ENVIRONMENT AGENCY

ENVIRONMENTAL PROTECTION ACT 1990
WASTE MANAGEMENT LICENCE

LICENCE REF No :- T/W/54/12/4/442 **FACILITY TYPE :- LANDFILL**

The Environment Agency, in pursuance of Part II of the Environmental Protection Act 1990, hereby grant a waste management licence authorising the deposit of controlled waste on the land specified in Schedule 1 to this licence to **John Mould at Hyde Crete Pit, Pingewood Road North, Reading, Berkshire, RG30 3XN** those persons being in occupation of the said land, the said licence being subject to the conditions specified in Schedule 3 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 **Reading Quarry, Berry's Lane, Pingewood, Reading, Berkshire** (hereinafter called "the site") shown edged red on Drawing Reference Number **R28/249C** and attached to this licence.

Signed.....R Sheppard..... **Name**.....R SHEPPARD.....
(Area Waste Regulation Manager - Thames West)

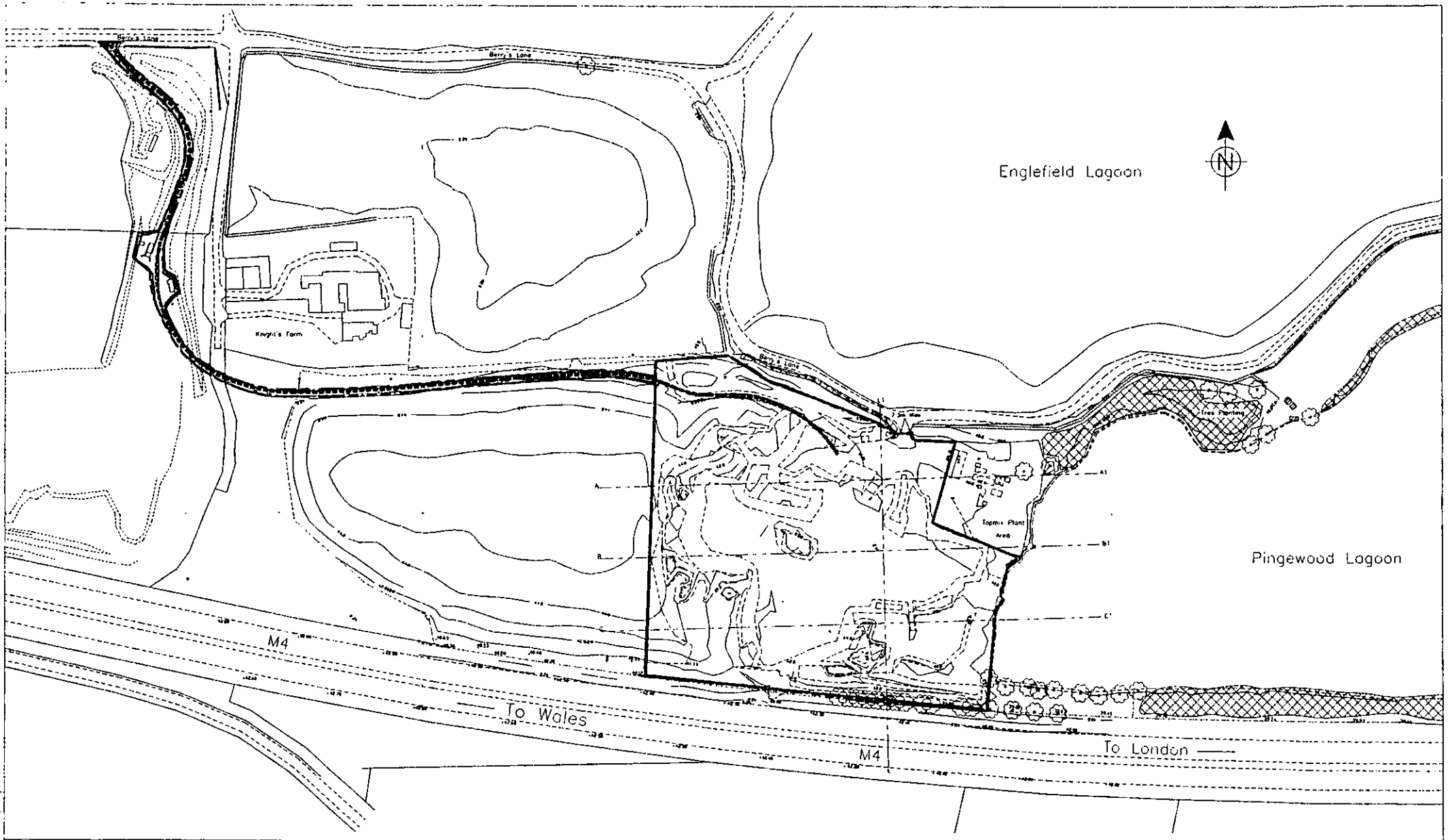
Dated.....21 October 1997.....

FOR ENVIRONMENT AGENCY USE

OUTGOING-1

PERMIT

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



Application Area

Cross - Sections

Long - Section

Existing Tree Planting

Access

TARMAC

Tarmac Roadstone Southern Ltd
2 Old Bath Road Newbury
Berkshire RG14 1AJ Tel Fax (01635)35755

Location
Reading

Title
Topographical Survey

Drawn by	Scale
S.G	1:1250
Date: June 1996	Drg No: R28/249C

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SCHEDULE 2 - INTERPRETATION

the 1990 Act	the Environmental Protection Act 1990
the 1995 Act	the Environment Act 1995
the Agency	The Environment Agency

the Agency's emergency telephone number - 0800 80 70 60 or such other number as from time to time is notified to the holder

Authorised officer	means any person authorised in writing by the Agency pursuant to section 108(1) of the 1995 Act to exercise the powers specified in Section 108(4) of that Act.
Clinical waste	as defined in regulation 1(2) of the Controlled Waste Regulations 1992 (S.I. 1992 No.588) or any statutory provisions or regulations amending or replacing them.

the Condition of this licence - the conditions set out herein, as varied from time to time under section 37 of the 1990 Act and section 120 of the 1995 Act.

Controlled waste	as defined in section 75(4) of the 1990 Act and regulation 7A of the Controlled Waste Regulations amending or replacing them.
Emergency	means a situation in which a person has reasonable cause to believe that circumstances are likely to endanger life or health or cause damage to property or pollution of water or could be seriously detrimental to the amenities of the locality.
the holder	the licence holder specified in this licence or other person to whom the licence has been transferred in accordance with section 40 of the 1990 Act and section 120 of the 1995 Act.
Hours of Darkness	are defined by statutory lighting up times published by the Science Engineering Research Council.
Operator	means the person/company who is in occupation of the site and is responsible for carrying out day to day activities at the site.

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SCHEDULE 2 - INTERPRETATION (CONTINUED)

Relevant offences	within the meaning of regulation 3 of the Waste Management Licensing Regulations 1994 (S.I. 1994 No.1056) or any statutory provisions or regulations amending replacing them.
the site	the land, structures, plant and equipment to which this licence relates.
the site plan	the drawing referred to in Schedule 1 of this licence.
Special waste	as defined by regulation 2 of the Special Waste Regulations 1996 (S.I. No 972) or any statutory provisions or regulations amending or replacing them.

Technically competent person - within the meaning of regulation 4 and 5 of the Waste Management Licensing Regulations 1994 (S.I. 1994 No. 1056) or any statutory provisions or regulations amending or replacing them.

Working Plan	the documents and drawings detailing the intending methods of operations for this licence and any later drawings or written statements received by the Agency in substitution or augmentation of such drawings or documents subject to individual changes having been agreed by the Agency where this licence so requires.

These definitions apply only for the purpose of this licence in the interest of ensuring clarity.

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SCHEDULE 3

CONDITIONS RELATING TO THIS LICENCE

CONDITION 1: TYPE AND QUANTITY OF WASTE

1.1 For the purpose of this licence only Industrial Wastes as defined in Section 75 of the Environmental Protection Act 1990 and in Schedule 3 of the Controlled Waste Regulations 1992 derived from works of construction or demolition including waste arising from work preparatory thereto and consisting of the waste materials listed under Type A below, shall be accepted at the site for landfill disposal:

TYPE A

Solid materials which either do not degrade or degrade very slowly. They may include materials from the following list:

Brickwork and Mortar
Clay
Concrete (reacted) without steel reinforcement
Flint and Stone
Glass, Pottery and China
Gravel
Naturally occurring rocks and soils (excluding asbestos and radioactive sources)
Sand
Silica
Topsoil
Subsoil

Exclusions:

1) Materials with a pH outside the range of 6 - 8 inclusive.

2) Wastes containing concentrations of substances more than those shown in the Annex.

3) Wastes containing substances in concentrations that may result in the waste being likely to cause pollution of the environment, harm to human health, or serious detriment to the amenities of the locality.

4) Special Waste as defined by Regulations in force under Section 62 of the Environmental Protection Act 1990

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5) Any category or type of controlled waste not specified above, especially Household, Commercial and Difficult Waste.

6) Any clinical waste.

7) Any liquid waste.

8) Any waste with a flash point below 40° C.

9) Any waste which either in itself or in conjunction with any other material already deposited is likely to give rise to danger by fire or explosion or by the release of dangerous fumes or gases.

1.2 The daily intake of waste for landfill disposal shall not exceed 800 tonnes.

1.3 The maximum quantity of waste to be landfilled at the site shall not exceed 74,000 tonnes in any financial year. "Financial year" means the twelve months ending on 31 March.

CONDITION 2: WORKING PLAN

2.1 Except where the conditions of this licence require otherwise, the site shall be operated in accordance with the details shown in the Statement of Intent and Drawings which accompanied the licence application and collectively shall be referred to as the Working Plan.

2.2 Proposed changes to the Working Plan shall be approved in writing by the Environment Agency and the date for implementation of the changes shall be specified.

2.3 The Drawings and Statement of Intent shall be updated to show each approved change to the Working Plan. Two copies of each revision shall be forwarded to the Environment Agency within one month of the date of implementation of the approved change.

2.4 A plan showing details of the progress of landfill operations on the first day of October during each year of the life of the site shall be forwarded to the Environment Agency within three weeks of the above date.

CONDITION 3: SITE PREPARATION AND DEVELOPMENT WORKS

3.1 The licence holder shall notify the Environment Agency in writing before the commencement of the authorised activities specified in Condition 1 or the preparatory works specified in Condition 3 for the purpose of subsistence charges.

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3.2 The existing lockable security gates shall be retained and maintained at the entrance to the site. Fencing shall be provided and maintained around the perimeter of the site as detailed in the Working Plan with particular increased security fencing at the boundary with the Topmix Plant area. All reasonable precautions shall be taken to prevent unauthorised access to the site particularly from the existing Topmix entrance.

3.3 The existing approved road surface between Berry's Lane and the wheel cleaning facility shall be retained and maintained in a good condition to prevent the accumulation of mud or water.

3.4 The existing wheel cleaning facilities shall be retained in the position shown in the Working Plan. The wheel cleaning facility shall be maintained in good working order.

3.5 No deposit of waste shall take place until a site control office equipped with a radio or telephone link has been provided as detailed in the Working Plan

3.6 No deposit of waste shall take place until toilet and washing facilities have been provided as detailed in the Working Plan

3.7 No deposit of waste shall take place until an access road from the wheel cleaning facility to the tipping area has been constructed of hardcore or other suitable material. The access road is to be maintained in a good condition to prevent the accumulation of mud or water and be capable of being swept by a mechanical sweeper.

3.8 No deposit of waste shall take place until subsidiary site roads of hardcore or other suitable material have been provided to get from the access road to the working face in all weathers

3.9 No deposit of waste shall take place until a site identification board of dimensions approved by the Environment Agency is displayed at the site entrance. It shall be constructed of durable material and finish and state the following:

a) The name of the site.

b) The name, telephone number and address of the site operator.

c) The name, telephone number and address of the licence holder.

d) The name, telephone number and address of the Environment Agency.

e) The times of opening and closing of the facility.

f) Emergency telephone number(s).

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3.10 No deposit of waste shall take place until any storage tanks or drums containing liquid, other than clean water, shall be contained within a suitable impervious bunded area(s) designed to hold at least 110% of the largest container within it. Any fill or draw pipes shall be sited within the bunded area such that spillages are contained and shall be locked shut when not in use. No drainage outlet shall be provided from the bund and any vent pipe shall be directed downwards into the bund.

3.11 No deposit of waste shall take place other than during daylight hours unless suitable lighting is provided

3.12 No deposit of waste shall take place within any part of the licensed area until that area has been dewatered and any discharge to a watercourse shall only be carried out with a discharge consent issued by the Environment Agency. The scheme of dewatering shall be detailed in the Working Plan.

3.13 No deposit of waste shall take place until groundwater monitoring boreholes have been installed as shown in the Working Plan and adequate background conditions established. This shall consist of at least two sets of readings of quarterly samples analysed for the determinands shown in Table C.2 of Waste Management Paper No.4.

CONDITION 4: SITE OPERATION

GENERAL

4.1 The financial provision for meeting the obligations under the conditions of this Licence and the terms of the Working Plan 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 Environment Agency.

4.2 Emergency circumstances excepted, of which due report shall be made to the Environment Agency within 72 hours, the depositing of waste and all other operations on site shall only be carried out within the following hours:

07.00 and 18.00 hours Mondays to Fridays
07.00 and 13.00 hours Saturdays

and no such operations shall be carried out on Sundays, Bank or Public Holidays.

4.3 The site shall be manned by at least two operatives at all times when open for the acceptance of waste, unless due to changes in working practice, the number of operatives is reduced following the prior agreement of the Environment Agency.

4.4 The operatives shall include a site supervisor who shall be responsible for the control of all site operations including the movement of vehicles, depositing and levelling of waste on site and be confirmed as technically competent by the Environment Agency and any departure from site shall be within 60 minutes travelling time of the site to enable a return to site if necessary.

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4.5 A list of technically competent persons (Regulation 4, Waste Management Licensing Regulations 1994) who are involved in management of the site shall be shown in the Working Plan and kept regularly updated.

4.6 In the event that the licence holder being convicted of a relevant offence (Regulation 3, Waste Management Licensing Regulations 1994) the Environment Agency shall be notified immediately.

4.7 All waste entering the facility shall be inspected prior to deposit and immediately after deposit to ensure it complies with the provisions of this licence.

4.8 Contaminated soils falling outside the parameters shown in the Annex shall not be accepted at the facility nor soils that have come from or are suspected to have come from contaminated sites or are of an unusual colour, texture, smell, temperature or are abnormally wet.

4.9 No waste materials shall be burnt within the boundary of the site and fires on site shall be treated as emergencies and immediate action shall be taken to extinguish them.

4.10 The security gates at the entrance shall be kept securely locked closed when operations are not being carried out at the facility.

4.11 The security gates and fencing (Condition 3.2) shall be regularly inspected and maintained and any damaged section repaired or replaced without delay or within fourteen days if so requested by an authorised officer of the Environment Agency to maintain the security of the site at all times when the facility is closed.

4.12 The access road and all surfaces over which vehicles and machinery are requested to operate, shall be maintained in good repair and any damage made good without undue delay, or within fourteen days if so requested by an authorised officer of the Environment Agency.

4.13 The site shall be operated to minimise the carriage of mud or other debris onto the public highway. The wheel cleaning equipment shall be inspected daily and maintained in full working order. Any damage shall be repaired without undue delay or within 14 days if so requested by an authorised officer of the Environment Agency. If mud or other debris is carried out onto the public highway, it shall be removed with the minimum of delay, using the mechanical sweeper as specified in the Working Pan. The access road from the highway to the wheel cleaning facility shall be inspected and cleaned as necessary during and at the end of each working day.

4.14 All vehicles importing waste into the site shall report to the site control office before discharging their load.

4.15 Machinery and equipment used for the waste handling and environmental control as specified in the Working Plan, shall be fitted with efficient silencers and maintained in good working order.

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4.16 In the event of breakdown in plant or equipment, repair or replacement shall be made available to ensure that at all times the site is operated to the standards required by the site licence conditions. The date and time of any breakdowns shall be recorded in a book kept at the site office. Should repair or replacement of the levelling and compacting machine not be available before the end of the working day on which the breakdown occurs, the site shall cease to accept waste for landfill disposal until such compacting machinery is operational.

4.17 All reasonable precautions shall be taken to minimise the emission of dust, noise and offensive smells from all aspects of the waste disposal operations at the site. The operations shall include provisions for the compliance with legislation relating to noise.

4.18 In dry weather site roads shall be sprayed with water to suppress dust except that if the water is obtained from the public supply water mains and the Thames Water PLC rule that a drought exists, this requirement shall be suspended for the duration of the drought.

4.19 Arrangements shall be made and equipment provided to contain, collect and clear spillage of waste anywhere within the facility. All necessary steps shall be taken to prevent liquid being discharged from the facility and pollution of land, watercourses and underground strata occurring.

4.20 Emergency or exceptional circumstances excepted, waste accepted for disposal at the site shall not be temporarily stored in skips or other such containers.

4.21 A record shall be kept of each consignment of waste delivered to the facility in a form prescribed by the Environment Agency. The record shall include as a minimum the waste category, waste weight, carriers name, vehicle registration number and the source of the waste by District for Shire counties or Borough for Metropolitan councils. Site records shall be made available to the Environment Agency staff authorised to enter the site. If the waste is not weighed the weight shall be calculated using conversion factors agreed with the Environment Agency

4.22 A monthly summary of waste delivered to the facility shall be returned to the Environment Agency by the 15th day of the following month. The return shall provide the waste input recorded daily and a monthly total by source (District or Borough) for Type A waste.

4.23 Any leachate or contaminated water arising from the site shall be treated or disposed of to the satisfaction of the Environment Agency.

4.24 Landfill gas monitoring shall be carried out within completed areas of infilling and outside the landfill as shown in the Working Plan to determine the extent of any landfill gas generation and migration and its concentration.

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4.25 Landfill gas monitoring shall be carried out by means of spiked holes to a depth of approximately one metre and boreholes which shall be sampled for methane and carbon dioxide at three monthly intervals or such other intervals as may be reasonably required by the Environment Agency. The results of each monitoring survey shall be supplied in writing to the Environment Agency within fourteen days of each monitoring survey.

4.26 Gas monitoring shall continue until such time as the Environment Agency is reasonably satisfied that there is no likelihood of landfill gas generation presenting a safety hazard or risk of environmental pollution.

4.27 Landfill gas shall not be allowed to migrate from the site at concentrations in excess of 1% flammable gas (methane) or 1.5% carbon dioxide above background levels as agreed with the Environment Agency. In the event that any of the monitoring surveys identifies the presence of the constituent of landfill gas in excess of the concentrations specified above remedial gas control measures specified in the Working Plan and as may be deemed necessary by the Environment Agency shall be carried out to reduce concentrations of methane or carbon dioxide below the above levels.

4.28 A scheme for long term groundwater monitoring shall be submitted within two months of the issue of the licence and the approved scheme detailed in the Working Plan

4.29 Water quality monitoring at the site shall be subject to an annual review by the Environment Agency and the need for additional monitoring boreholes and frequency of sampling tests to be carried out shall be agreed with the Licensee.

4.30 Monitoring at the site shall continue until the Environment Agency is satisfied that there is no likelihood that the landfill presents a risk of environmental pollution.

4.31 The licensee shall make known the terms of the site licence to any person who is given responsibility for the management or control of the site, and shall display a copy of the licence conditions and the Working Plan at the site control office.

4.32 Operations at the landfill facility shall cease if planning permission permitting such operations is not in force.

4.33 Waste shall be compacted, levelled and formed into a layer as soon as possible after deposit and not later than at the end of the working day on which the waste is received on site. The depth of the layer after initial compaction shall not exceed 2 metres.

4.34 In accordance with the EC Directive on Protection of Groundwater Against Pollution Caused by Certain Dangerous Substances (80/68/EEC), all technical precautions shall be taken to prevent the discharge of List I substances into groundwater and to prevent the pollution of groundwater by any substances in List II of the Directive.

4.35 No waste shall be deposited in water. All standing water shall be removed from the disposal area in accordance with a scheme approved by the Environment Agency and incorporated in the Working Plan.

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4.36 Infilling shall be carried out to the phased restoration programme shown in the Working Plan.

4.37 Material once deposited in the landfill and covered shall not be disturbed except with the consent in writing of the Environment Agency.

4.38 Before completion of operations the site area shall be :

a) Finished at levels which can reasonably be expected within 5 years to be generally in accordance with the restoration levels detailed in the Working Plan.

b) Covered with depths of overburden, subsoil and topsoil as specified by the County Planning Authority.

4.39 The final levels shall be set out at the commencement of deposit of the final layer in each phase and shall be checked before infilling of the next phase.

4.40 If, for whatever reason, the site ceases to accept waste materials, any part of the site which remains in an uncompleted condition shall be contoured and covered to the approval of the Environment Agency.

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ANNEX

MAXIMUM LEVELS IN SOILS
CONTAMINANT CONCENTRATIONS (mg/kg)
Soil pH must be between 6 and 8

Aluminium	400,000
Antimony	35
Arsenic	50
Barium	550
Beryllium	7
Boron	3.25
Bromine	7
Cadmium	3
Chromium	600
Cobalt	30
Copper	135
Fluorine	500
Iodine	7
Iron	100,000
Lead	300
Magnesium	750
Manganese	1000
Mercury	1
Molybdenum	4
Nickel	75
Selenium	3
Silver	0.2
Strontium	300
Sulphur	1000
Tin	25
Titanium	5000
Vanadium	200
Zinc	300
Cyanide	5
Thiocyanate	10
Phenol	1
Dioxins	0.005
PCBs	0.01
Poly Aromatic Hydrocarbons (PAHs)	10
Chlorinated Hydrocarbons	1
Mineral Oils	2000
<u>Extracts</u>	
Cyclohexane (CEM)	2000
Toluene (TEM)	5000

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EXPLANATORY NOTES

Appeal Procedure

If the applicant is aggrieved by the decision of the Environment Agency in granting a Waste Management Licence subject to conditions, she/he may appeal to the Secretary of State in accordance with Section 43 of the Environmental Protection Act 1990 and Regulations 6 and 7 of the Waste Management Licensing Regulations 1994. Appeals must be notified within six months of the date of this Notice to the Secretary, c/o The Planning Inspectorate, Room 10/13, Tollgate House, Houlton Street, Bristol, BS2 9DN. The Secretary of State has the power to allow a longer period for the giving of notice of an appeal but he will not normally be prepared to exercise this power unless there are special circumstances which excuse the delay in giving notice of an appeal

Waste Management Licence Application - Reading Quarry Landfill Site (J Mould)

An application was received on 17 September 1996 for a waste management licence to operate a landfill site known as Reading Quarry at Berry's Lane, Pingewood, Reading, Berkshire.The access to the site is the same access that was used for Knights Farm landfill (which is now a closed site) and the majority of the infrastructure remains.

Draft licence conditions were sent out to on 22 November 1996 and the comments received were:-

Babtie for Berkshire County Planning Department - *received 27 November 1996*

No comments

Health & Safety Executive - *received 10 December 1996*

No objections

Groundwater EA - *received January 1997*

Restriction on permitted waste intake for Type A as infilling will be below the water table, and contaminant concentration schedule to be amended.

Condition 1.1 and Annex amended to incorporate the above comments.

The level of Financial Provision was agreed at £28,200 and Keith Gouldsby-West gave his approval for a rolling bond. (E Mail 9 &12 May 1997). The rolling bond agreement was signed by Tony Plytas dated 13 August 1997 and the rolling bond schedule was signed by NatWest and returned 1 October 1997.

Schedules 1,2 and 3 have been checked by Chris Travis - team leader waste licensing.