

SITE CHARACTERISATION FORM

COMPLETING THE FORM

Step 1:

Clear Form

Goto Menu Item **File, Save As** and save the file under a reference relating to the client or the planning application reference if available.

Use the **Clear Form** button to clear all information fields.

Notes:

All calculations in this form are automatic.

Where possible information is presented in the form of drop down selection lists to eliminate potential errors.

Variable elements are recorded by tick boxes. In all cases only one tick box should be activated.

All time record fields must be entered in twenty hour format as follows: HH:MM.

All date formats are DD/MM/YYYY.

All other data fields are in text entry format.

This form can be printed out fully populated for submission with related documents and for your files. It can also be submitted by email.

Section 3.2

In this section use an underline _____ across all six columns to indicate the depth at which changes in classification / characteristics occur.

Section 3.4

Lists supporting documentation required.

Section 4

Select the treatment systems suitable for this site and the discharge route.

Section 5

Indicate the system type that it is proposed to install.

Section 6

Provide details, as required, on the proposed treatment system.

SITE CHARACTERISATION FORM

File Reference:

Prefix: First Name: Surname:

Address:
 Site Location and Townland:

Telephone No: Fax No:

E-Mail:

Maximum no. of Residents: No. of Double Bedrooms: No. of Single Bedrooms:

Proposed Water Supply: Mains ☐ Private Well/Borehole: ☒ Group Well/Borehole: ☐

Soil Type, (Specify Type):

Aquifer Category: Regionally Important ☐ Locally Important ☒ Poor ☐

Vulnerability: Extreme ☐ High ☐ Moderate ☐ Low ☒ High to Low ☐ Unknown ☐

Bedrock Type:

Name of Public/Group Scheme Water Supply within 1 km:

Groundwater Protection Scheme (Y/N): ☒ Source Protection Area: SI ☐ SO ☐

Groundwater Protection Response:

Presence of Significant Sites
(Archaeological, Natural & Historical):

Past experiences in the area:

Comments:
(Integrate the information above in order to comment on: the potential suitability of the site; potential targets at risk; and/or any potential site restrictions)

Note: Only information available at the desk study stage should be used in this section.

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3.1 Visual Assessment

Landscape Position: UNDULATING LANDSCAPE

Slope: Steep (>1:5) ☐ Shallow (1:5-1:20) ☒ Relatively Flat (<1:20) ☐

Surface Features within a minimum of 250m (Distance To Features Should Be Noted in Metres)

Houses: EXISTING POOL AS INDICATED ON D.S. PLAN AT HOUSE IS RARE

Existing Land Use: BARBERS

Vegetation Indicators: NO EVIDENCE OF ANY RUSH GROWTH ON SITE

Groundwater Flow Direction: FLows IN A NORTH WEST DIRECTION

Ground Condition: GOOD

Site Boundaries: EXISTING HEDGES Roads: PRIVATE ACCESS OF REGIONAL ROAD

Outcrops (Bedrock And/Or Subsoil): NONE

Surface Water Ponding: NONE Lakes: SMALL POND NORTH EAST OF SITE

Beaches/Shellfish: NONE Areas/Wetlands: NONE

Karst Features: NONE Watercourse/Stream*: NONE

Drainage Ditches*: NATURAL Springs / Wells*: EXISTING WELL ADJACENT TO YARD

Comments:
(Integrate the information above in order to comment on: the potential suitability of the site, potential targets at risk, the suitability of the site to treat the wastewater and the location of the proposed system within the site)

FROM THE VISUAL ASSESSMENT IT WOULD INDICATE THAT THE PROPOSED SITE IS SUITABLE FOR A CONVENTIONAL SEPTIC TANK & SOIL PERCOLATION AREA.

*Note and record water level

COOL AREA ON SITE

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3.2 Trial Hole (should be a minimum of 2.1m deep (3m for regionally important aquifers))

To avoid any accidental damage, a trial hole assessment or percolation tests should not be undertaken in areas, which are at or adjacent to significant sites (e.g. NHAs, SACs, SPAs, and/or Archaeological etc.), without prior advice from National Parks and Wildlife Service or the Heritage Service.

Depth of trial hole (m): 2.2

Depth from ground surface
to bedrock (m) (if present): NONE

Depth from ground surface
to water table (m) (if present): NONE

Depth of water ingress: NONE Rock type (if present): NONE

Date and time of excavation: 13/2/2012 10.00 Date and time of examination: 13/2/2012 10.30

Depth of P/T Test*	Soil/Subsoil Texture & Classification**	Plasticity and dilatancy***	Soil Structure	Density/ Compactness	Colour****	Preferential flowpaths
0.1 m	Top Soil	Location of tests	Crumbly	Low	Brown	NONE
0.2 m	CLAY		STRUCTURE			NOTED
0.3 m						
0.4 m						
0.5 m	Brown					
0.6 m	CLAY					
0.7 m	SOIL					
0.8 m	#					
0.9 m						
1.0 m						
1.1 m	SMALL					
1.2 m	(SOIL) LBS					
1.3 m		Location of tests			Blown to LBS	
1.4 m						
1.5 m						
1.6 m						
1.7 m						
1.8 m						
1.9 m			Substrate			no WATER
2.0 m			silica			but
2.1 m			granular			Under P.T.
2.2 m						on
2.3 m						13/2/2012
2.4 m						
2.5 m						
2.6 m						
2.7 m						
2.8 m						
2.9 m						
3.0 m						

Evaluation:

THE SITE WOULD APPEAR TO HAVE REASONABLE
ATTENUATION. NO WATER ENCOUNTERED & NO EVIDENCE
OF MOTTLED OCCURRING

Likely T value:

Note: *Depth of percolation test holes should be indicated on log above. (Enter P or T at depths as appropriate).

** See Appendix C for BS 5930 classification.

*** 3 samples to be tested for each horizon and results should be entered above for each horizon.

**** All signs of mottling should be recorded.

3.4 The following associated Maps, Drawings and Photographs should be appended to this site characterisation form.

1. Discovery Series 1:50,000 Map indicating overall drainage, groundwater flow direction and housing density in the area.
2. Supporting maps for vulnerability, aquifer classification, soil, bedrock.
3. North point should always be included.
4. (a) Sketch of site showing measurements to Trial Hole location and
(b) Percolation Test Hole locations.
(c) wells and
(d) direction of groundwater flow (if known),
(e) proposed house (incl. distances from boundaries)
(f) adjacent houses,
(g) watercourses,
(h) significant sites
(i) and other relevant features.
5. Cross sectional drawing of the site and the proposed layout¹ should be submitted.
6. Photographs of the trial hole, test holes and site (date and time referenced).

¹ The calculated percolation area or polishing filter area should be set out accurately on the site layout drawing in accordance with the code of practice's requirements.



Integrate the information from the desk study and on-site assessment (i.e. visual assessment, trial hole and percolation tests) above and conclude the type of system(s) that is (are) appropriate. This information is also used to choose the optimum final disposal route of the treated wastewater.

Not Suitable for Development ☐

Suitable for¹

1. Septic tank system (septic tank and percolation area)



Discharge Route

EXISTING GROUND

2. Secondary Treatment System

a. septic tank and filter system constructed on-site and polishing filter; or



WATER OF PERCOLATION PIPES

b. packaged wastewater treatment system and polishing filter



Propose to install:

NEW SEPTIC TANK & PERCOLATION PIPE SYSTEM

and discharge to:

GROUND WATER (EXISTING GROUND)

Trench Invert level (m):

0.80 M BELOW EXISTING GROUND LEVEL

Site Specific Conditions (e.g. special works, site improvement works testing etc.)

PERCOLATION PIPES TO BE LAID IN ACCORDANCE WITH THE ATTACHED LETTER & SKETCH.

¹ note: more than one option may be suitable for a site and this should be recorded

² A discharge of sewage effluent to "waters" (definition includes any or any part of any river, stream, lake, canal, reservoir, aquifer, pond, watercourse or other inland waters, whether natural or artificial) will require a licence under the Water Pollution Acts 1977-80. Refer to Section 2.6.2.

SYSTEM TYPE: Septic Tank System

Tank Capacity (m³) **3.08**

Percolation Area

Mounded Percolation Area

No. of Trenches

3

No. of Trenches

Length of Trenches (m)

54

Length of Trenches (m)

Invert Level (m)

0.80

Invert Level (m)

*No 3 18.0 METERS
LONG TRENCHES
SPACED AT 2.5 METERS
C TO C.*

SYSTEM TYPE: Secondary Treatment System

Filter Systems

Media Type

Area (m²)*

Depth of Filter

Invert Level

Sand/Soil

Soil

Constructed Wetland

Other

Package Treatment Systems

Type

Capacity PE

Sizing of Primary Compartment

m³

SYSTEM TYPE: Tertiary Treatment System

Polishing Filter: Surface Area (m²)

or Gravity Fed:

No. of Trenches

Length of Trenches (m)

Invert Level (m)

Package Treatment System: Capacity (pe)

Constructed Wetland: Surface Area (m²)

DISCHARGE ROUTE:

Groundwater

☒

Hydraulic Loading Rate* (l/m².d)

Surface Water**

☐

Discharge Rate (m³/hr)

TREATMENT STANDARDS:

Treatment System Performance Standard (mg/l)

BOD

SS

NH₃

Total N

Total P

QUALITY ASSURANCE:

Installation & Commissioning

On-going Maintenance

*CONTRACTOR TO HAVE A MINIMUM
OF 12 MONTHS DEFECTS LIABILITY
PERIOD AFTER COMMISSIONING OF
SEPTIC TANK & PERCOLATION PIPES*

*CLEANING OF SEPTIC TANK
BY RIGGER OWNER TO BE
PROGRAMMED ANNUALLY*

* Hydraulic loading rate is determined by the percolation rate of subsoil

** Water Pollution Act discharge licence required

Westinghouse CO. Counsel Only
For inspection purposes only
Consent of copyright owner required for any other use

Signature

Noel Jay

Indemnity Insurance Number

PL046582575 HFC INTERNATIONAL LIMITED

Phone

(081) 2538582

Fax

e-mail

jay.engineering@gmail.com

Date of Report

11/3/2012

Qualifications/Experience

COMPTON'S ENGINEER

Address

Westinghouse, Dwight Williams & Westinghouse

Prefix

NIC

First Name

NOEL

Surname

JAY

Company

NOEL JAY

2.2(b) Percolation ("P") Test for Shallow Soil / Subsoils and/or Water Table

Step 1: Test Hole Preparation

Percolation Test Hole

	1	2	3
Depth from ground surface to top of hole (mm)	10	30	40
Depth from ground surface to base of hole (mm)	445	455	460
Depth of hole (mm)	435	425	420
Dimensions of hole (length x breadth (mm))	310 x 340	315 x 335	309 x 320

Step 2: Pre-Soaking Test Holes

Date and Time

pre-soaking started

13/2/2012 10.40 13/2/2012 10.45 13/2/2012 10.48

Each hole should be pre-soaked twice before the test is carried out. Each hole should be empty before refilling.

Step 3: Measuring P_{100}

Percolation Test Hole No.

	1	2	3
Date of test	14/2/2012	14/2/2012	14/2/2012
Time filled to 400 mm	9.35	9.32	9.38
Time water level at 300 mm	10.45	10.47	10.54
Time to drop 100 mm (P_{100})	70	75	76

Average P_{100}

If $P_{100} > 300$ minutes then T-value > 90 - site unsuitable for discharge to ground

If $P_{100} < 210$ minutes then go to Step 4;

If $P_{100} > 210$ minutes then go to Step 5;



Step 4: Standard Method (where $P_{100} \leq 210$ minutes)

Percolation Test Hole	1			2			3				
Fill no.	Start Time (at 300 mm)	Finish Time (at 200 mm)	Δp (min)	Start Time (at 300 mm)	Finish Time (at 200 mm)	Δp (min)	Start Time (at 300 mm)	Finish Time (at 200 mm)	Δp (min)		
1	10.46	11.59	73	10.49	12.54	76	11.00	12.18	78		
2	11.59	1.00	71	12.56	2.10	74	12.20	1.34	74		
3	1.15	2.40	70	2.15	3.27	72	1.40	2.56	76		
Average Δp Value	71			74			76				
Average $\Delta p/4 =$ [Hole No.1] 17.75 (p_1)				Average $\Delta p/4 =$ [Hole No.2] 18.50 (p_2)				Average $\Delta p/4 =$ [Hole No.3] 19.00 (p_3)			

Result of Test: $P = 18.42$ (min/25 mm)

Comments:

Top of ground appears to be relatively sealed and may be due to excessive use of Pick Sealing which may have affected the top layer of ground.

Step 5: Modified Method (where $P_{100} > 210$ minutes)

Percolation Test Hole No.	1				2				3			
Fall of water in hole (mm)	Time Factor $= T_1$	Time of fall (mins) $= T_m$	$K_{10} = T_1 / T_m$	P_{100} Value $= 4.45 / K_{10}$	Time Factor $= T_1$	Time of fall (mins) $= T_m$	$K_{10} = T_1 / T_m$	P_{100} Value $= 4.45 / K_{10}$	Time Factor $= T_1$	Time of fall (mins) $= T_m$	$K_{10} = T_1 / T_m$	P_{100} Value $= 4.45 / K_{10}$
300 - 250	8.1				8.1				8.1			
250 - 200	9.7				9.7				9.7			
200 - 150	11.9				11.9				11.9			
150 - 100	14.1				14.1				14.1			
Average P_{100} Value	P_{100} Value Hole 1 = (p_1)				P_{100} Value Hole 1 = (p_2)				P_{100} Value Hole 1 = (p_3)			

Result of Test: $P =$ (min/25 mm)

Comments:

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Step 4: Standard Method (where $T_{100} = 210$ minutes)

Percolation Test Hole	1			2			3				
Fill no.	Start Time (at 300 mm)	Finish Time (at 300 mm)	Δt (min)	Start Time (at 300 mm)	Finish Time (at 200 mm)	Δt (min)	Start Time (at 300 mm)	Finish Time (at 200 mm)	Δt (min)		
1	10.25	11.18	53	10.15	10.53	38	10.28	11.11	43		
2	11.20	12.09	49	10.55	11.37	42	11.15	11.57	42		
3	12.15	1.06	51	11.40	12.23	43	12.01	12.46	45		
Average Δt Value			51			41			43		
Average $\Delta t/4 =$ (Hole No 1)				Average $\Delta t/4 =$ (Hole No 2)				Average $\Delta t/4 =$ (Hole No 3)			
12.75 (t)				10.25 (t)				10.75 (t)			

Result of Test: $T = 11.25$ (min/25 mm)

Comments:

Step 5: Modified Method (where $T_{100} = 210$ minutes)

Percolation Test Hole No.	1				2				3			
Fall of water in hole (mm)	Time Factor $= T_1$	Time of fall (mins) $= T_2$	$K_p = T_1 / T_2$	T-Value $= 4.45 / K_p$	Time Factor $= T_1$	Time of fall (mins) $= T_2$	$K_p = T_1 / T_2$	T-Value $= 4.45 / K_p$	Time Factor $= T_1$	Time of fall (mins) $= T_2$	$K_p = T_1 / T_2$	T-Value $= 4.45 / K_p$
300 - 250	8.1				8.1				8.1			
250 - 200	9.7				9.7				9.7			
200 - 150	11.9				11.9				11.9			
150 - 100	14.1				14.1				14.1			
Average T-Value	T-Value Hole 1= (t) 0.00				T-Value Hole 1= (t) 0.00				T-Value Hole 1= (t) 0.00			

Result of Test: $T = 0.00$ (min/25 mm)

Comments:

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3.3(a) Percolation ("T") Test for Deep Subsoils and/or Water Table

Step 1: Test Hole Preparation

Percolation Test Hole

	1	2	3
Depth from ground surface to top of hole (mm) (A)	100	655	670
Depth from ground surface to base of hole (mm) (B)	1100	1055	1070
Depth of hole (mm) [B - A]	1000	400	400
Dimensions of hole (length x breadth (mm))	305 x 300	300 x 300	300 x 300

Step 2: Pre-Soaking Test Holes

Date and Time pre-soaking started

13/2/2012	10.36	13/2/2012	10.40	13/2/2012	10.45
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Each hole should be pre-soaked twice before the test is carried out. Each hole should be empty before refilling.

Step 3: Measuring T_{100}

Percolation Test Hole No.

	1	2	3
Date of test	13/2/2012	13/2/2012	13/2/2012
Time filled to 400 mm	9.20	9.32	9.35
Time water level at 300 mm	10.20	10.12	10.23
Time to drop 100 mm (T_{100})	50	40	48
Average T_{100}			46

If $T_{100} > 300$ minutes then T-value > 90 - site unsuitable for discharge to ground

If $T_{100} \leq 210$ minutes then go to Step 4

If $T_{100} > 210$ minutes then go to Step 5





Geological Survey of Ireland - Groundwater

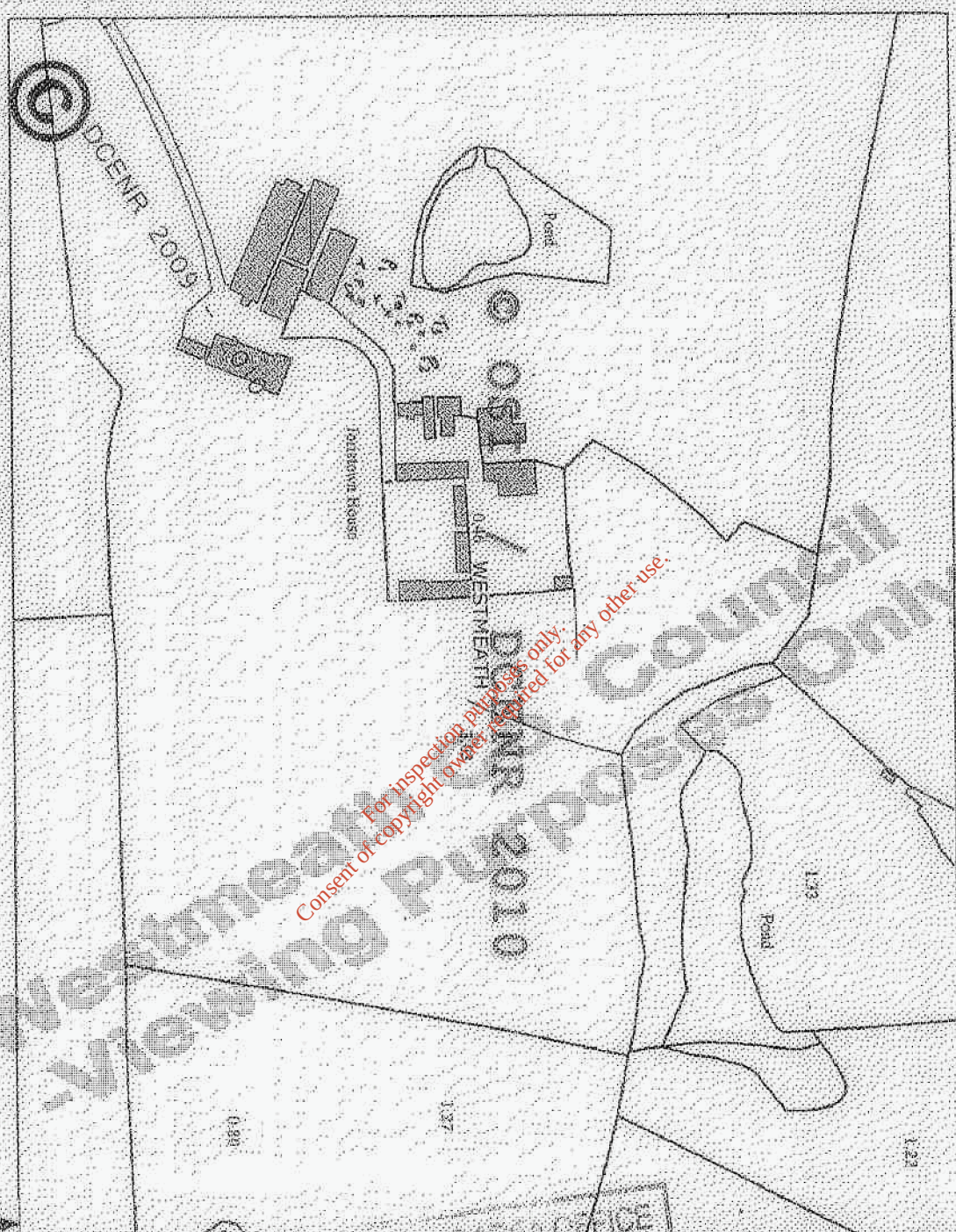


Legend
☐ County Boundaries
☐ Watermark

**LOCATION OF
WEST HOLLES**

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Map center: 258862, 253067

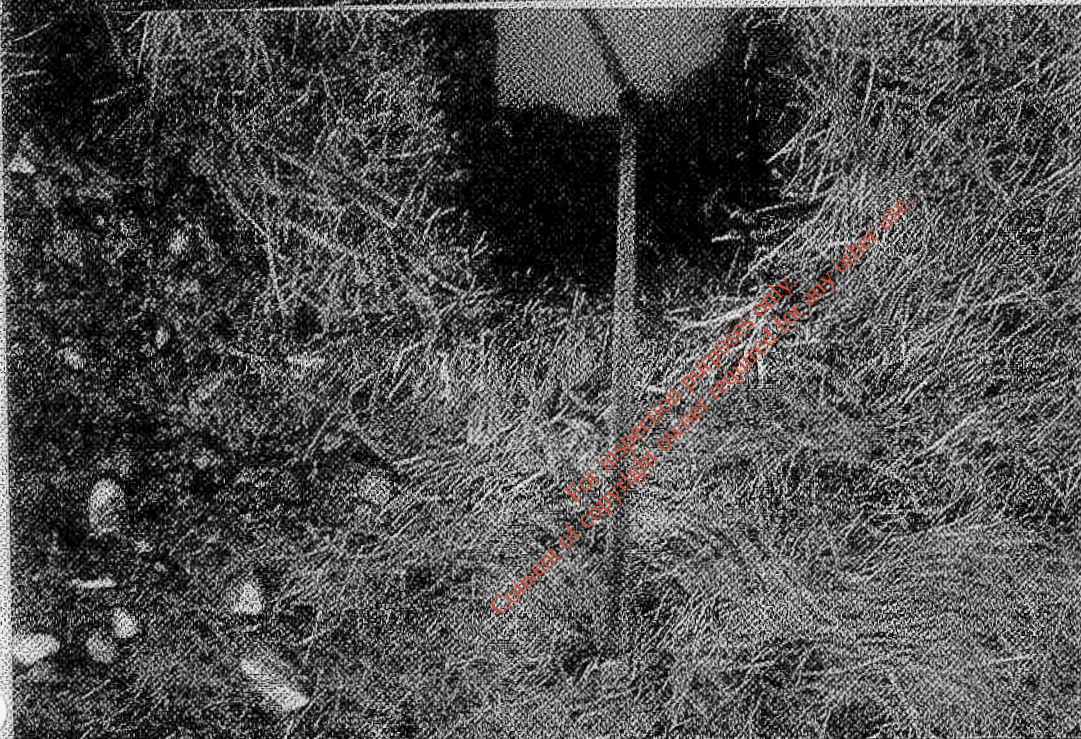
Scale: 1:2,500

Snapshot Date: 12-Feb-2012

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P. Testi
Site

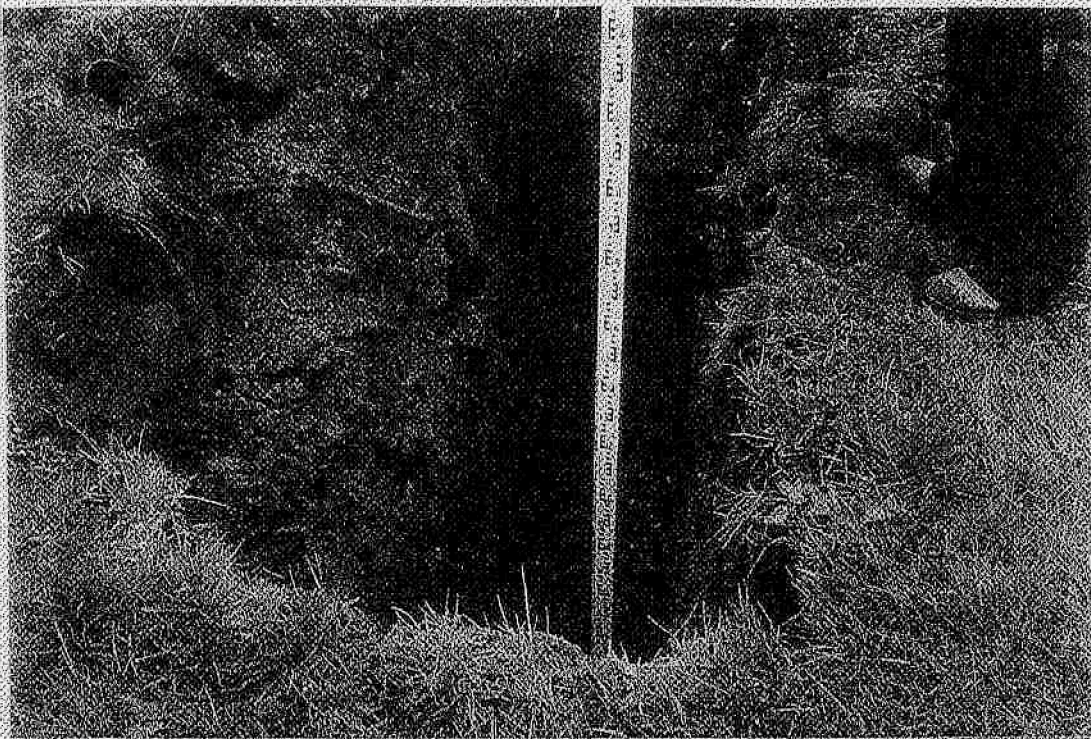


P. Testi
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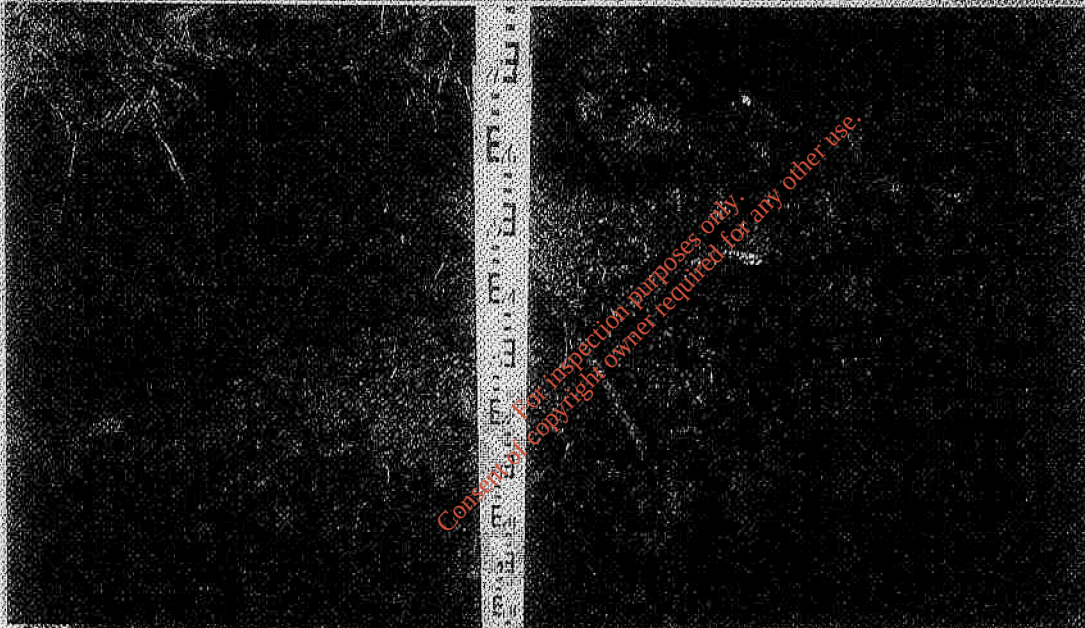


P. Testi
Site

11-20-00

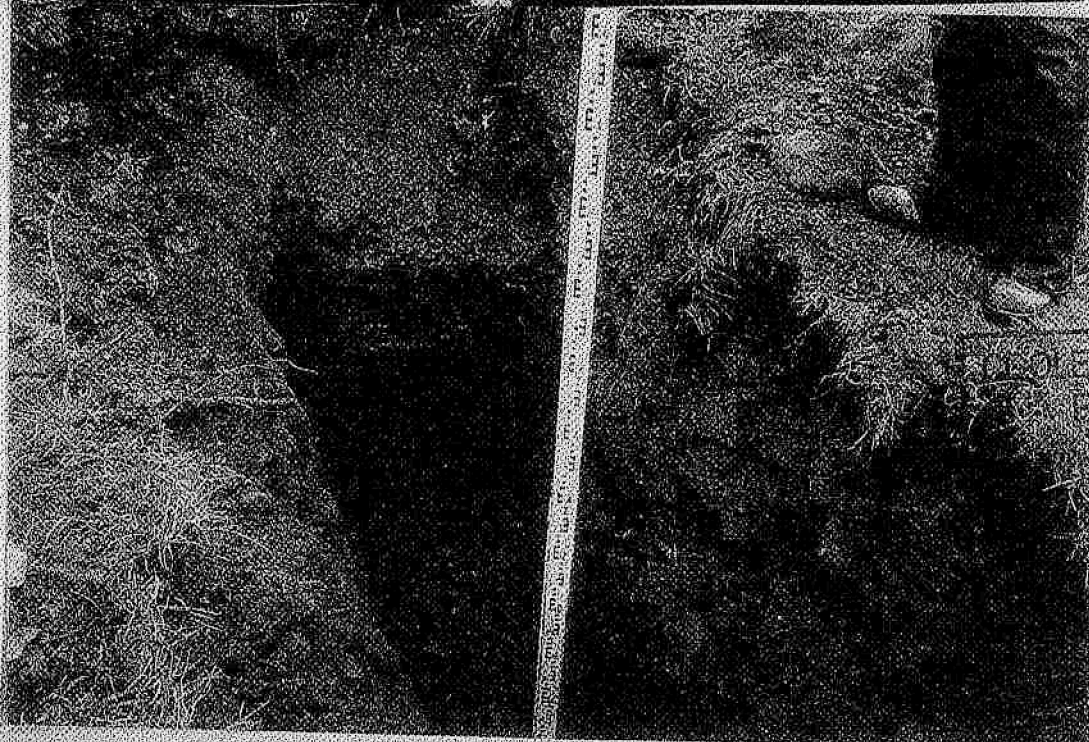


Detail
P-1



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Detail
P-1



Detail
P-1

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P. Test
Site

For inspection purposes only.
Consent of copyright owner required for any other use.

Council
Only



A. Test
Site

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6. Evidence of
 potential for soil

View of
 field &
 Location
 of
 Test
 Site



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 Commercial copyright cannot be used for any other use.

View from
 field towards
 pile houses



APR 2012
 Field Office
 Site

APR 2012
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Location
of
Test
Site



Location
of
Test
Site



Location
of
Test
Site
from
field

BER Assessor Certificate of Insurance

This form must be completed by a Registered Insurance Broker or Agent or an Insurance Company licensed to issue cover in the Republic of Ireland, as approved by the Financial Regulator.

Assessor / Insured Details:

Name of BER Assessor (s)/ Insured:	Noel Fay
SEAI BER Assessor Number(s):	102290
SEAI BER Employer Number:	
Business Name as per SEAI BER registration:	Noel Fay
Full Business description (as per policy):	Building Energy Rating Assessor and Consulting civil engineer

Public / Products Liability Insurance:

Policy provides an indemnity minimum limit of €6,500,000 any one event for Public Liability

Policy No. PI12B583575	Insurers: HCC International Insurance Company PLC
Cover Start date: 05/02/2012	Expiration date: 04/02/2013 both dates inclusive

Professional Indemnity Insurance:

Professional liability insurance with a minimum limit of €1,300,000 for any one claim

Policy No. PI12B583575	Insurers: HCC International Insurance Company PLC
Cover Start date: 05/02/2012	Expiration date: 04/02/2013 both dates inclusive

Employers Liability Insurance:

Number of employees directly employed by your company: None

Employers liability insurance is not mandatory if the number of employees is zero

Policy provides an indemnity limit of not less than €13,000,000 for any one event

Policy No. NOT COVERED	Insurers: NOT COVERED
Cover Start date: N/A	Expiration date: N/A both dates inclusive

We hereby certify that the above mentioned BER Assessor holds the indicated insurances including the minimum standards as indicated / required by the Sustainable Energy Authority of Ireland (SEAI) for participation as a Registered BER Assessor. Policy documents and current renewal receipts must be available for inspection by SEAI or their appointed agents.

Insurance is an ongoing requirement for registration with SEAI and details must be completed with each new policy.

- The policies are in the jurisdiction of the Republic of Ireland
- Indemnity includes accidents occurring anywhere in Ireland
- Policy is current and the premium has been paid

Insurance Company or Broker's or Agent's Details:

Name:	Campion Insurance
Signed:	
Position / Status:	Account Executive
Date:	07/02/2012

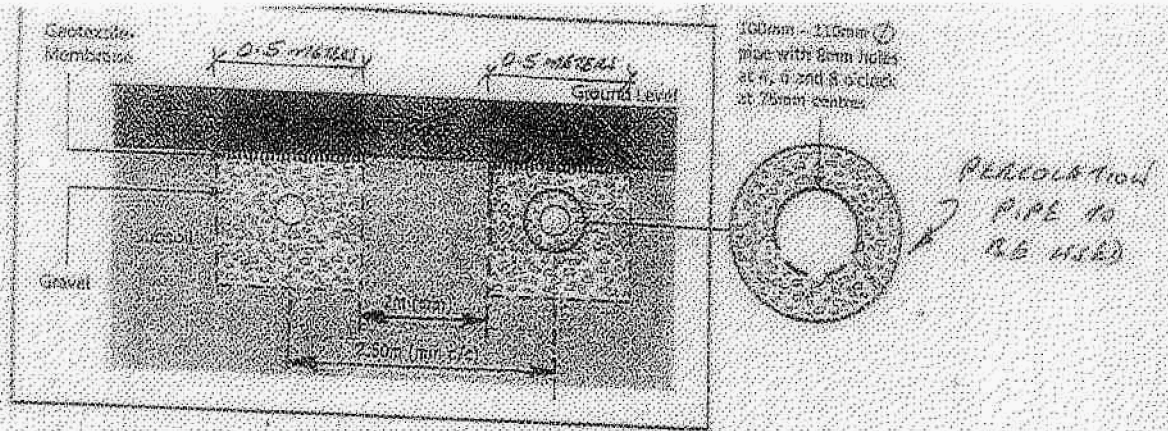


Broker ref: FAYND1

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TYPICAL LAY-OUT OF PERCOLATION PIPE SYSTEM

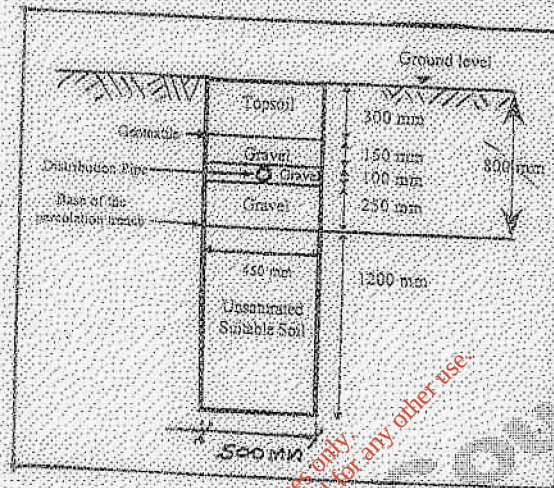


FIGURE 12 SECTION OF PERCOLATION TRENCH

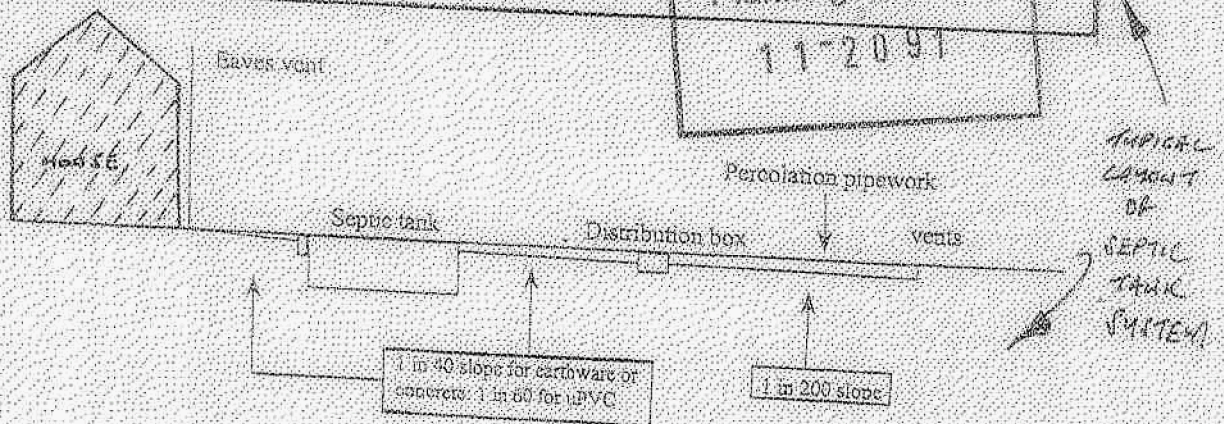
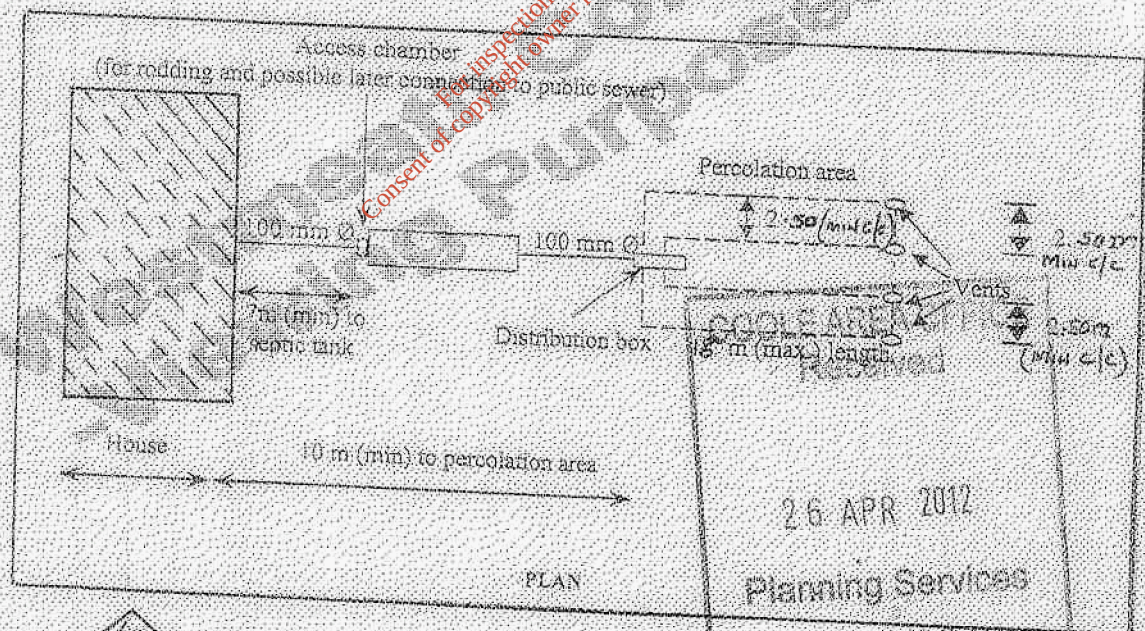
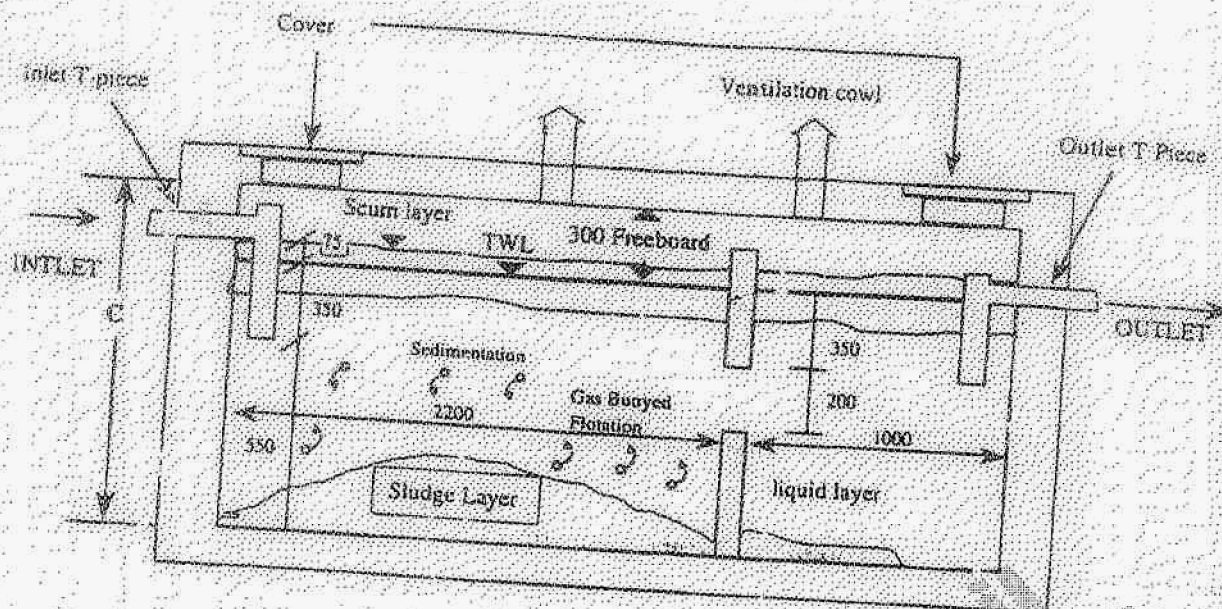
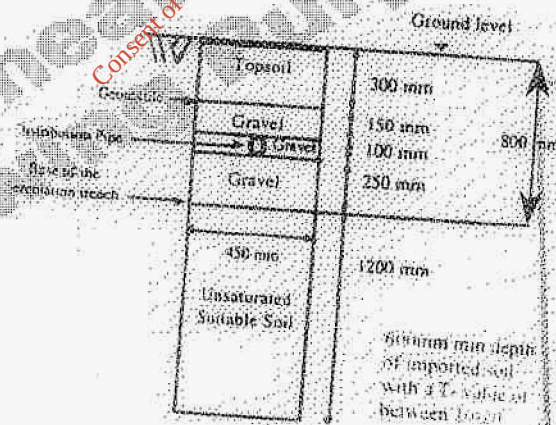


Diagram 1



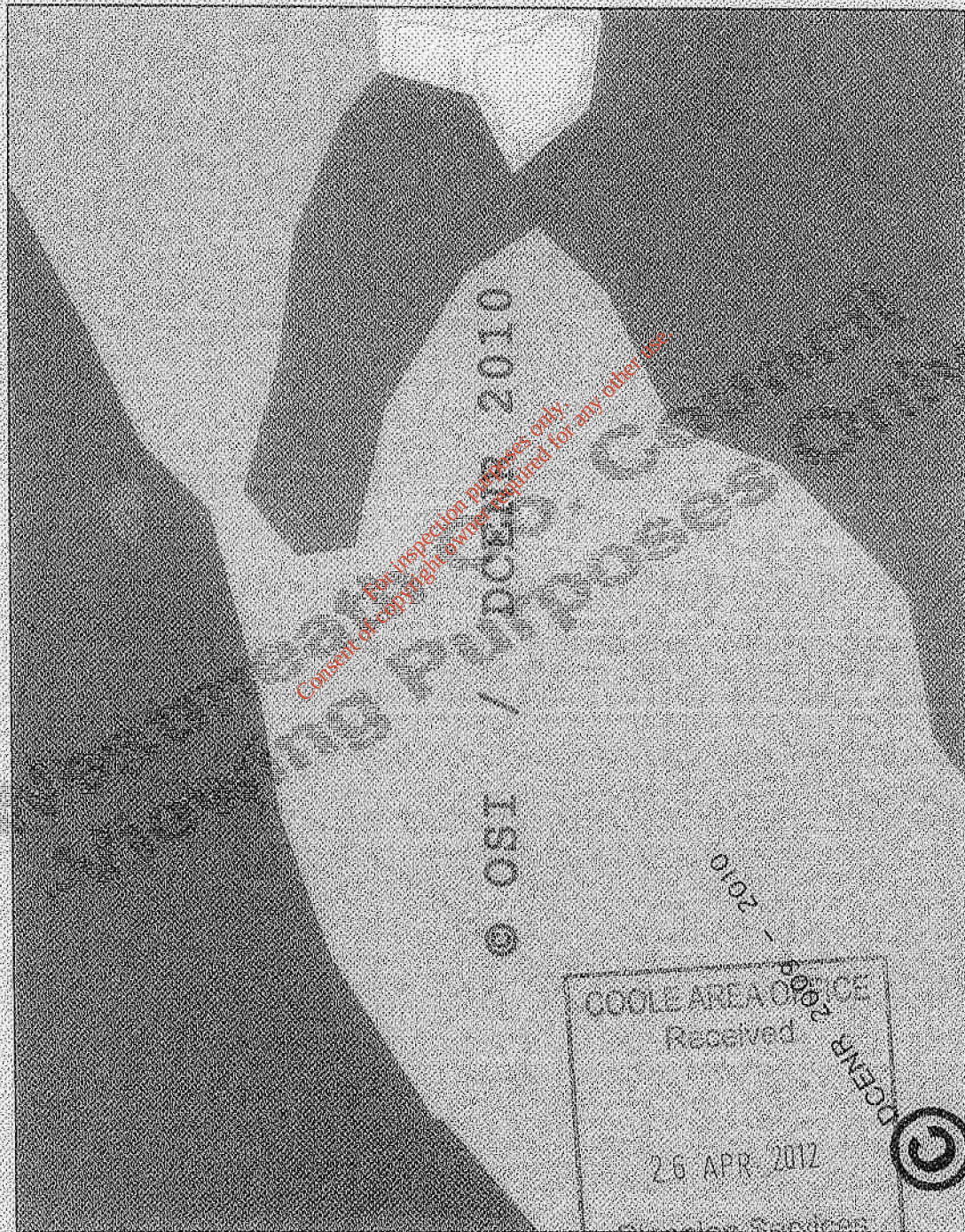
LONGITUDINAL SECTION OF A TYPICAL SEPTIC TANK (ALL DIMENSIONS IN MM.)

Diagram:



SECTION OF A PERCOLATION TRENCH

Geological Survey of Ireland - Groundwater



Legend

- Wells Accuracy within 10m to 500m
- Wells Accuracy within 1000m
- Wells Accuracy within 2000m
- Wells Accuracy within 5000m
- Wells Accuracy within 10m
- Karst Features
- Borehole
- Cave
- Dry Valley
- Exclosed Depression
- Clawwell
- Spring
- Superficial Solution Features
- Swellow Hole
- Turlough
- Tracer Lines
- Tracer Outcrop Site
- Vulnerability
- X (Root near Surface or Karst)
- E - Extreme
- H - High
- M - Moderate
- L - Low
- HL - High to Low. Only an interim study
- Rock plots
- Water
- No Data Available
- RBD Subsoils
- Alluvium
- Beach sands and gravels
- Beach outcrop and subcrop
- Estuarine sands and gravels
- Glaciofluvial sands and gravels
- Lake sediments
- Mud grana
- Marine/estuarine silts and clays
- Marsh
- Peat
- Scree
- Till derived chiefly from Devonian sandstones
- Till derived chiefly from Lower Palaeozoic rocks
- Till derived chiefly from Neoproterozoic rocks

Scale: 1:2,500

Map center: 258492, 253983

Snapshot Date: 15-Apr-2012

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Received

26 APR 2012

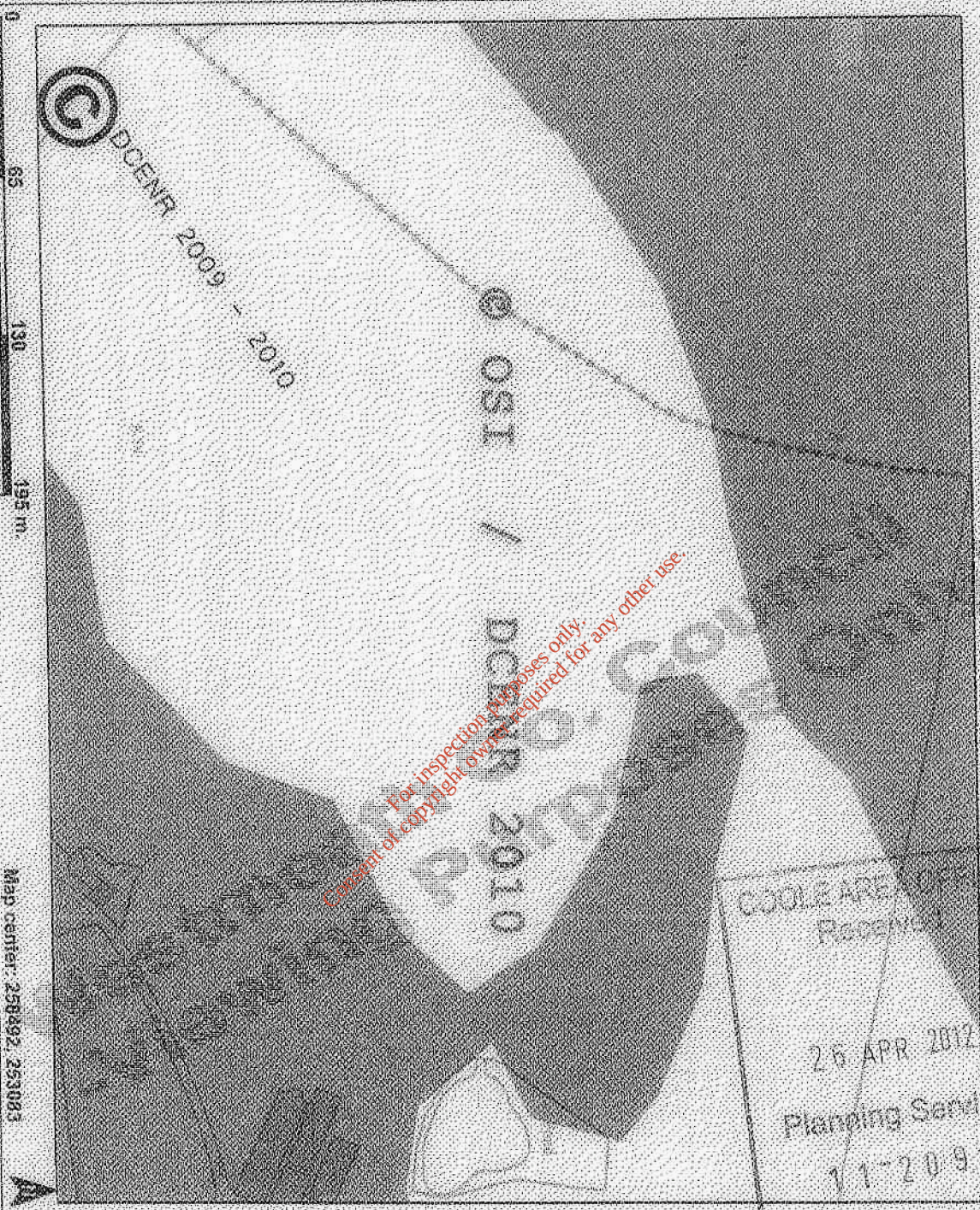
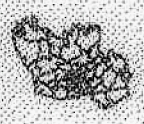
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Geological Survey of Ireland - Groundwater



- Legend**
- Wells Accuracy within 10m to 20m
 - Wells Accuracy within 100m
 - Wells Accuracy within 250m
 - Wells Accuracy within 500m
 - Wells Accuracy within 1km
 - Karst Features
 - Bornhole
 - Cave
 - Dry Valley
 - Enclaved Depression
 - Elevette
 - Spring
 - Superficial Solution Features
 - Swallow Hole
 - Trough
 - Tracer Lines
 - Tracer Outcrop Site
 - Vulnerability
 - X (Rock near Surface or Karst)
 - E - Extreme
 - H - High
 - M - Moderate
 - L - Low
 - HL - High to Low. Only an interim study look place
 - Water
 - No Data Available
 - Watermark

Snapshot Date: 15-Apr-2012

Map center: 258492, 263083

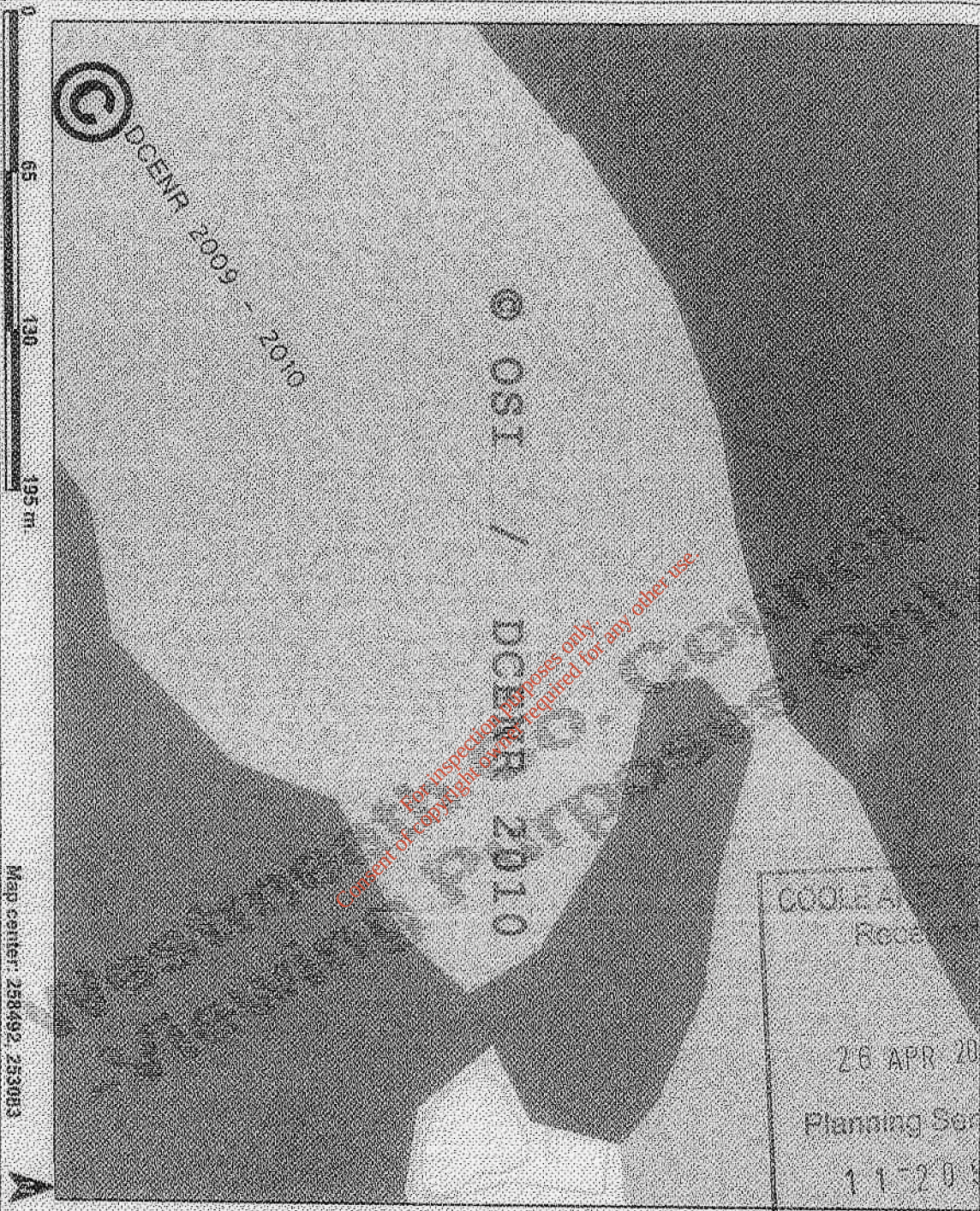
Scale: 1:2,500

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Geological Survey of Ireland - Groundwater



Map center: 258492, 253093

Snapshot Date: 15-Apr-2012

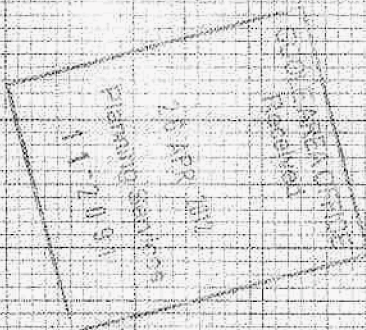
Scale: 1:2,500

Legend

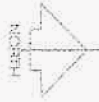
- Wells Accuracy within 15m to 50m
- Wells Accuracy within 100m
- Wells Accuracy within 200m
- Wells Accuracy within 500m
- Wells Accuracy within 1km
- Cave Features
 - Borehole
 - Cave
 - Bry Valley
 - Enclosed Depression
 - Escarpment
 - Spring
 - Superficial Solution Features
 - Swallow Hole
 - Tunnel
- Trace Lines
- Trace Output Site
- Vulnerability
 - X Flood near Surface or Karst
 - E- Extreme
 - H- High
 - M- Moderate
 - L- Low
 - HL- High to Low. Only an illustrative study
 - WATER
 - No Data Available
- RSD Substrate
 - Alluvium
 - Beach sands and gravels
 - Bedrock outcrop and outcrop
 - Estuarine sands and gravels
 - Glacial/fluviol sands and gravels
 - Lake sediments
 - Mud ground
 - Marine/estuarine silts and clays
 - Marl
 - Peat
 - Sand
 - Till derived chiefly from Devonian sandstones
 - Till derived chiefly from Lower Palaeozoic rocks
 - Till derived chiefly from Neoproterozoic rocks

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JORISTOWN UPPER TOWNLAND



Total Site Area = 2.2 hectares

Emergency assigned to Planning Application Ref:09/6032

- A Existing Dry Stone wall forming boundary
- B Existing House and Part of garden
- C Existing Dry Stone wall forming boundary
- D Existing House
- E Existing House
- F Existing House

PROPOSED SERVICE ROAD

PROPOSED ROADWAY
WIDE 18 METERS IN
LENGTH AT 25 METERS
WIDE

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Waterford City Council
Planning Department

70 sq m
1170 sq m
Planning Services

Existing Mature Trees

Existing Mature Trees

Property Boundary

Boundary assigned to Planning Application

Legend

- Existing Fagery Unit
- Proposed Fagery Extension Units
- Assigned Site E under
- Property Boundary



Location of Stone Wall
and Placement of
Proposed 137: Wood



Prüfinstitut für
Abwassertechnik
GmbH

PERFORMANCE RESULTS

Shay Murtagh Ltd.
Raharney, Mullingar, Co. Westmeath, Ireland

EN 12566-1

Part 1: Prefabricated septic tanks
Results corresponding to EN 12566-1 and S.R. 66

PIA2016-SR66-1602-1025

Septech 2000

Material	Concrete
Crushing resistance (vertical load test)	Pass (for wet ground conditions also)
Watertightness	Pass
Nominal capacity	3 m ³
Hydraulic efficiency	99.850 % (without filter)
Durability	Pass

Performance tested by:

PIA – Prüfinstitut für Abwassertechnik GmbH
(PIA GmbH)
Hergenrather Weg 30
52074 Aachen, Germany

This document replaces neither the declaration
of performance nor the CE marking.



Notified Body
No.: 1739



Certified according to
ISO 9001:2008



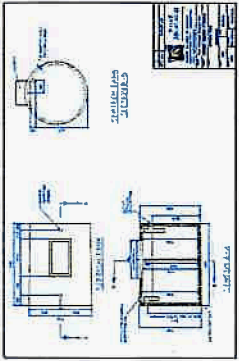
Deutsche
Akkreditierungsstelle
D-PL-17712-01-00

Prüfinstitut für Abwassertechnik GmbH
Geprüft - tested - testé

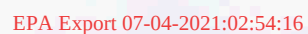
Elmar Lancé

July 2016

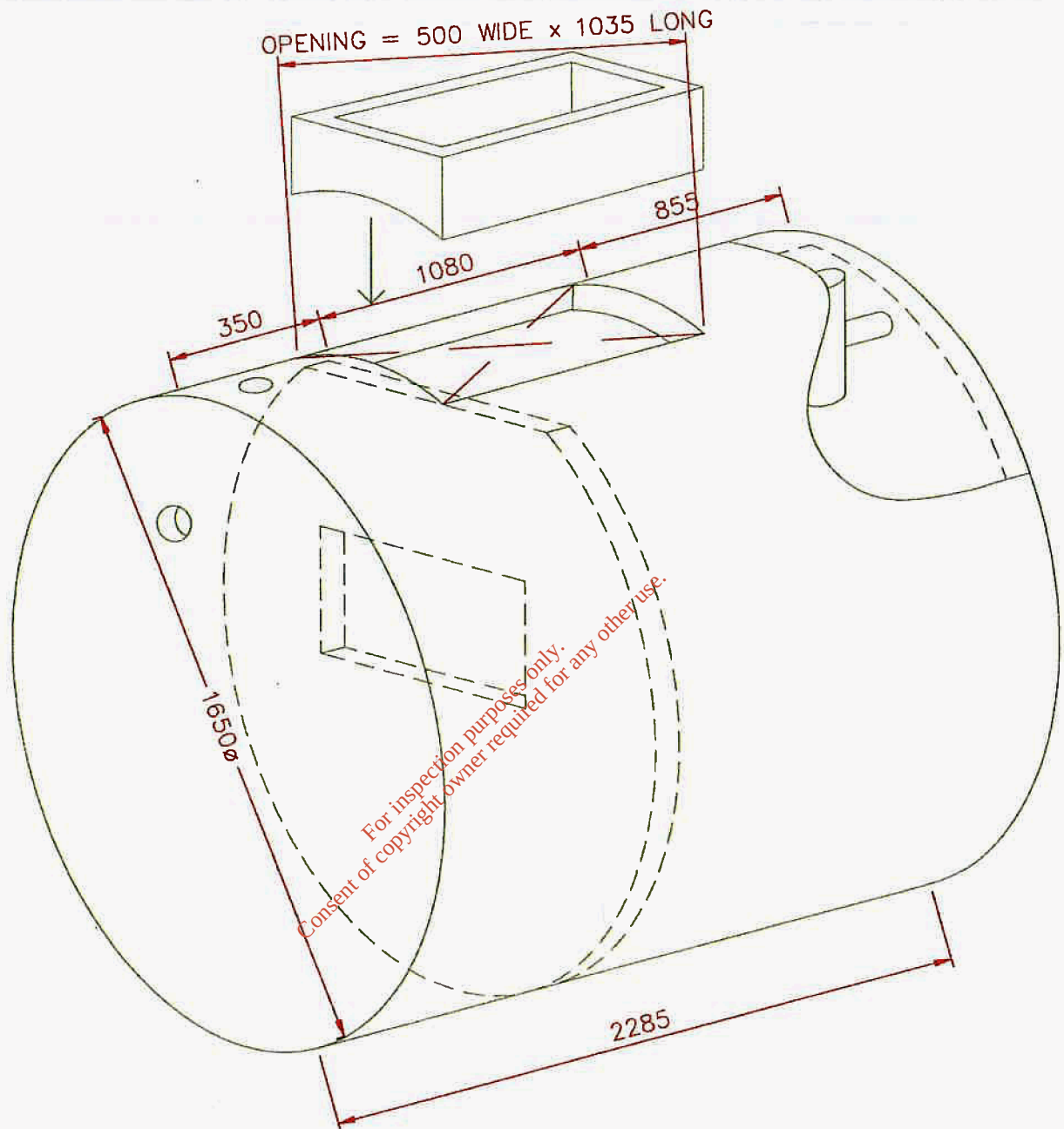
Septech Septic Tank range and its referring test reports:

Nominal capacity Usable capacity Population equivalent (PE)	Drawing of model of the range	Watertightness and Nominal Capacity (EN 12566-1 Annex A)	Hydraulic Efficiency (EN 12566-1 Annex B)	Structural Behaviour (EN 12566-1 Annex D)	Durability
3 3,658 l 11 PE		Pass PIA2011-WD/NC-1105-1031	Pass PIA2011-HWG-1105-1031	Pass PIA2013-ST-BT-1305-1030 Pass For wet ground conditions, Installations depth 0.75 m from inlet invert	PIA2013-ST-BT-1305-1030

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4000 LITRE PRECAST CONCRETE SEPTIC TANK



**SHAY
MURTAGH**

RAHARNEY, MULLINGAR, CO. WESTMEATH
Phone: (044) 74108/74149 Fax: (044) 74552
email: sales@shaymurt.com

Dimensions (in Millimeters)

Dia 1800 Bottom of tank to bottom
Length 2400 of inlet 1500mm

Hole Size

Width 2000
Depth 1900
Length 2600

Details

Inlet & Outlet UPVC
Fitting 100mm dia

Manhole Dimensions 1220 x 750 x 480mm