

Councillor C. Flood, T.D.,
Minister of State,
Department of Health,
Baile Atha Cliath 2.

Our Ref.: 91A/0349

9th September, 1992.


Re: Proposed bungalow and waste water treatment system at
Greenhills Road, for J. Harvey.

Dear Minister,

I refer to your recent representations in connection with the
above planning application.

I now wish to inform you that the Planning Authority made a
decision to grant approval on 7th September, 1992. (copy
enclosed).

Yours faithfully,



for Principal Officer.

Reg. Reg: 91A/0349

STO: £375 : Water only

RPS: £800. see report of Roads Dept.
on 91A/340

WE 7/9/92

Councillor C. Flood,
Birchview Lawns,
Kilnamanagh,
Tallaght,
Dublin 22.

Our Ref.: 91A/349

13 May 1991

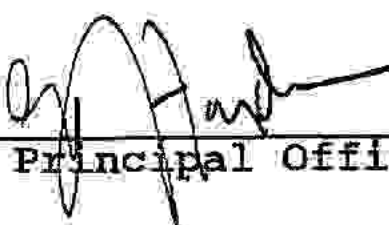
RE: Proposed bungalow and waste water treatment system at
Greenhills Road, Dublin 12 for J. Harvey.

Dear Councillor Flood,

I refer to your recent representations in connection with the
above planning application.

I now wish to inform you that the Planning Authority requested
additional information from the applicant on 8th May, 1991.

Yours faithfully,



for Principal Officer.

FILE DISCUSSED AT COUNCIL/COMMITTEE MEETING

FILE REF: 91A 349

MEETING	COMMENTS	NOTED IN DEV. CONTROL	NOTED BY
<p>BELGARD H+P <u>23/4/91</u> —</p>	<p>Noted by C/S M Lynch</p>		

COMHAIRLE CHONTAE ATHA CLIATH

DUBLIN COUNTY COUNCIL

NO FEE WITH EYE LAW APPLICATION

TELEPHONE: 724755

EXTENSION: 231/234

FAX.: 724896

PLANNING DEPARTMENT,

IRISH LIFE CENTRE,

LOWER ABBEY STREET.,

DUBLIN 1.

Fuller & Jeram Architects.

110 Baggot Lane,

Ballsbridge,

Dublin 4.

19/3/91

REG. REF.: 91A/0349

RE: Bungalow, at Greenhills Road, Dublin 12, for J. Harvey.

Dear Sir/Madam,

I refer to your application for Bye Law approval in respect of the above proposal. I wish to inform you that the Planning Authority will not commence to consider the application until the appropriate fee is paid. If no fee or a fee less than the appropriate fee has been received by the Council on the expiration of two months, commencing on the day the application is received, the application will be regarded as having been withdrawn.

The correct fee for the above mentioned application is E 55.00.
Please quote the Register Reference No. stated above when submitting the fee.

Yours faithfully,



for PRINCIPAL OFFICER

REF. NO.: 91A/0349

CERTIFICATE NO.: 14267B

PROPOSAL: Bungalow

LOCATION: Bungalows at Greenhills Road D12

APPLICANT: J. HARVEY

	1	2	3	4	5	6	7
CLASS	DWELLINGS/AREA LENGTH/STRUCTURE	RATE	AMT. OF FEE REQUIRED	AMT. LODGED	BALANCE DUE	RED. FEE APPL.	AMT. OF RED. FEE
A	Dwelling (Houses/Flats)	@ \$55	55	NIL/55			
B	Domestic Em. (Improvement/Apts.)	@ \$30					
C	Building for office or other comm. purpose	@ \$3.50 per M ² or \$70					
D	Building or other structure for purposes of agriculture	@ \$1.50 per M ² in excess of 300 M ² Min. \$70					
E	Petrol Filling Station	@ \$200					
F	Dev. of prop. not coming within any of the foregoing classes	\$70 or \$9 per .1 hect. whichever is the greater					

Column 1 Certified: Signed: _____ Grade: _____ Date: _____

Column 1 Endorsed: Signed: _____ Grade: _____ Date: _____

Columns 2, 3, 4, 5, 6 & 7 Certified: Signed: *[Signature]* Grade: S.O. Date: 19/3/91

Columns 2, 3, 4, 5, 6 & 7 Endorsed: Signed: _____ Grade: _____ Date: _____

91A/0349

CERTIFICATE NO:

24569

PROPOSAL:

Bungalow

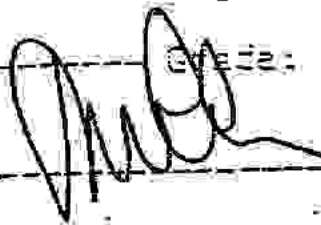
LOCATION:

Bungalow at Green Hills Rd, D. 12

APPLICANT:

J. Harvey

1	2	3	4	5	6	7
DWELLINGS/AREA LENGTH/STRUCT	RATE	AMT. OF FEE REQ.	AMOUNT LODGED	BALANCE DUE	BALANCE DUE	DATE/ RECEIPT NO
Dwellings	2332	32	32			
	2316					
	2300					
	2284					
	2268					
	2252					
	2236					
	2220					
	2204					
	2188					
	2172					
	2156					
	2140					
	2124					
	2108					
	2092					
	2076					
	2060					
	2044					
	2028					
	2012					
	1996					
	1980					
	1964					
	1948					
	1932					
	1916					
	1900					
	1884					
	1868					
	1852					
	1836					
	1820					
	1804					
	1788					
	1772					
	1756					
	1740					
	1724					
	1708					
	1692					
	1676					
	1660					
	1644					
	1628					
	1612					
	1596					
	1580					
	1564					
	1548					
	1532					
	1516					
	1500					
	1484					
	1468					
	1452					
	1436					
	1420					
	1404					
	1388					
	1372					
	1356					
	1340					
	1324					
	1308					
	1292					
	1276					
	1260					
	1244					
	1228					
	1212					
	1196					
	1180					
	1164					
	1148					
	1132					
	1116					
	1100					
	1084					
	1068					
	1052					
	1036					
	1020					
	1004					
	988					
	972					
	956					
	940					
	924					
	908					
	892					
	876					
	860					
	844					
	828					
	812					
	796					
	780					
	764					
	748					
	732					
	716					
	700					
	684					
	668					
	652					
	636					
	620					
	604					
	588					
	572					
	556					
	540					
	524					
	508					
	492					
	476					
	460					
	444					
	428					
	412					
	396					
	380					
	364					
	348					
	332					
	316					
	300					
	284					
	268					
	252					
	236					
	220					
	204					
	188					
	172					
	156					
	140					
	124					
	108					
	92					
	76					
	60					
	44					
	28					
	12					

Column 1 Certified: Signed: _____ Date: _____
 Column 1 Endorsed: Signed: _____ Date: _____
 Columns 2, 3, 4, 5, 6 & 7 Certified Signed:  Grade: S.O Date: 11/3/91
 Columns 2, 3, 4, 5, 6 & 7 Endorsed: Signed: _____ Grade: _____ Date: _____

LOCATION GOVERNMENT (PLANNING AND DEVELOPMENT) ACTS, 1963 TO 1962

ASSESSMENT OF FINANCIAL CONTRIBUTION

REG. REF.:

CONT. REG.:

SERVICES INVOLVED: WATER/FOUL SEWER/SURFACE WATER

AREA OF SITE:

FLOOR AREA OF PRESENT PROPOSAL:

MEASURED BY:

CHECKED BY:

METHOD OF ASSESSMENT:

TOTAL ASSESSMENT

MANAGER'S ORDERED NO: P/ /
DATED

ENTERED IN CONTRIBUTIONS REGISTER:

DEVELOPMENT CONTROL ASSISTANT GRADE

Mary Galvin.

DUBLIN COUNTY COUNCIL

REG. REF: 91A/349/3
DEVELOPMENT: Bungalows.
LOCATION: Greenhills Road, Dublin 12.
APPLICANT: J. Harvey.
DATE LODGED: A.I. 20.5.92.

This submission contains A.I. on the Biocycle Waste water treatment for the above.

Roads Department report of 9.5.91 still applies.

PLANNING DEPT.
DEVELOPMENT CONTROL SECT
Date 8/7/92
Time 12.10

AMCS/BMCC
1.7.92.

SIGNED: J. McStay
DATE: 1/7/92

ENDORSED: E. Waddell
DATE: 2/7/92

P/4253/92

IN 7672

COMHAIRLE CHONTAE ÁTHA CLIATH

Record of Executive Business and Manager's Orders

CONTRIBUTION:
Standard: 2375
Roads: 2800
S. Sers:
Open Space:
Other:
SECURITY:
Bond / C.I.F.:
Cash:

| SOUTH DUBLIN |

Register Reference : 91A/0349

Date Received : 20th May 1992

Correspondence : Fuller & Jermyn, Architects,
Name and : 110 Baggot Lane,
Address : Ballsbridge,
Dublin 4.

Development : Bungalow and waste water treatment system

Location : Greenhills Road, Dublin 12.

Applicant : J. Harvey

App. Type : Approval

Zoning :

Floor Area : Sq. metres

(NP/BB)

Report of the Dublin Planning Officer dated 3 September 1992.

This is an application for APPROVAL for a bungalow and waste water treatment system at Greenhills Road.

The application was lodged on 14th March 1991 and Additional Information requested on 10th May, 1991 regarding sewage disposal and a tree survey. Time extensions were subsequently granted on this application now expired on 9th September.

Reg. Ref. 87A/1089 refers to a grant of outline permission for a bungalow on the site.

A tree survey has been submitted and a biocycle drainage system is proposed.

Roads Engineer report not available but their report of 28/10/87 (Reg. Ref. 87A/1089) is noted.

Sanitary services report is noted.

COMHAIRLE CHONTAE ÁTHA CLIATH

Record of Executive Business and Manager's Orders

Reg. Ref: 91A/0349

Page No: 0002

Location: Greenhills Road, Dublin 12.

The site is located in an area zoned "to preserve and provide for open space and recreational amenities" in the Development Plan and represents the side garden side of the existing bungalow.

Reg. Ref. 91A/0340 refers to a current application for approval for a bungalow on the other side of the existing bungalow.

A communal access is proposed for the 3 houses.

In view of the grant of outline permission the proposed development is considered consistent with the provisions included in the Development Plan.

I recommend that a decision to GRANT APPROVAL be made under the Local Government (Planning and Development) Acts, 1963 - 1991, subject to the following (7) conditions :-

CONDITIONS / REASONS

01 The development to be carried out in its entirety in accordance with the plans, particulars and specifications lodged with the application, as amended by additional information received on 20th May 1992 ^{as per 9/8/92} save as may be required by the other conditions attached hereto. *N*

REASON: To ensure that the development shall be in accordance with the permission and that effective control be maintained.

02 That the proposed house be used as a single dwelling unit.

REASON: To prevent unauthorised development.

1002
03 That a financial contribution in the sum of £ 800 - 00 be paid by the applicant to Dublin County Council towards the improvement of the road network in the area of the proposed development, and which will facilitate this development. This contribution to be paid prior to the commencement of development on site.

REASON: The provision of such services in the area by the Council will facilitate the proposed development. It is considered reasonable that the developer should contribute towards the cost of providing the services.

1002
04 That a financial contribution in the sum of £ 375 - 00 be paid by the proposer to the Dublin County Council towards the cost of provision of public services in the area of the proposed development and which

COMHAIRLE CHONTAE ÁTHA CLIATH

Record of Executive Business and Manager's Orders

Reg. Ref: 91A/0349

Page No: 0003

Location: Greenhills Road, Dublin 12.

facilitate this development; this contribution to be paid before the commencement of development on the site.

REASON: The provision of such services in the area by the council will facilitate the proposed development. It is considered reasonable that the developer should contribute towards the cost of providing the services.

05 The following requirements of the ~~Sanitary Services Engineer~~ shall be adhered to:-

(i) The irrigation area being located closer to the boundary wall with Greenhills Road than is indicated on the drawing ^{submitted to the Council on 4th August, 1992.} received in this office

(ii) The applicant entering into an on going maintenance contract with the manufacturer.

(iii) A certificate of satisfactory completion being supplied before occupancy takes place

(iv) AN acceptable foul sewer infrastructure being installed for the entire set of sites which would enable each of the three dwellings to connect to any sewer system which may be installed on the lands lying to the west in the future, such infrastructure to terminate in a manhole at the site boundary.

06 Heating to be provided by the use of either oil, gas, electricity or by smokeless fuels in fireplaces or appliances suitable only for burning solid smokeless fuels.

REASON: In the interest of reducing air pollution.

07 That the garage be used solely for purposes incidental to the enjoyment of the dwelling house as such

Reason. In the interest of the proper planning & development of the area.

COMHAIRLE CHONTAE ÁTHA CLIATH

Record of Executive Business and Manager's Orders

Reg.Ref: 91A/0349

Page No: 0004

Location: Greenhills Road, Dublin 12.

.....*[Signature]*.....
for Dublin Planning Officer

Endorsed:-.....*[Signature]*.....
for Principal Officer

Order: A decision pursuant to section 26(1) of the Local Government (Planning and Development) Acts, 1963-1991 to GRANT APPROVAL for the above proposal subject to the (7) conditions set out above is hereby made.

Dated : 7 September, 1992.

.....*[Signature]*.....
ASSISTANT COUNTY MANAGER/APPROVED OFFICER

to whom the appropriate powers have been delegated by order of the Dublin City and County Manager dated 7/9/92

Register Reference : 91A/349

Date :

(B)

Development : Bungalow + waste water treatment system.

LOCATION : Greenhills Road D12

Applicant : J. Harvey

App. Type : A I

Planning officer :

Date Recd. : 5/8/92

PLANNING DEPT.
 DEVELOPMENT CONTROL SECT
 Date 12.08.92
 Time..... 12.30.....

Attached is a copy of the application for the above development. Your report would be appreciated within the next 28 days.

Yours faithfully,

DUBLIN Co. COUNCIL
 5 JUN 1992
 SAN SERVICES

DUBLIN CI
 SANITARY
 1 AUG 1992
 PRINCIPAL OFFICER
 Returned [Signature]

Date received in sanitary services

FOUL SEWER

Available to Biocycle treatment centre with sub-surface irrigation as a disposal method as proposed by the applicant subject to :

- (i) The irrigation area being located closer to the boundary wall withly reahills Rd. than is indicated on the drg. received in the office on 4/8/92.
- (ii) The applicant entering into an on-going maintenance contract with the manufacturer.
- (iii) A certificate of satisfactory completion being supplied before occupancy takes place
- (iv) An acceptable foul sewer infrastructure being installed for the entire set of sites which would enable each of the three dwellings to connect to any sewer system which ~~may~~ may be installed on the lands lying to the west in the future, such infrastructure to terminate in a Manhole at the site boundary.

SURFACE WATER : Available to french drains / soak pits as proposed by applicant, subject to the requirements of the B.B.L. Dept.

SENIOR ENGINEER,
 SANITARY SERVICES DEPARTMENT,
 45/49 UPPER O'CONNELL STREET,
 DUBLIN 1.

J. Rice
 6/8/92

Register Reference : 91A/349

Date :

.....
ENDORSED _____ DATE _____

WATER SUPPLY... *See previous report enclosed*

Mary Abbe
9/6/92

.....
ENDORSED *[Signature]* DATE *6/8/92*

PLANNING DEPT.
DEVELOPMENT CONTROL SECT
Date 12.08.92
Time 12.30

P/3739/92

COMHAIRLE CHONTAE ÁTHA CLIATH

Record of Executive Business and Manager's Orders

SOUTH COUNTY

Register Reference : 91A/0349

Date Received : 20th May 1992

Correspondence : Fuller & Jermyn, Architects,
Name and : 110 Baggot Lane,
Address : Ballsbridge,
Dublin 4.

Development : Bungalow and waste water treatment system

Location : Greenhills Road, Dublin 12.

Applicant : J. Harvey

App. Type : Approval

Zoning :

Floor Area : Sq.metres

In accordance with Section 26(4a) of the Local Government (Planning and Development) Act, 1963, as amended by section 39(f) of the Local Government (Planning and Development) Act, 1976, the applicant has furnished his consent in writing to the extension by the Council of the period for considering this application within the meaning of subsection (4a) of Section 26, up to and including the 09.09.92.

I recommend that the period be extended accordingly.

Reason: To facilitate full consideration of the application.

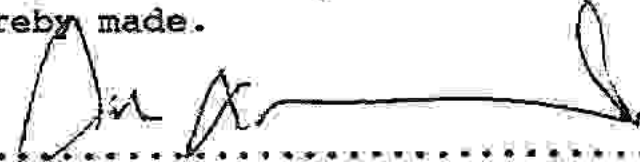
Endorsed:- 
for Principal Officer



COMHAIRLE CHONTAE ÁTHA CLIATH

Record of Executive Business and Manager's Orders

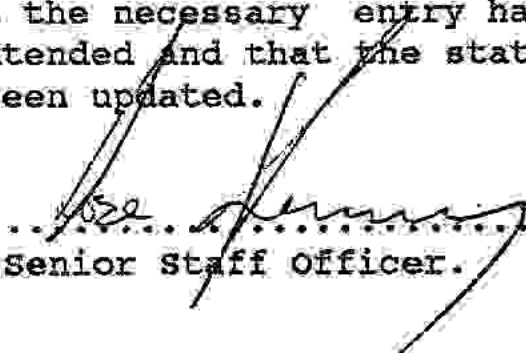
Order: A decision pursuant to Section 26(4A) of the Local Government (Planning and Development) Act, 1963 to extend the period for considering the application as recommended is hereby made.

Dated : 5th August 1992 

ASSISTANT COUNTY MANAGER

to whom the appropriate powers have been delegated by order of the Dublin City and County Manager dated 12th July 1992

NOTE: I have checked that the necessary entry has been made recording details of the period as extended and that the statutory expiry date on the Detail Screen has been updated.

..... 

Senior Staff Officer.

P/3456/92

COMHAIRLE CHONTAE ÁTHA CLIATH

Record of Executive Business and Manager's Orders

SOUTH COUNTY

Register Reference : 91A/0349

Date Received : 20th May 1992

Correspondence : Fuller & Jermyn, Architects,
Name and : 110 Baggot Lane,
Address : Ballsbridge,
Dublin 4.

Development : Bungalow and waste water treatment system

Location : Greenhills Road, Dublin 12.

Applicant : J. Harvey

App. Type : Approval

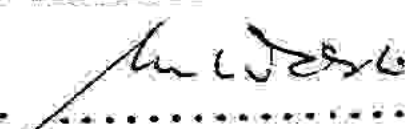
Zoning :

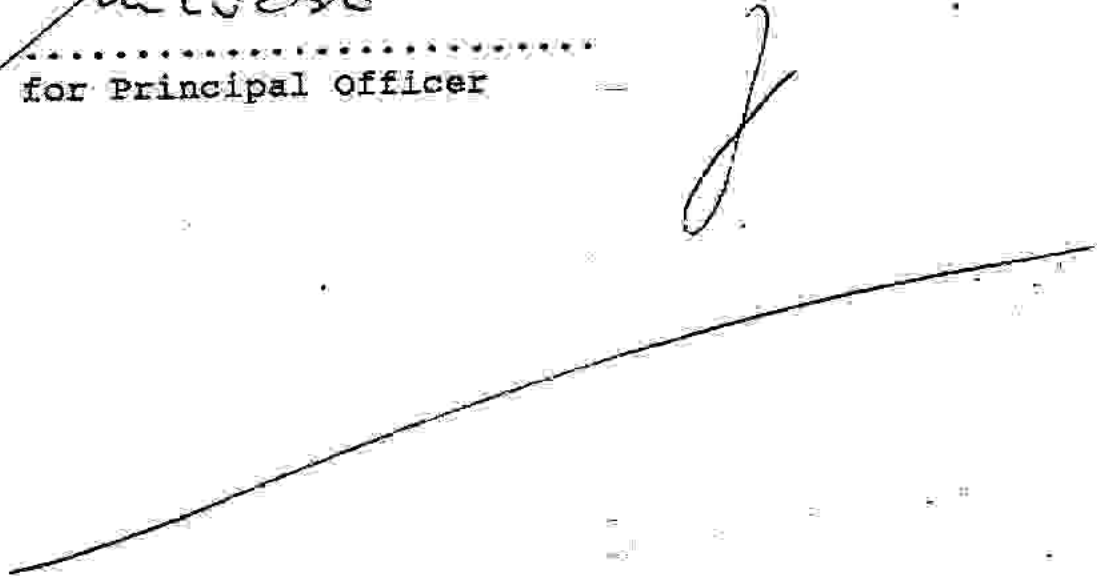
Floor Area : Sq.metres

In accordance with Section 26(4a) of the Local Government (Planning and Development) Act, 1963, as amended by Section 39(f) of the Local Government (Planning and Development) Act, 1976, the applicant has furnished his consent in writing to the extension by the Council of the period for considering this application within the meaning of subsection (4a) of Section 26, up to and including the 09.08.92.

I recommend that the period be extended accordingly.

Reason: To facilitate full consideration of the application.

Endorsed:- 
for Principal Officer



COMHAIRLE CHONTAE ÁTHA CLIATH

Record of Executive Business and Manager's Orders

Order: A decision pursuant to Section 26(4A) of the Local Government (Planning and Development) Act, 1963 to extend the period for considering the application as recommended is hereby made.

Dated : *20th July 1982* *Aa An*
ASSISTANT COUNTY MANAGER

to whom the appropriate powers have been delegated by order of the Dublin City and County Manager dated *13th July 1982*

NOTE: I have checked that the necessary entry has been made recording details of the period as extended and that the statutory expiry date on the Detail screen has been updated.

.....
Senior Staff Officer.

P/2013/91

COMHAIRLE CHONTAE ÁTHA CLIATH

Record of Executive Business and Manager's Orders

Register Reference : 91A/0349

Date Received : 14th March 1991

Correspondence : Fuller & Jermyn, Architects,
Name and : 110 Baggot Lane,
Address : Ballsbridge,
Dublin 4.

Development : Bungalow and waste water treatment system

Location : Greenhills Road, Dublin 12.

Applicant : J. Harvey

App. Type : Approval

Zoning : F

MD
(MD/AC)

Report of the Dublin Planning Officer dated 2 May, 1991.

This is an application for APPROVAL for a bungalow and waste water treatment system at Greenhills Road. The proposal is ^{part of the site of} adjacent to an existing bungalow ^{and a smaller plot of which} and is part of a total site of 1.125 acres, ~~on which~~ there is a current application for Approval, Reg. Ref. 91A/340.

By Decision Order P/3763/87, Reg. Ref. 87A/1089, outline planning permission was granted for a bungalow subject to 5 conditions on the 1.125 acre site of the Harvey family bungalow.

Subsequently by Decision Order P/3069/89, Reg. Ref. 89A/19, following a Section 4 motion Dublin County Council granted outline permission for a bungalow on another portion of this 1.125 acre site.

The site area of the application for approval under consideration is not stated in this application, however the site forms about 1/3 of the site of the original outline approval which incorporated the entire 1.125 acre site. The proposed bungalow is similar in design to that of current application for approval, Reg. Ref. 91A/34. The proposed finishes are brown roof tiles and bricks to be selected. The bungalow is three-bedroomed and there is an "A" roof with a flat roofed area over the garage and hall. Access appears to be proposed to the existing bungalow access.

The Sanitary Services Department have reported on the proposed biocycle system and request additional information.

The Roads Department report ~~that~~ is not available.

COMHAIRLE CHONTAE ÁTHA CLIATH

Record of Executive Business and Manager's Orders

I recommend that ADDITIONAL INFORMATION be requested from the applicant with regard to the following:-

- 01 The applicant is requested to provide the following additional information in relation to the proposed system of foul drainage: (a) Applicant is requested to provide details of the irrigation system proposed, its nature and its size. Applicant should consult Sanitary Services Department of Dublin County Council, (Tel. 727777) before submitting details. (b) Applicant is requested to submit the location of the irrigation area and to indicate if the chosen location can accommodate an irrigation area to the size required by the system proposed. (c) Applicant is to indicate if he intends to enter into a maintenance contract on an on-going basis for the proposed.
- 02 In relation to surface water drainage the following information is required: (a) Applicant is requested to provide details of the French drain proposed.
- 03 Applicant is requested to submit evidence that the site is suitable for the Biocycle system which is proposed for it.
- 04 Applicant is requested to submit details that Condition No. 3 of Outline Permission, Reg. Ref. 87A/1089, Decision Order P/3763/87, has been complied with.
- 05 Applicant is requested to submit a tree survey of the 1.125 acre site and the survey is to include an assessment of the the conditions of the trees on the site, the conservation works required and the proposals for protecting them during development, in compliance with Condition No. 4 of the outline Permission Granted by Decision Order P/3763/87.

06 Applicant is requested to submit details of the site area.

Richard L. Collins SEP
for Dublin Planning Officer

6 5 91

Endorsed:
for Principal Officer

Order: I direct that ADDITIONAL INFORMATION be requested from the applicant for Approval as set out in the above report and that notice thereof be served on the applicant.

Dated :

8 May 1991

K. O'Sullivan
ASSISTANT CITY AND COUNTY MANAGER

to whom the appropriate powers have been delegated by order of the Dublin City and County Manager dated 26th April, 1991.

Register Reference : 91A/0349

Date : 21st March 1991

Development : Bungalow and waste water treatment system

LOCATION : Greenhills Road, Dublin 12.

Applicant : J. Harvey

App. Type : APPROVAL/BUILDING BYE-LAW APPROVAL

Planning Officer : M. DARLEY

Date Recd. : 14th March 1991



Attached is a copy of the application for the above development. Your report would be appreciated within the next 28 days.

Yours faithfully,

Paul Darley

PRINCIPAL OFFICER

The proposal is not acceptable for the following reasons

1. The proposed irrigation areas, the location and length of same have not been indicated on plan
 2. There is no guarantee that irrigation of recreational areas will be avoided due to the restriction of the site size.
 3. On the event of overflow of the runnel there is no evidence that the soil will absorb the effluent within the site boundaries.
 - ④ Details of the Biocycle Unit and confirmation from the installers that the site is suitable to accommodate the system have not been indicated
 - ⑤ Evidence that the applicant will enter a maintenance contract has not been indicated
- Stadler for John O'Reilly SBHO 7/5/91

SUPER. ENVIRON. HEALTH OFFICER,
33 GARDINER PLACE,
DUBLIN 1.

SS + CMO.

MD

Ⓟ

Register Reference : 91A/0349

Date : 21st March 1991

Development : Bungalow and waste water treatment system

LOCATION : Greenhills Road, Dublin 12.

Applicant : J. Harvey

App. Type : APPROVAL/BUILDING BYE-LAW APPROVAL

Planning Officer : M. DARLEY

Date Recd. : 14th March 1991

PLANNING DEPT.	
DEVELOPMENT CONTROL SECT	
Date	21/3/91
Time	12.30

Attached is a copy of the application for the above development .Your report would be appreciated within the next 28 days.

Yours faithfully,

DUBLIN CO. COUNCIL
- 2 APR 1991
SAN SERVICES

DUBLIN CO. COUNCIL
SANITARY SERVICES
PRINCIPAL OFFICER
30 APR 1991
Returned *gh*

Date received in sanitary services

FOUL SEWER

Insufficient Information

1. Applicant has not provided ^{sufficient} details of the irrigation system ^(its nature, size etc)
2. applicant has not indicated the location of the irrigation area
3. Applicant has not indicated that the location chosen for the irrigation area ~~is large enough~~ can be accommodated ~~at~~ the size of area required.
4. Applicant has not indicated that he intends to enter into & maintain on an on-going basis the necessary maintenance contracts.

SURFACE WATER

Additional Information Required

applicant is requested to provide details of the "french drains" required - soak pits may be intended.

SENIOR ENGINEER,
SANITARY SERVICES DEPARTMENT,
46/49 UPPER O'CONNELL STREET,
DUBLIN 1

J. Rice
29/4/91

MD

Register Reference : 91A/0349

Date : 21st March 1991

.....
ENDORSED _____ DATE _____

WATER SUPPLY Available for zone line 24 hour
storage to be provided

[Signature]
8/4/91

.....
ENDORSED _____ DATE _____

[Signature] 15/4/91
[Signature] 26/4/91



Bloc 2, Ionad Bheatha na hEireann,
Bloc 2, Irish Life Centre,
Sraid na Mainistreach Iacht,
Lower Abbey Street,
Baile Atha Cliath 1.
Dublin 1.
Telephone (01) 724755
Fax (01) 724896

NOTIFICATION OF DECISION TO GRANT APPROVAL
LOCAL GOVERNMENT (PLANNING AND DEVELOPMENT) ACTS 1963-1991.

Decision Order Number : P/ 4253 /92 Date of Decision : 7th September 1992

Register Reference : 91A/0349 Date Received : 20th May 1992

Applicant : J. Harvey

Development : Bungalow and waste water treatment system

Location : Greenhills Road, Dublin 12.

Floor Area : Sq. Metres

Time Extension(s) up to and including :


Additional Information Requested/Received : 080591//200592

In pursuance of its functions under the above mentioned Acts, the Dublin County Council, being the Planning Authority for the County Health District of Dublin, did by order dated as above make a decision to GRANT APPROVAL in respect of the above proposal.

Subject to the Conditions on the attached Numbered Pages.

NUMBER OF CONDITIONS:- 7.....ATTACHED.

Signed on behalf of the Dublin County Council..


for Principal Officer

Date: 7th September 1992

Fuller & Jermyn, Architects,
110 Baggot Lane,
Ballsbridge,
Dublin 4.

NOTES

1. An appeal against the decision may be made to An Bord Pleanala. The applicant may appeal within one month from the date of receipt by him of this notification. ANY OTHER PERSON may appeal within twenty one days beginning on the date of this decision.

2. An appeal shall be in writing and shall state the subject matter and grounds of appeal. It should be addressed to:-

An Bord Pleanala,
Blocks 6 and 7,
Irish Life Centre,
Lower Abbey Street,
Dublin 1.

3. An appeal lodged by an applicant or his agent with An Bord Pleanala will be invalid unless accompanied by the prescribed fee.

(a) An appeal against a decision relating to commercial development by the person by whom the application was made must be accompanied by a fee.

"Commercial Development" means development for the purposes of any professional, commercial or industrial undertaking, development in connection with the provision for reward for services to persons or undertakings, or development consisting of the provision of two or more dwellings, but does not include development for the purposes of agriculture.

(b) An appeal other than an appeal mentioned at (a) above, including third party appeal must be accompanied by a fee.

(c) A party to an appeal making a request to An Bord Pleanala for an Oral Hearing of an appeal must, in addition to the prescribed fee, pay to An Bord Pleanala a fee.

(d) A person who is not a party to an appeal must pay a fee to An Bord Pleanala when making submissions or observations to An Bord Pleanala in relation to an appeal.

4. If the Council makes a decision to grant permission/approval and there is no appeal to An Bord Pleanala against this decision, PERMISSION/APPROVAL will be granted by the Council as soon as may be after the expiration of the period for the taking of such an appeal. If every appeal made in accordance with the Acts has been withdrawn, the Council will grant the PERMISSION/APPROVAL after the withdrawal.

5. From 17th February, 1992, fees payable to An Bord Pleanala are as follows:

(a) Appeal against a decision of a Planning Authority on a planning application relating to commercial development, by the person by whom the application was made.	£200.00
(b) Appeals other than an appeal mentioned at (a).	£100.00
(c) Reference	£100.00
(d) Request for a determination.	£100.00
(e) Reduced Fee.	£50.00
(f) Submissions or observations.	£30.00
(g) Request for an oral hearing.	£50.00

Reg. Ref. 91A/0349
Decision Order No. P/ 4253 /92
Page No: 0002



Bloc 2, Ionad Bheatha na hEireann,
Bloc 2, Irish Life Centre,
Sraid na Mainistreach Iacht,
Lower Abbey Street,
Baile Atha Cliath 1.
Dublin 1.
Telephone (01) 724755
Fax (01) 724896

CONDITIONS / REASONS

- 01 The development to be carried out in its entirety in accordance with the plans, particulars and specifications lodged with the application, as amended by additional information received on 20th May 1992 and 04.08.92, save as may be required by the other conditions attached hereto.
REASON: To ensure that the development shall be in accordance with the permission and that effective control be maintained.
- 02 That the proposed house be used as a single dwelling unit.
REASON: To prevent unauthorised development.
- 03 That a financial contribution in the sum of £800.00 be paid by the applicant to Dublin County Council towards the improvement of the road network in the area of the proposed development, and which will facilitate this development. This contribution to be paid prior to the commencement of development on site.
REASON: The provision of such services in the area by the Council will facilitate the proposed development. It is considered reasonable that the developer should contribute towards the cost of providing the services.
- 04 That a financial contribution in the sum of £375.00 be paid by the proposer to the Dublin County Council towards the cost of provision of public services in the area of the proposed development and which facilitate this development; this contribution to be paid before the commencement of development on the site.
REASON: The provision of such services in the area by the Council will facilitate the proposed development. It is considered reasonable that the developer should contribute towards the cost of providing the services.
- 05 The following requirements of the Environmental Services Department shall be adhered to:-
(i) The irrigation area being located closer to the boundary wall with Greenhills Road than is indicated on the drawing submitted to Environmental Services on 4th August, 1992.
(ii) The applicant entering into an on going maintenance contract with the manufacturer.
(iii) A certificate of satisfactory completion being supplied before occupancy takes place.
(iv) AN acceptable foul sewer infrastructure being installed for the entire set of sites which would enable each of the three dwellings to connect to any sewer system which may be installed on the lands lying to the west in the future, such infrastructure to terminate in a manhole at the site boundary.
- 05 REASON: In the interest of the proper planning and development of the area.



Bloc 2, Ionad Bheatha na hEireann,
Bloc 2, Irish Life Centre,
Sraid na Mainistreach Iacht,
Lower Abbey Street,
Baile Atha Cliath 1.
Dublin 1.
Telephone (01) 724755
Fax (01) 724896

Reg.Ref. 91A/0349
Decision Order No. P/ 4253 /92
Page No: 0003

06 Heating to be provided by the use of either oil, gas, electricity or by smokeless fuels in fireplaces or appliances suitable only for burning solid smokeless fuels.

REASON: In the interest of reducing air pollution.

07 That the garage be used solely for purposes incidental^{AL} to the enjoyment of the dwelling house as such.

07 REASON: In the interest of the proper planning and development of the area.



Bloc 2, Ionad Bheatha na hEireann,
Bloc 2, Irish Life Centre,
Sraid na Mainistreach Iacht,
Lower Abbey Street,
Baile Atha Cliath 1,
Dublin 1.
Telephone (01) 724755
Fax (01) 724896

Register Reference : 91A/0349

Date Received : 20th May 1992

Applicant : J. Harvey

Development : Bungalow and waste water treatment system

Location : Greenhills Road, Dublin 12.

Applicant : J. Harvey

App. Type : Additional Information

Date Recd : 20th May 1992

Dear Sir/Madam,

With reference to your planning application received here on 20.05.92 in connection with the above, I wish to inform you that:-
In accordance with section 26(4A) of the Local Government(Planning and Development) Act 1963, as amended by Section 39(F) of the Local Government (Planning and Development) Act, 1976 the period for considering this application within the meaning of subsection (4A) of Section 26 has been extended up to and including the 09.09.92.

Yours faithfully,

PRINCIPAL OFFICER

Date : 6/8/92

Fuller & Jermyn, Architects,
110 Baggot Lane,
Ballsbridge,
Dublin 4.



Fuller and Jermyn : Architects

110 Baggot Lane, Ballsbridge, Dublin 4

telephone 600429

Fax 602082.

4th August 1992.

The Principal Officer,
Planning Department,
Dublin County Council,
Irish Life Centre,
Lower Abbey Street,
Dublin 1.


Re:- 2 Bungalows and Waste Water Treatment Systems - Greenhills
Road, Dublin 12 - J. Harvey.

Register Reference Nos. 91A/0340
91A/0349

Dear Sir,

We wish to extend the time for consideration of these
two Applications by a further month to the 9th September 1992.

Yours faithfully,


ROGER JERMYN.



Bloc 2, Ionad Bheatha na hEireann,
Bloc 2, Irish Life Centre,
Sraid na Mainistreach Iacht,
Lower Abbey Street,
Baile Atha Cliath 1,
Dublin 1.
Telephone (01) 724755
Fax (01) 724896

Register Reference : 91A/0349

Date Received : 20th May 1992

Applicant : J. Harvey

Development : Bungalow and waste water treatment system

Location : Greenhills Road, Dublin 12.

Applicant : J. Harvey

App. Type : Additional Information

Date Recd : 20th May 1992

Dear Sir/Madam,

With reference to your planning application received here on 20.05.92 in connection with the above, I wish to inform you that:-
In accordance with Section 26(4A) of the Local Government (Planning and Development) Act 1963, as amended by Section 39(F) of the Local Government (Planning and Development) Act, 1976 the period for considering this application within the meaning of subsection (4A) of section 26 has been extended up to and including the 09.08.92.

Yours faithfully,

PRINCIPAL OFFICER

Date : 20/5/92

Fuller & Jermyn, Architects,
110 Baggot Lane,
Ballsbridge,
Dublin 4.



Fuller and Jermyn : Architects

110 Baggot Lane, Ballsbridge, Dublin 4

telephone 600429

Fax 602082

9th July 1992.

For attention of Mr. Jerry Richards.

Planning Department,
Dublin County Council,
Irish Life Centre,
Lower Abbey Street,
Dublin 1.

Re: Two Bungalows and Waste Water Treatment Systems at
Greenhills Road, Dublin 12.

Register Reference : 91 A/0349 and 91 A/0340.

Dear Mr. Richards,

Further to our telephone conversation of today, whereas
you requested a time Extension and it was suggested that the
two Applications for Planning Approval should be extended
by one calendar month; this is agreed by me.

Yours sincerely,

ROGER JERMYN

DUBLIN COUNTY COUNCIL
PLANNING DEPT.
10 JUL 1992
RECEIVED

Building Control Department,
Liffey House,
Tara Street,
Dublin 1.
Telephone: 773066



Bloc 2, Ionad Bheatha na hEireann,
Bloc 2, Irish Life Centre,
Sraid na Mainistreach Iacht,
Lower Abbey Street,
Baile Atha Cliath 1,
Dublin 1.
Telephone (01) 724755
Fax (01) 724896

Register Reference : 91A/0349

Date : 22nd May 1992

LOCAL GOVERNMENT (PLANNING AND DEVELOPMENT) ACTS, 1963 TO 1991

Dear Sir/Madam,

DEVELOPMENT : Bungalow and waste water treatment system

LOCATION : Greenhills Road, Dublin 12.

APPLICANT : J. Harvey

APP. TYPE : Additional Information

With reference to the above, I acknowledge receipt of additional information received on 20th May 1992.

Yours faithfully,

.....
for PRINCIPAL OFFICER

Fuller & Jermyn, Architects,
110 Baggot Lane,
Ballsbridge,
Dublin 4.



Fuller and Jermyn : Architects

110 Baggot Lane, Ballsbridge, Dublin 4

telephone 600429

Fax 602082.

12th May 1992.

ADDITIONAL INFORMATION.

Planning Department,
Dublin County Council,
Irish Life Centre,
Lower Abbey Street,
Dublin 1.

91A/349 & 91A/340
1.4.0
A.1

Re:- Proposed Bungalows and Waste Water Treatment - Greenhills Road, Dublin 12.

Registry Reference 91A/0349

Registry Reference 91/A0340.

Dear Sirs,

Further to having a number of consultations with Officials in the Environmental Health Department and finally receiving **ADDITIONAL INFORMATION** from the Manufacturers of the Biocycle Waste Water treatment Systems, it is now proposed that the percolation would not be as previously specified by means of distribution pipes running at ground level, but that they be inserted into 50 M.M. Wavin field drain pipes which would be inserted just under grass sod level in order to achieve an evaporation rather than soakage.

We have also shown on the Drawing the tree Survey as requested.

Yours faithfully,


ROGER JERMYN.





Bloc 2, Ionad Bheatha na hEireann,
Block 2, Irish Life Centre,
Sraid na Mainistreach Iacht,
Lower Abbey Street,
Baile Atha Cliath 1.
Dublin 1.
Telephone. (01)724755
Fax. (01)724896

Decision Order Number : P/ 2013 /91 Date of Decision : 8th May 1991

Register Reference : 91A/0349

Date Received : 14th March 1991

Applicant : J. Harvey

Development : Bungalow and waste water treatment system

Location : Greenhills Road, Dublin 12.

Dear Sir/Madam,

With reference to your planning application, received here on 14.03.91 in connection with the above, I wish to inform you, that before the application can be considered under the Local Government (Planning and Development) Acts 1963 - 1990, the following additional information must be submitted in quadruplicate:-

- 01 The applicant is requested to provide the following additional information in relation to the proposed system of foul drainage: (a) Applicant is requested to provide details of the irrigation system proposed, its nature and its size. Applicant should consult Sanitary Services Department of Dublin County Council and the Supervising Environmental Health Officer, Eastern Health Board (Tel. 727777) before submitting details. (b) Applicant is requested to submit the location of the irrigation area and to indicate if the chosen location can accommodate an irrigation area to the size required by the system proposed. (c) Applicant is to indicate if he intends to enter into a maintenance contract on an on-going basis for the proposed.
- 02 In relation to surface water drainage the following information is required: (a) Applicant is requested to provide details of the French drain proposed.
- 03 Applicant is requested to submit evidence that the site is suitable for the Biocycle System which is proposed for it.
- 04 Applicant is requested to submit details that Condition No. 3 of Outline Permission, Reg. Ref. 87A/1089, Decision Order P/3763/87, has been complied with.
- 05 Applicant is requested to submit a tree survey of the 1.125 acre site

Fuller & Jermyn, Architects,
110 Baggot Lane,
Ballsbridge,
Dublin 4.



Bloc 2, Ionad Bheatha na hEireann,
Block 2, Irish Life Centre,
Sraid na Mainistreach Iacht,
Lower Abbey Street,
Baile Atha Cliath 1.
Dublin 1.
Telephone. (01)724755
Fax. (01)724896

Reg.Ref. 91A/0349

Decision Order No. P/ 2013 /91

Page No: 0002

and the survey is to include an assessment of the the conditions of the trees on the site, the conservation works required and the proposals for protecting them during development, in compliance with condition No. 4 of the Outline Permission Granted by Decision Order P/3763/87.

06 Applicant is requested to submit details of the site area.

Please mark your reply "ADDITIONAL INFORMATION" and quote the Reg. Ref. No. given above.

Yours faithfully,

A handwritten signature in cursive script, appearing to read "Rose Kennedy", written over a dotted line.

PRINCIPAL OFFICER

Date : 10/5/91



21st March 1991.

Planning Department,
Dublin County Council,
Irish Life Centre,
Lower Abbey Street,
Dublin 1.

RE: BUNGALOWS AND WASTE WATER TREATMENT SYSTEMS, GREENHILLS ROAD,
DUBLIN 12.

RE: REGISTER REFERENCE 91 A/0349
" " " 91 A/03440

Dear Sirs,

Further to your three letters of the 19th instant, I have to state all lands in both Applications are held Freehold.

It should also be noted that the Applications in both cases is for Planning Approval and not for Building Bye-Law Approval.

Yours faithfully,

ROGER JERMYN.

25 MAR 91



Bloc 2, Ionad Bheatha na hEireann,
Block 2, Irish Life Centre,
Sraid na Mainistreach Iacht,
Lower Abbey Street,
Baile Atha Cliath 1.
Dublin 1.
Telephone. (01)724755
Fax. (01)724896

Register Reference : 91A/0349

Date : 14th March 1991

Dear Sir/Madam,

Development : Bungalow and waste water treatment system

LOCATION : Greenhills Road, Dublin 12.

Applicant : J. Harvey

App. Type : APPROVAL/BUILDING BYE-LAW APPROVAL

Date recd. : 14th March 1991

I refer to your planning application in connection with the above.
You have omitted to state your/your client's legal interest in this
property, (i.e. whether freehold, leasehold etc.).
This information is required to comply with Article 17 of the Local
Government (Planning and Development) Regulations 1977.

Please submit this information at your earliest convenience.

Yours faithfully,

.....
PRINCIPAL OFFICER

Fuller & Jermy, Architects,
110 Baggot Lane,
Ballsbridge,
Dublin 4.

Building Control Department,
Liffey House,
Tara Street,
Dublin 1.
Telephone: 773066



Bloc 2, Ionad Bheatha na hEireann,
Block 2, Irish Life Centre,
Sraid na Mainistreach Iacht,
Lower Abbey Street,
Baile Atha Cliath 1.
Dublin 1. ...
Telephone: (01)724755
Fax: (01)724896

Register Reference : 91A/0349

Date : 14th March 1991

LOCAL GOVERNMENT (PLANNING AND DEVELOPMENT) ACTS, 1963 TO 1990

Dear sir/Madam,

DEVELOPMENT : Bungalow and waste water treatment system

LOCATION : Greenhills Road, Dublin 12.

APPLICANT : J. Harvey

APP. TYPE : APPROVAL/BUILDING BYE-LAW APPROVAL

With reference to above, I acknowledge receipt of your application received on 14th March 1991.

Yours faithfully,

.....
PRINCIPAL OFFICER

Fuller & Jermyu, Architects,
110 Baggot Lane,
Ballsbridge,
Dublin 4.



12th March 1991.

NIL

The Principle Officer,
Planning Department,
Dublin Co. Council,
Irish Life Centre,
Lower Abbey Street,
Dublin.

RE: PROPOSED BUNGALOW AT GREENHILLS ROAD, DUBLIN 12 - J. HARVEY.
PLANNING REGISTER REFERENCE 87A/1089

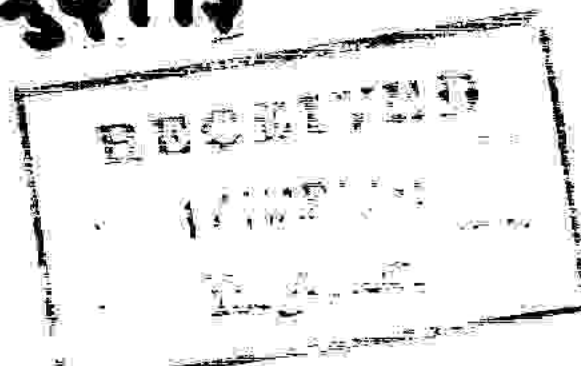
Dear Sirs,

We have been instructed by our client to submit for Planning Approval for Bungalow and Waste Water treatment System. We are submitting part of the Specification in regard to a Biocycle 5100 litres Waste Water treatment system. I have had discussions with Officials of the Eastern Health Board who are well aware of this system and have the complete Specification for the system.

Yours faithfully,

Roger Jermyn
ROGER JERMYN.

132
13/3
N 34199



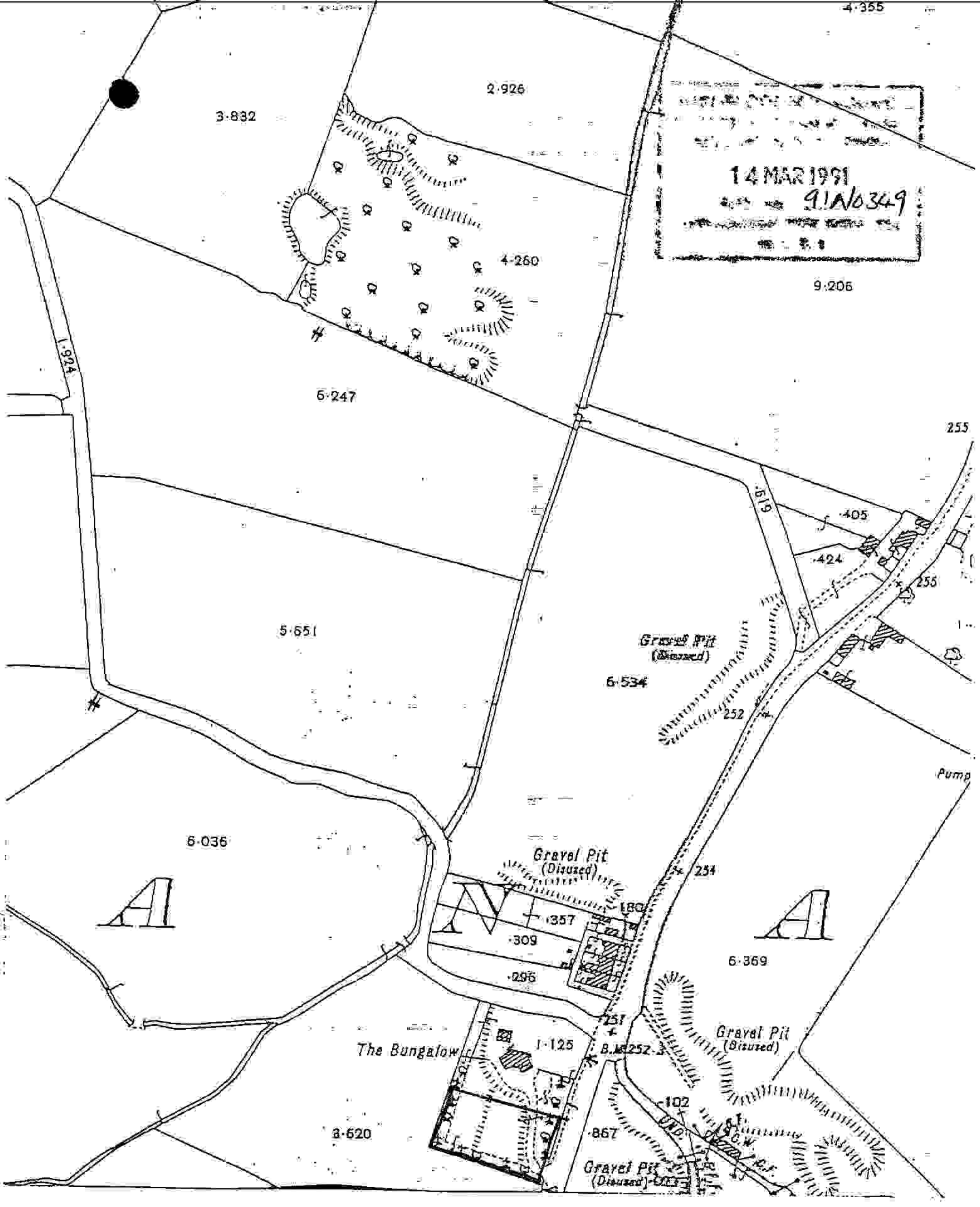
Incl. heres
14/3/91

APP. / BBL
1-12-4
91A/ 0349

14/3

22/1.

DUBLIN Planning approval is sought for bungalow and waste water treatment system at Greenhills Road, J. Harvey.



Proposed Bungalow, Greenhills Road, Dublin 12. J. Harvey.

Scale 1:2500.

14 MAR 1991
UN 6349

SPECIFICATION

AND TYPICAL DETAILS OF
SINGLE TANK SYSTEMS

BIOCYCLE 5100 LITRE

WASTEWATER TREATMENT SYSTEM.

General

The Biocycle 5100 litres system is a packaged Waste Water Treatment Plant for domestic applications where mainline sewage is not available or where the soil types or terrain do not suit conventional site disposal systems but particularly where environmental damage wishes to be avoided.

The System is designed and installed in accordance with the British Standards code of practice for "Design and Installation of small sewage treatment works and cesspools" (B.S. 6297: 1983)

The Unit provides for a retention period of four days and has an actual working capacity of 5100 litres. In addition, the System has a further capacity of 2,400 litres to cater for any overflow resulting from power failure which provides for over two days use before action must be taken to avoid overflow. However, even if the system overflows there are sufficient chlorine stocks within the system that dissolve as the liquid level rises and renders the overflow relatively harmless.

Design Criteria

The designed capacity for the Biocycle 5100 litres system is for up to 8 people.

The plant is designed to function automatically between routine service inspections.

The plant is designed to operate under the following loads

Hydraulic Loads

(a)	Average daily per capita flow	230 litres
(b)	Maximum per capita flow rate in any two hour period	125 litres

Biological Loads

(a)	Average daily per capita 5 day BOD	100 Grammes
(b)	Average daily per capita total suspended solids	100 Grammes

ELECTRICS

All electrical work is carried out in accordance with I.E.E. regulations.

MEDIA

The active surface of growth media per capita contained in the aerobic chamber is 4.05 m².

Specification sheets on the growth media used are enclosed.

TANK

The outer tank is designed and constructed from re-inforced pre cast concrete in accordance with B.S 8007 (design of concrete structures for retaining aqueous liquids).

INTERNAL/CHAMBERS

The main dividing "Bladder" and clarification/irrigation chambers are constructed from fibreglass in accordance with B.S. 4994 (vessels and tanks on reinforced plastics).

<u>Clarificiation Chamber:</u>	Height	1400mm
	Diameter	950mm
	Capacity	310 litres

<u>Irrigation Chamber:</u>	Height	1400mm
	Diameter	950mm
	Capacity	300 litres

AIR SYSTEMS

Pipework used for the fabrication of the aeration system, sludge return and top level skimmer are in accordance with B.S. 3505/4346

The compressor/blower used provides continuous supply of air at 95 litres/minute and has a power rating of 110 watts.

CHLORINATION SYSTEM

Chlorination takes place as effluent flows between the clarification and irrigation chambers.

The chlorinator unit is designed and calibrated to suit above normal suage and to provide sufficient chlorine stocks under maximum usage.

Safety factors are included to cover all foreseeable circumstances between maintenance calls with a 100% safety margin. Pipework and fittings used in the construction of the chlorinator are in accordance with local government requirements Eg. wavin pipe.

IRRIGATION SYSTEM

The submersible irrigation pump used has a capacity of 40-130 litres/minute and comes complete with its own float switch.

A specification sheet for the pump unit is enclosed.

Polyethelene pipework is used for the irrigation lines which are fitted with approximately 25-30 brass spray heads.



Biocycle Ltd.,
107 Baldoyle Industrial Estate,
Dublin 13.

THE IRISH SCIENCE AND TECHNOLOGY AGENCY
Glasnevin, Dublin 9, Ireland. Telephone 01-370101.
Fax 01-379620. Telex 32501.

Attention: Mr F Kavanagh.

Our Ref: R.6/07999E

5 April 1990.

Re: Biocycle Waste Water Treatment System.

Dear Mr Kavanagh,

Thank you for sending details of the above system for treating domestic waste water. We also acknowledge receipt of analytical results. Having examined two working units in North County Dublin we are in a position to comment on the Biocycle as a means of treating and disposing of domestic waste water.

In our opinion the system is superior to the conventional septic tank and percolation method for disposing of domestic waste water from single house dwellings. The septic tank is really only a settling tank and removes the pollution load associated with the solids. It does not remove the soluble organic load and this can only be removed or reduced by the percolation process in suitable conditions.

The Biocycle achieves degradation of the total organic load and the sludge produced will be stable i.e., it will have been self digested. The system is a mini-version of the modern method of effluent treatment used by the local authorities to treat municipal effluent i.e., biological oxidation. The principal difference is that the detention time per capita in the Biocycle is longer than in a local authority plant. Because of this the effluent from the Biocycle should be of higher quality. The effluent from the system will be of much better quality than that from a septic tank. Consequently the

risk of surface and groundwater pollution will be much reduced. As such the system is to be recommended.

We have examined the test reports submitted and the results (BOD removal greater than 90% and suspended solids removal greater than 80%) are in line with what we would have expected from this type of treatment system given the principal of operation and the retention time involved.

As you are probably aware there are areas in the country where conventional septic tanks and percolation are not suitable as a means of treating and disposing of domestic waste water. For example, bacteriological contamination of groundwater by the septic tank method of treatment is of increasing concern to the local authorities and health boards. Properly selected the Biocycle will be particularly suitable for such areas.

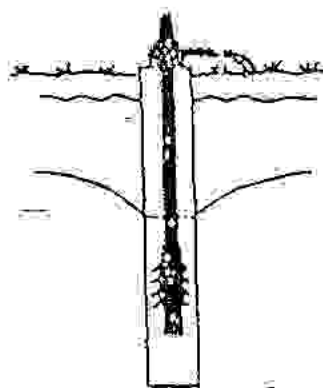
The fact that the Biocycle requires electrical power for the air blower and pump means that consideration must be given at each installation to the effects of power cuts and blower and pump malfunction. Even allowing for the capacity of the system to accept about 4 days of raw effluent after say a pump malfunction, it would be important to equip each installation with a high liquid level alarm, independently powered (eg., battery pack), to alert the house holder to a malfunction.

Yours sincerely,



Richard Foley,
Environmental Services.

rf/RF.



- Exploration
- Management
- Pollution
- News from abroad
- Development
- Quality
- Reviews
- Opinion Forum

- Taiscéalacha
- Bainistíocht
- Truailliú
- Nuacht idirnáisiúnta
- Forbairt
- Cáilíocht
- Athbhreithniú
- Tuairimí

Wished by the Geological Survey of Ireland,
19ars Bush, Haddington Rd.,
Dublin 4. ☎ (01) 609511

Foilsithe ag an Suirbháireacht Ghéolaíochta Éireann,
Tor an Bhacáigh, Búihar Haddington,
Baile Átha Cliath 4. ☎ (01) 609511

Edited by: Donal Daly.

No. 15. March, 1990

IN THIS ISSUE

NITRATES IN SURFACE WATER AND GROUNDWATER

Over 40% of the country is probably not suitable naturally - geologically or hydrogeologically - for the safe disposal of septic tank effluent. Yet location of septic tank systems in these areas has occurred, leading to surface water and groundwater contamination problems. Recently two systems, designed for the disposal of effluent from single dwellings, have been launched - the Biocycle and Puraflo systems (see pages 5 and 6). These may well provide an answer to many of the pollution problems associated with septic tank systems. They each cost £2,500-£3,000.

SUCCESSFUL DRILLING AT LANESBOROUGH

NEWS FROM ABROAD

"Climatic Extremes and their Effects on Water Resources" is the theme of the 1990 IAH Portlaoise seminar (page 8). This is particularly topical now as evidence for the "greenhouse effect" and its consequences is growing. The seminar will examine the effects of droughts and floods on both groundwater and surface water.

SEPTIC TANK EFFLUENT TREATMENT

The GSI maintains a national archive of earth science information, which is now being collated, assessed and produced on 1:25,000 scale bedrock maps. John Morris describes the availability and content of these maps on page 7.

GSI GEOLOGICAL MAPS

PORTLAOISE SEMINAR

The value of groundwater as a source of water supply has been proven yet again by successful drilling in Co. Roscommon (see article by Donal Marron on page 3). The assumed extension of the Burren limestone aquifer west of the Shannon from Co. Longford is now proven.

IAH NEWS

A questionnaire is enclosed with this issue of the Newsletter to enable the updating of the mailing list and to receive suggestions for improvements. If you find the Newsletter useful and wish to continue receiving it, you should return the questionnaire.

Editor.

UNITED STATES: EFFECT OF GROUNDWATER CONTAMINATION ON HOME VALUES

An assessment of home values in the town of Twin City, Nebraska, after groundwater contamination had occurred, gave the following valuation reductions:

- \$19,000 for properties which had levels of contamination severe enough to require the use of bottled water.
- \$12,000 for properties with trace levels that were under the threshold to require bottled water
- \$3,000 for properties in an area determined to have high potential risk.

Source: The Groundwater Newsletter of the Water Information Centre, Inc.
Vol. 18, No. 16.

Editor:

SEPTIC TANK EFFLUENT TREATMENT

THE BIOCYCLE SYSTEM: THE WIZARD OF OZ ARRIVES IN IRELAND

A chance viewing of the Australian television programme Beyond 2000, by a Dublin engineer has led to a new design in wastewater treatment being recently launched onto the Irish market. Christened the Biocycle, this system incorporates four separate concepts of wastewater treatment in one compartmentalised tank. These four concepts are as follows:-

1. Receiving chamber (anaerobic or septic).
2. Diffused aeration chamber.
3. Clarification or settlement chamber.
4. Chlorination and irrigation chamber.

Manufactured in Ireland by Biocycle Ltd. of Ballydoyle Industrial Estate, the Biocycle unit has a total capacity of 5000 litres for service to the average sized dwelling. Made from fibreglass or concrete, this Australian designed unit is currently being evaluated by the Environmental Science Unit, Trinity College under field conditions at Swords Co. Dublin.

The receiving chamber operates on similar lines to a septic tank where anaerobic conditions predominantly prevail in the removal of heavy solids. Passage to the adjoining chamber is by means of a submerged baffle, where 4 diffuse aerators are strategically placed, to handle a hydraulic loading of 2800 litres per day, or 0.7 Kg. B.O.D.; assuming an influent B.O.D.5 strength of 250 mg/l. The aeration chamber contains submerged biological media to assist in providing suitable conditions for growth of oxidising and nitrifying micro-organisms.

From the aeration chamber, the wastewater flows into the clarification tank where quiescent conditions allow for the settlement of lighter solids. By means of the venturi principle, the unit is designed to return settled material from this chamber back to the primary tank. This process is operated off the main air supply to the aeration chamber, and ensures a constant return of activated or aerated sludge to assist in the carbonaceous breakdown in the primary tank. Floating scum from the clarification chamber is also returned by this method.

The wastewater in the clarification chamber is drawn off below surface level and flows via a Chlorinator to the pump chamber. It is similar in design to the concept of Onsite chlorination tested by the U.S. E.P.A., where all wastewater comes in contact with two perpendicular stacks

containing calcium hypochlorite tablets. These stacks are adjustable by the user to the desired residual chlorine level, and to the hydraulic loading envisaged. Under normal household usage, each stack containing 29 tablets (70% active) is designed for 156 days treatment.

After chlorination, the wastewater passes to the pumping chamber which has a capacity of 300 litres and contains the irrigation pump and the warning alarm system. Designed to ensure a minimum retention period of 30 minutes at 0.5 mg/l free available chlorine, the pumping routine is regulated on a float switch from within the unit. Failure of the float-control pump to operate will activate the high water alarm in the control panel in the owners dwelling. The pumping system is designed to achieve a hydraulic head of approx. 4-50 metres, which can be very advantageous in rural settings where site contours prevent normal gravity flow.

The system also incorporates a rather untried option in Ireland of wastewater disposal - irrigation. The treated effluent is discharged by the pump through a 25mm hydrodare piping which is simply laid in the area of the garden to the owners wishes. Self tapping microjet sprayheads are inserted in the piping at regular intervals and with 25 such sprayheads the pump is capable of discharging up to 200 litres in a 10 minute period. More preferable irrigating locations are shrubberies, but play areas are not recommended.

The ongoing study of the Biocycle unit in Swords has revealed very good B.O.D. and suspended solids removal rates. After initial teething problems, recent effluent samples from this plant have had a final B.O.D.5 and suspended solids levels in single figures. Nitrification has not been achieved to any great extent. The short retention time of 2-3 days would appear to be the limiting factor for the optimum growth of the nitrifying bacteria, Nitrosomonas and Nitrobacter. Bacteriological examinations of the wastewater at different stages in the plant has revealed very good reductions in total and faecal coliforms in the final effluent.

The plant at Swords is in operation since September 1989 and serves a normal sized house with five occupants. There has been no mechanical faults with the unit to date and early indications would appear to suggest that this system has a role to play in the treatment of onsite wastewater.

The telephone number of Biocycle Limited is (01) 391000.

Dave O'Brien, Eastern Health Board

THE PURAFLOW SEPTIC TANK EFFLUENT TREATMENT SYSTEM IS LAUNCHED.

Mr. R. Molloy, T.D., Minister for Energy, officially launched the Puraflow Septic Tank Effluent Treatment System on 28th February. This System, which was developed by Bord na Mona, consists of a sump, pump and a group of specialised peat fibre biofilter modules which incorporate effluent distribution and odour control facilities. The system is designed to treat domestic sewage from individual dwellings, but can be expanded to suit hotels, caravan sites and small housing estates. Over 25 Puraflow Systems have been installed to date.

The telephone number of Puraflow Limited is (0903)4200.

Donal Daly, Geological Survey of Ireland.