

Section 65

The National Assembly for Wales may direct the Environment Agency to exclude certain information from the public register in the interests of national security.

Section 66

Provides for a licence holder to identify information submitted to the Environment Agency as being commercially confidential and to apply for that information to be excluded from the public register. The Environment Agency will determine whether the information is commercial confidential and notify the licence holder accordingly. The licence holder has a right of appeal to the National Assembly for Wales if the Environment Agency refuses to exclude the information from the public register.

RIGHTS OF APPEAL

Section 43(1) of the Environmental Protection Act 1990 provides that:

Where, except in pursuance of a direction given by the National Assembly for Wales,

- a** an application for a licence or a modification of the conditions to the licence is rejected
- b** a licence is granted subject to conditions

the applicant may appeal from the decision to the National Assembly for Wales

Therefore if you feel aggrieved by the decision or any of the conditions to the licence as granted you may obtain the appropriate form on which to give notice of an appeal from:-

National Assembly for Wales
Cathays Park
Cardiff
CF10 3NQ

This notice of appeal should be accompanied by the following information: a copy of the licence; a copy of any correspondence relevant to the appeal; a copy of any other document relevant to the appeal including, in particular, any relevant consent, determination, notice, planning permission, established use certificate or certificate of lawful use or development; and a statement indicating whether you wish the appeal to be in the form of a hearing or on the basis of written representations. You are also required to serve a copy of your notice of appeal, together with copies of any of the above documents that have accompanied your notice of appeal, on the Environment Agency (at the address overleaf). You should appeal within 6 months of the date that this notice takes effect but the National Assembly for Wales may allow notice of appeal to be given after the expiry of this time period.