

Licence No. CLE 178/2

CLEVELAND

ENVIRONMENTAL PROTECTION ACT 1990

WASTE MANAGEMENT LICENCE

The County Council of Cleveland as the Waste Regulation Authority (hereinafter referred to as "the Council") in pursuance of the powers and duties conferred on it by and under the Environmental Protection Act 1990
HEREBY GRANT a Waste Management Licence in respect of the following:-

Full Name and address of licence holder	Tourism & Leisure Officer Cargo Fleet Offices Langbaugh Borough Council Cargo Fleet Middlesbrough					
Nature of licence	To:- a) Deposit controlled waste b) Permit the deposit of controlled waste c) Use appropriate equipment for the purpose of dealing with controlled waste	 OUTGOING - 1				
Full name and address of local agent (if any) of licence holder	None	 PERMIT 2				
Location of Site	Former B.S.C site Middlesbrough Road South Bank MIDDLESBROUGH National grid map reference NZ 520205					
Method of disposal	Landfill					
Maximum quantities and types of waste to be disposed of daily	<table border="0"> <tr> <td>Waste from the Construction Industry</td> <td>300 loads</td> </tr> <tr> <td>Blast furnace/steelworks slag</td> <td>50 loads</td> </tr> </table>		Waste from the Construction Industry	300 loads	Blast furnace/steelworks slag	50 loads
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Blast furnace/steelworks slag	50 loads					

IMPORTANT: THIS LICENCE IS SUBJECT TO THE CONDITIONS ATTACHED HERETO

Dated

1st day of April

1993

Signed

Director of Environment, Development & Transportation.

CLEVELAND COUNTY COUNCIL

WASTE DISPOSAL LICENCE NO. CLE 178/2

CONDITIONS

1. The site shall, subject to the conditions below, be operated in accordance with the submitted licence applications and working plan which were approved by the Council on 28 September 1987.

Furthermore the site operator shall obtain the approval of the Council for any subsequent changes in the working plan prior to these changes being implemented.

2. Not less than 14 days notice in writing shall be given to the Council:-
 - (a) of the date on which landfilling is to commence, and
 - (b) in the event of a temporary cessation of operations for a period in excess of three months, of the date on which landfilling is to recommence.
3. Any temporary cessation of operations for a period in excess of three months shall be notified in writing to the Council.
4. When the operations to which this licence applies are completed and the licence is no longer required it must be returned to the County Surveyor and Engineer, Gurney House, Gurney Street, Middlesbrough, Cleveland.
5. This licence shall be kept intact and shall be produced to any authorised officer of the Council upon demand and shall be forwarded to the County Council with any written application for amendment, renewal or transfer.
6. Any proposal to transfer this licence must be notified in writing to the County Surveyor and Engineer, Gurney House, Gurney Street, Middlesbrough, Cleveland prior to such transfer, stating the date upon which the transfer is to take place and the name and address of the person to whom the licence is to be transferred.
7. No deposit shall take place unless a site identification board of durable material and finish is displayed at the site entrance, showing the hours when the site is open and giving the name of the site, the name, address and telephone number of the operator (and his local agent) and of the Council responsible for issuing the site licence. The board shall be maintained to the reasonable satisfaction of the Council and, in particular, the wording shall be legible at all times and the board shall show no sign of rot.

8. No deposit shall take place until a site control office has been provided on the site. The office shall be equipped with a telephone, first aid provisions, drinking water, heating, lighting, toilet and washing facilities. The site control office shall be properly maintained and a copy of the site licence shall be displayed within it.
9. No operations shall be carried out during the hours of darkness unless sufficient lighting has been provided to ensure safe working to the reasonable satisfaction of the Council. The hours of darkness are those published as statutory lighting up times by the Science Research Council.
10. No deposit shall take place until the Council has been notified in writing of the name of the person responsible for the management or control of the site. The terms of the site licence shall be made known to this person. The Council shall be notified in advance if subsequently the responsibility is to be given to any other persons and shall be given the names of these other persons. The site shall be supervised so as to ensure that the conditions of the licence are complied with.
11. No deposit shall take place until main access, main exit, main and subsidiary site roads have been provided to the following specification to the reasonable satisfaction of the Council.

Surface : compacted hardcore or slag
Width : minimum 4 metres with passing places every 200 metres
Gradient : maximum 1 in 13

Throughout the operation of the site, subsidiary site roads shall be provided to within 40 metres of the tip face. All site roads shall be maintained to the reasonable satisfaction of the Council and in particular shall be kept free from potholes.

12. No deposit shall take place until gates and fencing have been provided to the following specification.

Gate : 1 metre high tubular steel gate covering the full width of the access road.
Fencing : 1 metre high post and rail or post and wire fencing around the whole perimeter of the site except where adequate hedges are in existence.

The gates and fencing shall be maintained to the reasonable satisfaction of the Council. The gates shall be kept locked at all times when the site is unmanned. All reasonable precautions shall be taken to prevent unauthorised access to the site and the unauthorised deposit of waste on the site.

13. The types and quantities of wastes deposited daily at the site shall not exceed the following:-

Waste from the Construction Industry	300 loads
Blastfurnace/Steelworks Slag	50 loads

The above categories are the only types of waste which may be deposited at the site.

14. No waste may be deposited on the site which may give rise to an environmental hazard by virtue of the presence of;-

- a) Substances listed in Part 1 of Schedule 1 of the Control of Pollution Act (Special Waste) Regulations 1980.
- b) Other substances of a poisonous or noxious nature.

An environmental hazard is created if waste is deposited or disposed of in such a manner and in such a quantity as to subject persons or animals to material risk of death, injury or impairment of health, or as to threaten the pollution or contamination of any surface water or underground water.

15. A written record shall be kept of the types and quantities of wastes as described in Condition No. 13 deposited on the site. These records shall be retained by the site operator for a period of 2 years and copies of the records, including nil returns, shall be sent every three months to the Council to arrive not later than the 14th day of the month - subsequent to the three months to which the record relates.
16. The site shall be manned during opening hours by a minimum of 1 person and supervised to ensure that the conditions of this licence are complied with.
17. Solid waste shall be compacted 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. Any material deposited which may become airborne shall be compacted and covered when the waste is received.
18. Each layer of waste shall be formed and compacted using suitable equipment with a blade or some other appropriate levelling device.
19. The depth of each layer of waste shall not after initial compaction exceed 2.5 metres.
20. Solid waste shall either
- (a) be deposited on the surface of the site behind the face and partially compacted using a suitable machine before being pushed over the face and further compacted,

or it shall

(b) be deposited on the ground forming the base of the site or on a previous layer in front of the face and shall be formed into a compacted layer by being pushed upward and driven over by a suitable machine.

21. Unless otherwise agreed in writing by the Council, working faces and flanks shall be compacted to form gradients not steeper than 1 in 3 at the end of the working day on which the waste is formed into a layer in accordance with condition number 17.
22. Waste materials shall only be deposited within the area which is shown cross hatched on the plan attached to this licence.
23. The width of a working face shall not exceed 30 metres.
24. All large articles such as furniture and hollow containers which are, in the opinion of the Council, likely to cause voids shall be crushed, broken up or flattened and placed at the foot of the face and covered with other wastes by the end of the working day. Gas cylinders and empty drums which are contaminated with flammable materials should not be deposited on the site.
25. The final layer deposited shall be subject to the minimum compaction and shall, to a depth of not less than 500 millimetres, be kept free of material likely to interfere with final restoration or subsequent cultivation.
26. Until final restoration, the surface of all deposited material shall be maintained in a tidy condition free from debris and water. Effective action shall be taken to prevent the growth of vegetation and weeds which cause a nuisance.
27. At least once a week any loose waste which may be lying on the site or which is attributable to the operation of the site and lying outside the site shall be gathered and disposed of in such a way as to keep the site and the surrounding areas tidy.
28. No waste material shall be burnt within the boundaries of the site. Any fire at the site shall be regarded as an emergency and immediate action shall be taken to extinguish it. All such outbreaks of fire shall be notified to the Council within 1 day of the incident and in calculating this period any weekend or statutory holiday should be disregarded.
29. Any rats, flies and other vermin and insect pests on the site shall be killed. All pesticides, pesticidal products and where appropriate pest control techniques shall have been cleared for their intended use through the Pesticides Safety Precautions Scheme (see Department of the Environment Circular 90/76 of 24 September 1986).

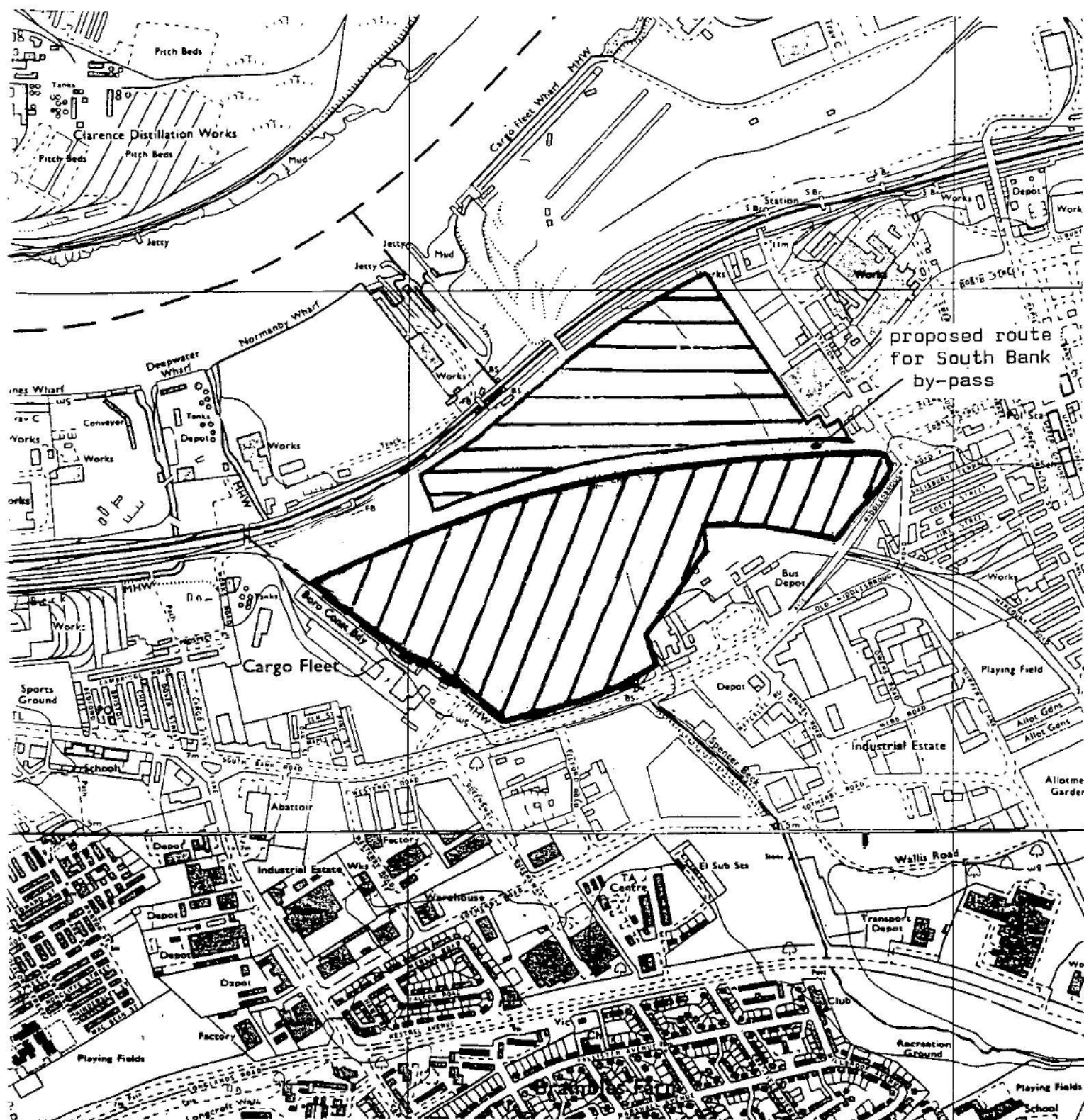
30. Measures shall be taken to ensure that mud, waste and other extraneous matter resulting from the operation of the site are not deposited on a public highway. If any such material is deposited on a public highway, it shall be removed immediately.
31. In the event of an accident resulting in the death or serious bodily injury of any person as a result of operations on the site the licence holder must notify the Council within 1 day of the incident and in calculating this period any weekend or statutory holiday should be disregarded.
32. No receptacles (such as skips, tanks etc. which are used for the conveyance or storage of waste) shall remain on site outside of working hours, without the written approval of the Council.
33. All practicable precautions, including immediate covering of waste materials which may be windblown and the use of litter screens, shall be taken to contain litter within the site. If any litter does escape from the site, it shall be collected immediately.
34. If the operation of the site gives rise to any nuisance from noise, dust, odours or windblown materials, immediate action shall be taken to prevent the continuation of the nuisance.
35. Tanks used for the storage of fuel shall be bunded. The tanks shall be of a type and construction suitable for the liquid they contain and shall be labelled to show their contents. The bund shall be capable of retaining 110% of the volume of the largest tank within the bund.
36. Each layer of waste and covering material shall be laid to a fall to encourage surface water run-off which shall not have adverse effects upon the land drainage interests of local landowners.
37. Operations shall be carried out in such a way as to avoid water pollution or flooding.
38. Any polluted leachate or polluted surface run-off arising from the site shall be treated or otherwise disposed of to the satisfaction of the Council.
39. An undisturbed 10 metre band shall be maintained between the perimeter of the waste disposal site and the Normanby Beck.
40. The site owner shall be responsible for any watercourse within the site curtilage including the removal of any materials entering any watercourse due to actions attributed to the working of the site.
41. There must be prior consultation with the Council before work can be carried out on the following:-

- (a) Alteration of any existing drainage interests in the area.
- (b) Diverting, culverting or bridging of any watercourse.
- (c) Alteration of any existing catchment area.

42. The licence holder shall comply with the requirements of the attached Annex No. LFG 7/89/E relating to landfill gas monitoring and control.

These conditions are to ensure that waste disposal is carried out with no unacceptable risk to the environment and to public health, safety and amenity.

Compliance with this licence does not remove any statutory obligation which may rest on the licence holder under other legislation.



WASTE DISPOSAL SITE LOCATION MAP

Scale 1:10000

National Grid Ref NZ520205

Licence Number CLE 178/2

Operator Langbaugh-on-Tees Borough Council

Location Former BSC site

Middlesbrough Road

South Bank



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ADDITIONAL CONDITIONS RELATING TO THE MONITORING AND CONTROL OF
LANDFILL GAS

LFG1 The Licence Holder shall be responsible for monitoring the site for the production and migration of landfill gas and where necessary (see LFG11) the surrounding land, nearby buildings and underground services for the presence of landfill gas. The aim of monitoring is to establish whether any gas production is taking place and if it is whether it is giving rise to a hazard or nuisance.

LFG2 Monitoring for landfill gas shall involve the planned testing for the components of landfill gas in accordance with an agreed monitoring programme (see LFG 6).

The gas monitoring programme shall incorporate routine testing for at least flammable gas, carbon dioxide and oxygen at test points within the body of the waste and outside the area of the wastes but within the site, for example, at the site boundary.

LFG3 The testing of the atmosphere in specially constructed boreholes is the preferred technique for gas monitoring. This technique shall be used at sites where there are buildings or underground services to which there is a potential for landfill gas to migrate within 250 metres of the site boundary.

Boreholes which are installed shall be to the full depth of the waste.

LFG4 Gas testing may be achieved by the use of portable instruments, which in the case of flammable gas shall be calibrated to detect methane.

Portable instruments shall be maintained and periodically recalibrated in accordance with the manufacturer's instructions.

Gas testing using portable instruments shall be supplemented by the analysis of gas samples at least twice per year by gas chromatography.

LFG5 The Licence Holder shall ensure that in any subsurface test point or borehole within the site but outside the area of wastes or the area of influence of any gas control system which has been installed :

- i) the flammable gas concentration of methane from the landfill shall not exceed 1% by volume (20% of the Lower Explosive Limit) and

- ii) the concentration of carbon dioxide shall not exceed 0.5% by volume.

LFG6

Within three months of the date of this licence (No. CLE178/2), the Licence Holder shall agree in writing with the Council a gas management scheme incorporating :-

- i) a monitoring programme to test at the licence holder's expense for (a) the generation of landfill gas from the waste deposited on the site and (b) the migration of this gas away from the site by underground routes.
- ii) appropriate gas control measures to contain and vent within the site any landfill gas that may be produced so that the requirements of condition LFG5 are met.
- iii) any necessary emergency procedures for action to be taken to deal with situations where concentrations of landfill gas in excess of 5% of the Lower Explosive Limit of flammable gas or carbon dioxide in excess of 0.5% by volume are detected in buildings or underground services, for example during monitoring of buildings/services (see LFG11) identified as being potentially at risk from migration (see LFG8).

The gas management scheme shall be implemented from an agreed date and maintained by the licence holder for the duration of the licence.

LFG7

The results of the monitoring programme shall be recorded in writing and made available on request to the Council and additionally shall be submitted to the Council along with the other records required by this licence.

LFG8

The gas monitoring programme submitted in accordance with condition LFG6 shall include the following information :-

- i) A plan showing the locations of all buildings and underground services within 250 metres of the site boundary.
- ii) Details of the geology and hydrogeology of the site and its surroundings including the results of any site investigations. Where relevant this should include information on any quarrying or mining activities carried out on the site.
- iii) An assessment, taking into account the information in (i) and (ii) above of the likelihood of gas migration, the potential pathways by which landfill gas might migrate from the site and the risk to any nearby development, crops and vegetation. Buildings or underground services which are considered to be

potentially at risk and might need to be monitored if the levels given in condition LFG5 are exceeded shall be identified.

- iv) The provision of gas monitoring boreholes or other test points with the proposed positions marked on a plan of the site. The positioning of monitoring test points shall take account of the assessment of possible migration pathways in (iii) above and the location of any gas control system installed. Particular attention should be given to the provision of boreholes between the waste and any areas identified as being potentially at risk if underground migration were to occur.

The design, construction and depth of boreholes shall be given.

- v) The equipment to be used to test for landfill gas, gases to be tested for, the frequency of testing, the personnel who will be carrying out testing (including details of experience, qualifications or training) and the manner of keeping records.
- vi) The procedure for testing any buildings/services should the need arise (see condition LFG11).
- vii) Any necessary provisions for the routine testing of buildings situated on the site.

LFG9

Acceptable gas control shall, where necessary be achieved by the provision of one or more of the following measures :-

- i) gas barriers
- ii) permeable venting trenches
- iii) gas wells
- iv) pumped gas venting systems

Where the installation of a gas control system is necessary, the provision of a single control measure may not be adequate except possibly for sites in remote locations.

At all other sites a combination of gas control measures shall be provided.

LFG10

Any emergency procedures which are drawn up shall include provisions for the following :-

- i) The evacuation of buildings. This should take place if concentrations at or above either of those given in LFG5 are detected.
- ii) The informing of the relevant Authorities such as the Waste Disposal Authority, the Health and Safety

Executive, Environmental Health Authority, emergency services and British Gas.

iii) Further gas monitoring measures.

LFG11 If concentrations of flammable gas or carbon dioxide in excess of the levels indicated in condition LFG5 are detected the following action shall be taken :-

- i) the licence holder must notify the Council within 1 day of the result being recorded and in calculating this period any weekend or statutory holiday should be disregarded.
- ii) gas control measures shall be taken or, if control measures are already in existence, additional measures shall be installed within a time period to be agreed with the Council to reduce the concentrations below those specified in condition LFG5.
- iii) within 24 hours a survey of the surrounding land and any buildings or underground services identified as being potentially at risk in the monitoring programme shall be carried out to determine the extent of any migration and the concentrations of gas present in the buildings/ services.

The Council shall be informed within 1 day (calculated as in i) above) of the results of this survey and of any difficulties in gaining access encountered in carrying it out.

LFG12 The licence holder shall allow any duly authorised officer* of the Council to enter the site to carry out tests for landfill gas in accordance with the provisions of Section 91 and 92 of the Control of Pollution Act 1974.

LFG13 The terms used in this Annex shall have the following meanings :-

- | | |
|----------------------|---|
| Landfill Gas | - gas arising from the degradation of wastes and which can contain methane, carbon dioxide and other gases. |
| Underground Services | - any underground electricity, gas, telephone, television, water, sewerage or drainage services and associated ducts, chambers and similar installations. |

Gas Control System - a system to prevent the uncontrolled escape of gas from a landfill site.

Borehole - a hole drilled into wastes or ground to allow the testing of underground gases.

Migration - the underground movement of landfill gas away from the body of wastes in which it was produced.

Gas control measures - these measures are described in more detail in Waste Management Paper No. 27.

Duly Authorised officer - is an officer authorised by the Council to exercise statutory powers under the Control of Pollution Act 1974 described in the warrant form issued by the County Secretary for the Council. Any programme shall be carried out to monitor any migration and the concentration of gas in the buildings.

The Council shall be informed of any difficulties arising from the carrying out of the programme.

2.6.1 The licence holder shall allow any duly authorised officer of the Council to enter the site to carry out tests for landfill gas in accordance with the provisions of Section 92 of the Control of Pollution Act 1974.

2.6.2 The terms used in this licence shall have the following meanings:-

Landfill Gas - gas arising from the degradation of wastes and which can contain methane, carbon dioxide and other gases.

Underground Services - any underground electrical, gas, telephone, television, water, sewerage or drainage services and associated ducts, channels and similar installations.

ENVIRONMENTAL PROTECTION ACT 1990

Section 37

NOTICE OF MODIFICATION OF WASTE MANAGEMENT LICENCE

To Tourism and Leisure Officer
Cargo Fleet Offices
Langbaugh Borough Council
Cargo Fleet
MIDDLESBROUGH
Cleveland

WHEREAS on 28th September 1987 the Cleveland County Council granted to you a Waste Disposal Licence now to be treated as a Waste Management Licence Reference CLE 178 relating to former BSC site Middlesbrough Road, South Bank, Middlesbrough, Cleveland subject to the conditions set out therein

NOTICE is HEREBY GIVEN that the Environment Agency ("the Agency") modifies the said conditions as follows:-

The following Conditions attached to Waste Management Licence Reference Number CLE 178, Modification 2, shall be deleted,

Conditions 4, 6 and 15

and the attached Conditions, Waste Management Licence Reference Number CLE 178, Modification 3, shall be substituted.

43 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:

- a) origin of waste, by local authority district
- b) time and date received
- c) quantities in tonnes received and waste type - as specified by the Agency
- d) time and date removed
- e) quantities in tonnes removed and waste type - as specified by the Agency
- f) destination of materials removed, by local authority district

44 A summary of the information, including nil returns, specified in condition 43 above shall be submitted to the Agency, in a format and frequency as required by the Agency. The summary shall be submitted within 14 days of the end of the accounting period specified by the Agency.

45 A summary of the consumption of air space and confirmation of the remaining capacity at the site shall be submitted to the Agency, in a format agreed with the Agency, for the twelve months proceeding 1 April each year before 30 April of that year.

Such modification shall take effect on 31 March 1998 at 24.00 hours

DATED 31/3 1998 (Signed) 

(Designation) Environment
Protection Manager

Environment Agency
Swan House
Merchants Wharf
Westpoint Road
Thornaby
Cleveland
TS17 6BP

NB- The person served with this notice may appeal against the Agency's decision to the Secretary of State within six months or such longer period as the Secretary of State may allow. (See notes overleaf.)