SITE CHARACTERISATION FORM COMPLETING THE FORM

Step 1:

	Goto Menu Item File, Save As and save the file under a reference relating to the
	client or the planning application reference if available.
Clear Form	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 other data fields are in text entry formaging any terrise 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

ofcop In this section use an uncerline _____ 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.

APPENDIX B: SITE CHARACTERISATION FORM

File Reference:	
1.0 GENERAL DETAILS (From planning app	lication)
Prefix: First Name:	Surname:
Address:	Site Location and Townland:
Telephone No: Fax No:	
E-Mail:	
Maximum no. of Residents: No. of Double Bo	edrooms: No. of Single Bedrooms:
Proposed Water Supply: Mains Private W	Vell/Borehole Group Well/Borehole
	² 6.
2.0 GENERAL DETAILS (From planning app	
Soil Type, (Specify Type):	20 ⁵⁰ ued
Aquifor Catagory: Dogionally Important	Poor Door
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 experience 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.

3.0 ON-SITE ASSESSMENT

3.1 Visual Assess	nent			
Landscape Position	:			
Slope:	Steep (>1:5)	Shallow	(1:5-1:20)	Relatively Flat (<1:20)
Surface Features w	ithin a minimum of 250n	n (Distance To Featu	ires Should Be Note	ed In Metres)
Houses:				
Existing Land Use:				
Vegetation Indicator	rs:			
Groundwater Flow I	Direction:			
Ground Condition:				
Site Boundaries:			at the .	
Roads:		Ó	hy. and ther tee.	
Outcrops (Bedrock	And/Or Subsoil):	n Phillosen	<u></u>	
Surface Water Ponc		ecitor Lake	łS:	
Beaches/Shellfish:		For hie Area	s/Wetlands:	
Karst Features:		ett		
Watercourse/Stream				
Drainage Ditches*:				
Springs / Wells*:				

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).

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):							
Depth from ground surfaceDepth from ground surfaceto bedrock (m) (if present):to water table (m) (if present):							
Depth of water ingress: Rock type (if present):							
Date and time of excavation:		Date a	nd time of examina	tion:			
Depth Soil/Subsoil of P/T Texture & Test* Classification**	Plasticity and dilatancy***	Soil Structure	Density/ Compactness	Colour****	Preferential flowpaths		
0.1 m	Consent of	Stinspection purpose	and for any other use.				

Likely T value:

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

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

Note: *Depth of percolation test holes should be indicated on log above. (Enter P or T at depts as appropriate). ** See Appendix E for BS 5930 classification.

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)			
Depth from ground surface to base of hole (mm) (B)		<i></i>	
Depth of hole (mm) [B - A]		W. Nohetes	
Dimensions of hole [length x breadth (mm)]	x	ses difference x	х
Step 2: Pre-Soaking Test Holes	Forinsection	e ter	
Date and Time pre-soaking started	For prive		

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

Step 3: Measuring T₁₀₀

Percolation Test Hole No.	1	2	3
Date of test			
Time filled to 400 mm			
Time water level at 300 mm			
Time to drop 100 mm (T ₁₀₀)			
Average T ₁₀₀			

If $\rm T_{_{100}} > 300$ 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}^{100} > 210 minutes then go to Step 5;

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

Percolation Test Hole		1				2				3			
Fill no.	Start Time (at 300 mm)	Finis Time (at 20 mm)	е	∆t (min)	Start Time (at 300 mm)	Fini Tim (at 2 mm)	e 00	∆t (min)	Start Time (at 300 mm)	Finis Tim (at 20 mm)	е	∆t (min)	
1													
2													
3 Average ∆t Value													
	Average [Hole No	p.1]		(t ₁)	Average [Hole No	o.2]		(t ₂)	Average [Hole No			(t ₃)	
Result of Tes	st: T =			(m	nin/25 mm	1)		et use.					
Comments:							114. 2114 of	,ft ^e					
						1 Purposes	1 ^{for}						
Step 5: Moc	lified Met	hod (wh	iere T ₁₀₀	> 210 mi	nutes per or	NIL							
Percolation Test Hole No.		1		consent	d co t	2				3	i		
Result of Tes Comments: Step 5: Moc Percolation Test Hole No. Fall of water in hole (mm)	Time Factor = T _f	Time of fall (mins) = T _m	$K_{fs} = T_f / T_m$	T – Value = 4.45 / K _{fs}	Time Factor = T _f	Time of fall (mins) = T _m	K _{fs} = T _f / T _m	T – Value = 4.45 / K _{fs}	Time Factor = T _f	Time of fall (mins) = T _m	K _{fs} = T _f / T _m	T – Value = 4.45 / K _{rs}	
300 - 250	8.1				8.1				8.1				
250 - 200	9.7				9.7		1		9.7]		
200 - 150 150 - 100	11.9 14.1]		11.9				11.9 14.1				
Average T- Value	T- Value	Hole 1=	= (t ₁)		T- Value	Hole 1=	= (t ₂)		T- Value	Hole 1=	= (t ₃)		
Result of Tes	st: T =				(min/25 n	nm)							
Comments:													

3.3(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)			
Depth from ground surface to base of hole (mm)			
Depth of hole (mm)			
Dimensions of hole [length x breadth (mm)]	x	X	X
Step 2: Pre-Soaking Test Holes	5		
Date and Time pre-soaking started			
Each hole should be pre-soake	d twice before the test is ca	rried out. Eachshole should	be empty before refilling.
		only any other	
Step 3: Measuring P ₁₀₀	Pur	rried out. Eaclashole should	
Percolation Test Hole No.	1 spection net	2	3
Date of test	l X		
Time filled to 400 mm	Consentin		
Time water level at 300 mm			
Time to drop 100 mm (P ₁₀₀)			
Average P ₁₀₀			

If $P_{_{100}} > 300$ minutes then P-value >90 – site unsuitable for discharge to ground If $P_{_{100}} \le 210$ minutes then go to Step 4; If $P_{_{100}} > 210$ minutes then go to Step 5;

Step 4: Standard Method (where $\mathsf{P}_{_{100}} \! \leq \! 210$ minutes)

Percolation Test Hole		1				2				3		
Fill no.	Start Time (at 300 mm)	Fini Tim (at 2 mm)	е	∆p (min)	Start Time (at 300 mm)	Fini Tim (at 2 mm)	e 00	∆p (min)	Start Time (at 300 mm)	Fini Tim (at 20 mm)	e 00	∆p (min)
1												
2												
3 Average ∆p Value												
	Average [Hole No	o.1]			Average [Hole No	o.2]			Average [Hole No			(p ₃)
Result of Te	st: P =			(mir	n/25 mm)			at USC.				
Comments:							HY any of	Je.				
Result of Test Comments: Step 5: Moc Percolation Test Hole No. Fall of water in hole (mm)					winspection	NINET FEQUITE	,to					
Step 5: Moc	lified Me [.]	thod (wł	nere P ₁₀₀	_o > 210 mi	putes)							
Percolation Test Hole No.		1		Conser		2				З	}	
Fall of water in hole (mm)	Time Factor = T _f	Time of fall (mins) = T _m	$K_{fs} = T_f / T_m$	P – Value = 4.45 / K _{fs}	Time Factor = T _f	Time of fall (mins) = T _m	$K_{fs} = T_f / T_m$	P – Value = 4.45 / K _{rs}	Time Factor = T _f	Time of fall (mins) = T _m	K _{fs} = T _f / T _m	P – Value = 4.45 / K _{fs}
300 - 250	8.1				8.1				8.1			
250 - 200	9.7				9.7		1		9.7			
200 - 150 150 - 100	11.9 14.1				11.9		1		11.9 14.1			
Average P- Value	P- Value	e Hole 1	= (p ₁)		P- Value	e Hole 1	= (p ₂)		P- Value	e Hole 1	= (p ₃)	
Result of Tes	st: P =				(min/25	mm)						
Comments:					,	,						
]

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
 - (f) adjacent houses,
 - (g) watercourses,
 - (h) significant sites
 - (i) and other relevant features.
- . sites and other relevant features. Cross sectional drawing of the site and the proposed layout¹ should be submitted. ¹hotographs of the tria¹ nd site (date and 5.
- 6.

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.

4.0 CONCLUSION of SITE CHARACTERISATION

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 for ¹	Discharge Route
1. Septic tank system (septic tank and percolation area)	
2. Secondary Treatment System	
a. septic tank and filter system constructed on-site and polishing filter; or	
b. packaged wastewater treatment system and polishing filter	

5.0 RECOMMENDATION

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olly an
and the second sec
Durchin
a tion net
Harden Ora

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

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 1977-90. Refer to Section 2.6.2.

6.0 TREATMENT SYSTEM DETAILS

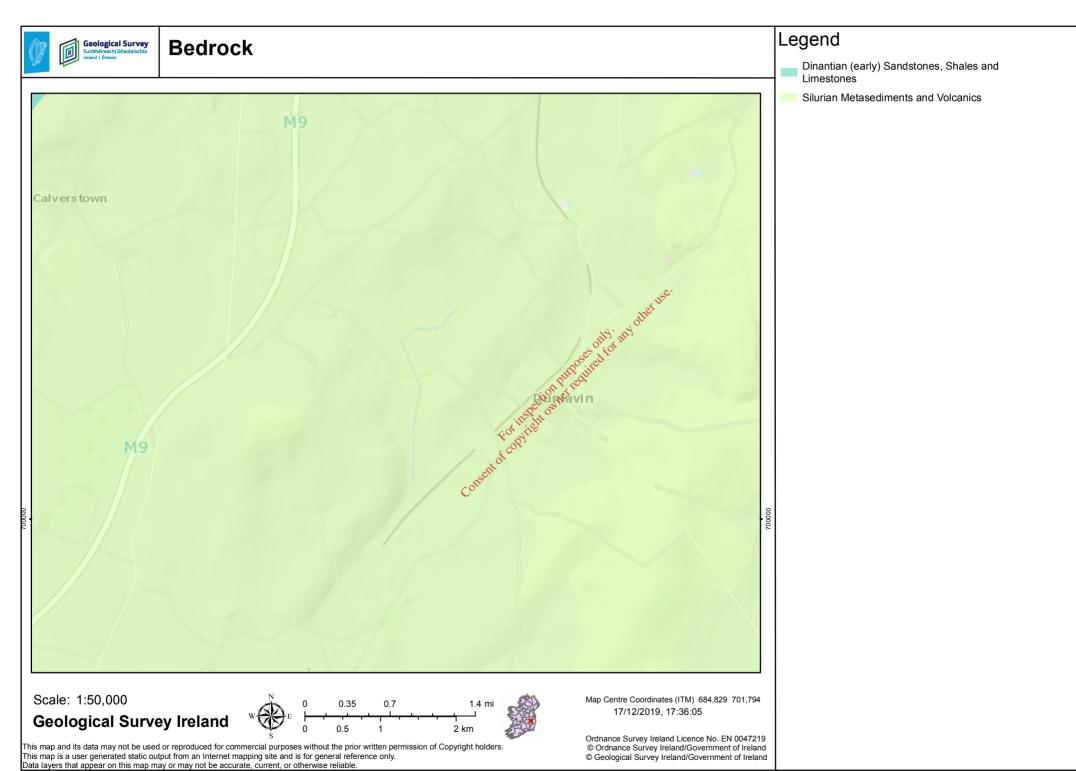
SYSTEM TYPE: Septio	rank System					
Tank Capacity (m ³)	Per	Percolation Area			Percolation Ar	rea
	No.	of Trenches		No. of Trer	iches	
	Len	gth of Trenches (m)		Length of ⁻	Trenches (m)	
	Inve	ert Level (m)		Invert Leve	el (m)	
SYSTEM TYPE: Secor	ndary Treatment S	System				
Filter Systems				Pac	kage Treatm	ent Systems
Media Type	Area (m²)*	Depth of Filter	Invert Level	Тур	e	
Sand/Soil						
Soil				Сар	acity PE	
Constructed Wetland		tem put For page of the put of the compact for post of the compact of the compa	other He	Sizir	ng of Primary	Compartment
Other			25 offer any			m ³
SYSTEM TYPE: Tertial	ry Treatment Sys	tem	stined			
Polishing Filter: Surfa	ce Area (m²)*	oPac	kage Treatme	nt System:	Capacity (pe)	
or Gravity Fed:		FOR VIE Con	structed Wetl	and: Surface	e Area (m²)*	
No. of Trenches		ant of				
Length of Trenches (m)		Const				
Invert Level (m)						
DISCHARGE ROUTE:						
Groundwater	Hydraulic I	_oading Rate * (I/m ²	.d)			
Surface Water **	Discharge	Rate (m³/hr)				
TREATMENT STANDA	RDS:					
Treatment System Perf	ormance Standa	rd (mg/l) BOD	SS	NH ₄ - N	Total N	Total P
QUALITY ASSURANC	E:					
Installation & Commiss	ioning	0	n-going Mainte	enance		

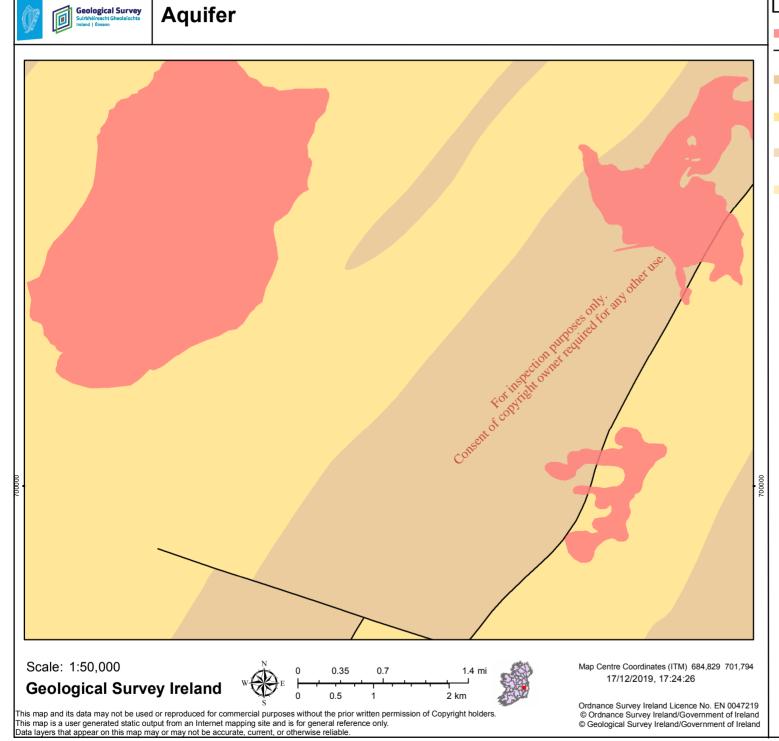
 * Hydraulic loading rate is determined by the percolation rate of subsoil

** Water Pollution Act discharge licence required

7.0 SITE ASSESSOR DETAILS

Company:
Prefix: First Name: Surname:
Address:
Qualifications/Experience:
Date of Report:
Phone: Fax: e-mail
Indemnity Insurance Number:
Signature: AGAAA





Legend

Locally important gravel aquifer

- Bedrock Aquifer Faults
 - PI Poor Aquifer Bedrock which is
- Generally Unproductive except for Local Zones
- Pu Poor Aquifer Bedrock which is Generally Unproductive
- PI Poor Aquifer Bedrock which is Generally Unproductive except for Local Zones
- Pu Poor Aquifer Bedrock which is Generally Unproductive

USK Co. Kildare – Application Site / Former Pit

Site Views



EPA Export 16-01-2021:06:51:16

USK Co. Kildare – Application Site / Former Pit

T1 & 2 – Tests



T3 & Trial Hole



