

The Water Environment (Controlled Activities)(Scotland) Regulations 2011

LICENCE APPLICATION FORM D

ABSTRACTIONS AND IMPOUNDMENTS

SECTION 1: ACTIVITIES APPLIED FOR					
ACTIVITIES AP	PLIED FOR (please use CAR-LA-F	ORM-K for the co	onstruction of deep boreh	oles >200m)	
Please indicate how many activities you are applying for under each category.			National Grid Reference (10 character) of abstraction or impoundment	Name of source waterbody or impounded waters	Source type • Watercourse • Reservoir • Loch • Groundwater • Spring • Wetlands
1.1 Abstraction	is:				
Registration	An abstraction of more than 10m³/day and less than or equal to 50m³/day		Attach separate application	n forms for regist	ration to this application
Simple Licence	An abstraction of more than 50m³/day and less than or equal to 2000m³/day	1 (one licence covering 2 abstractions)	BH5: NR 38202 45942 BH7: NR 38233 45900		Groundwater
Complex Licence	An abstraction of more than 2000m³/day				
	onstruction and operation d operate a borehole you need to obt	ain a CAR registra	tion or licence		
Enter regist	tration or licence number if you ha	ve already obtain	ned a permit:	CAR/R/50	04458
1.3 Mobile abst	traction units used to abstract water	er under this appl	lication		
Mobile Plant	Additional mobile unit abstraction location(s)				
WODIIE FIAIIL	Mobile Plant If applicable please state how many mobile abstraction units are to be used to abstract water applied for under this licence				
1.4 Impoundme	ents:				
	Existing passive weir				
	Existing managed weir less than or equal to 1 metre high				
	Existing raised loch less than or equal to 1 metre high				
Simple Licence	Construction of all new impoundments less than or equal to 1m high that do not affect the passage of salmon or sea trout.				
	Removal or modification of an impoundment authorised under GBR1				
	Removal or modification of a simple licence level impoundment				
Complex	Construction and operation of all other impoundments				
Licence	Removal or modification of a complex licence level impoundment				

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SECTION 2: REASONABLE	NEED			
2.1 PLEASE INDICATE YOUR MAIN	CATEGORY OR CATEG	ORIES OF USE (if a	appropriate)	
Agricultural irrigation		Please complete	Q2 and Table A	
Agricultural water supply		Please complete	Q2 and Table B	
Golf Course irrigation		Please complete	Q2 and Table C	
Industry (other than hydropower)	x Please complete Q2 and Table D			
Private Water Supply		Please complete	Q2 and Table E	
Public Water Supply		Please complete	Q2 and Table F	
Hydropower		Please complete	Q2 and Table G	
Other(please specify)		Please complete	Q2 and Table H	
2.2 ALL USERS				
2.2.1 Total Quantities to be authorised Please give the total volume of usage in cubic metres to be authorised from all sources in the periods indicated Hour (m³) 8.33 Day (m³) 73,000				
2.2.2 Please set out here any other information, e.g. supporting calculations, operational practices or other reasons, in addition to that which you include in the following tables, to show how you have arrived at the quantities set out above that you are seeking to have authorised. (Please continue on a separate sheet were necessary)	Volume of 200m3/d was established based on existing knowledge of process water requirements for Malting and Distillery Pumping tests on the 2 x separate boreholes indicate that pumping at 200m³/day could be achieved by pumping these boreholes together, as discussed in attached report (Ref: HW004 Portintruan BH5 & 7 Pumping Test Report).			
2.2.3 Please set out here what steps you have taken or intend to introduce to ensure efficient use of water (Please continue on a separate sheet if necessary)	Cooling water will be sea water to ensure requirement on Borehole water is reduced. Abstraction boreholes will be fitted with flow meters to keep record volume of water abstracted. These flowmeters will be calibrated and serviced according to manufacturers instruction. Flowmeter readings will be accurately recorded for CAR abstraction licence requirements, as well as being closely monitored by site personel to detect potential leaks or inneficient water use. Water will be pumped to storage tanks with stopper switches installed to stop the water from pumping when these tanks are filled. The pumping and water supply system will be maintained and serviced to ensure all is operating correctly. The system will be regularly checked for leaks, which will be addressed as soon as possible.			

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TABLE A Agricultural irrigation (If you a Table A for each farm unit applied for under	are applying for one licence covering a nurthis licence application.)	umber of farming units please	e complete one copy of
A.1 Please provide the following details of irrigated crops using the guidance on crop type in section 2.	Сгор Туре	Maximum area of crop typically irrigated in any year in hectares	Maximum annual depth of irrigation applied in mm
NB: You should provide information for the likely combination of crop	Maincrop potatoes		
areas reflecting the maximum demand in any one year.	Early potatoes		
. ,	Broccoli		
	Brussels Sprouts		
	Cabbage		
	Carrots		
	Cauliflower		
	Onions		
	Parsnips		
	Peas		
	Runner beans		
	Lettuce		
	Salad onions		
	Apples		
	Strawberries		
	Raspberries		
	Blackcurrants		
	Grazed grass		
	Spring Cereals		
	Other (please specify)		
	Cure (prease speerly)		
A.2 Provide the soil type for the farm unit. If more than one please provide the approximate areas for each main	Soil type	Area (hectares)	
type.	Coarse sand		
	Loamy coarse sand		
	Coarse sandy loam		
	Sand		
	Loamy sand		
	Fine sand Loamy fine sand		
	Clay		
	Dandy clay		
	Silty clay		
	Clay loam		
	Sandy loam		
	Sandy clay loam		
	Silty clay loam		

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Fine sandy loam	
Loam	
Very fine sand	
Loamy very fine sand	
Very fine sandy loam	
Silty loam	
Silty loam	
Peaty soils	
Other (please specify)	

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TABLE B Agricultural water supply				
B.1 Please state the type of livestock reared, the maximum number of animals and maximum kept and the total water requirement per day	Livestock type	No. of animals	Maximum daily rate of water used (m³/day)	Comments e.g. if special diet provision, housing requirements etc.
You should provide information for the likely typical	Dairy cows			
mix of livestock types reflecting the maximum	Beef cattle			
demand.	Pigs			
	Poultry			
	Sheep			
	Other (please			
	specify)			
B.2 Please give the maximum volume of water used for washing and cleaning per day.	Equipment	Maximum volu day (m³)	ime of water per	Comments
	Power hose			
	Non-power hose			

Table C - Golf Course Irrigation			
C.1 Please give the areas of tees greens fairways and any other	Feature	Total area to be irrigated (ha)	Maximum depth of water to be applied per annum (mm)
feature you intend to irrigate and the maximum depth of water to be applied to each per	Tees		
annum	Greens		
	Fairways		
	Other (please specify)		
C.2 Please give details of daily watering requirements	Feature	Maximum area irrigated per day (ha)	Maximum depth of water applied per day (mm)
	Tees		
	Greens		
	Fairways		
	Other(please specify)		

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Table D Industrial Use

D.1 Please provide a brief outline of the processes and water usage involved (Please continue on a separate sheet where necessary)

2x groundwater supply boreholes (50m apart) to provide process water to a new whisky distillery operation that is currently under development

D.2 For the appropriate industry			
sector, please state water use			
per unit of output. Also please			
provide the anticipated			
maximum annual production.			

Industry Sector and Process Type	Water use per unit production or output (please give units used)	Max Units produced per year
Beverages		
Brewing		
Brick production		
Cement and concrete products		
Ceramics and pottery manufacture		
Chemicals – speciality sector		
Chipboard and MDF manufacture		
Coal Mining (excluding dewatering)		
Cosmetics toiletries & cleaning agent manufacture		
Distilleries	ТВС	1.25 MLA
Electronic assemblies		
Glass and fibreglass production		
Fish Farming		
Fish processing		
Food processing – dairy produce		
Food processing – flour and corn products		
Food processing – fruit and vegetables		
Food processing – sugar refining		
Food product – confectionery		
Industry Sector and Process Type	Water use per unit production or output	Max Units produced per year

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		(please give units used)	
	Food processing – miscellaneous		
	Fresh red meat production		
	Laundry		
Ì	Lead acid battery production		
	Leather tanning		
	Leisure parks		
	Light industrial estate		
	Metal finishing		
	Metal processing		
	Plastics manufacture		
	Poultry processing		
	Power generation		
	Public Services		
	Pulp and papermaking		
	Quarries/mines (excluding dewatering)		
	Semiconductor wafer fabrication		
	Steel manufacture		
	Textile manufacture		
	Vehicle manufacture		
	Wallcoverings		
	Waste incineration		
	Other (please specify)		

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Table E – Private Water Supplies – including hospitals, schools, prisons, hotels, industrial premises etc.			
E.1 Please indicate nature of supply (i.e. domestic, agriculture, hospital etc.). Include all components.			
E.2 Please give details of the numbers of people being supplied and details of any residential capacity etc.	No of domestic properties served		
	Total population supplied		
	For hospitals, schools, prisons, hotels etc. please provide the maximum number of person-days occupancy provided for in one year.		
	Other (please specify)		
Table F – Public Water Supplies			
F.1 Please indicate the nature of the abstraction (direct into treatment and supply, raw water storage, river basin transfer etc.)			
F.2 Please give details of the supply.	F.2.1 Water resource zone to be supplied		
	F.2.2 Total population supplied		
	F.2.3 Components of supply (percentage domestic, industrial, agricultural etc.)		
F.3 Please give details of relevant water resources planning and any other documents relating to this scheme. If the scheme departs from these plans, please give the reasons for this.			
Please include details of any other current proposals which could have a bearing on the outcome of this application.			

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Table G – Hydropower		
G.1 Please give the head of water (H) and the design flow (Q)	H: in metres	
	Q: in m³/sec	
G.2 Provide the estimated installed efficiency of the turbine	%	
G.3 Please give the installed capacity of the turbine in Mega Watts	MW	

Table H - Other	
H.1 Please give details of the water use, purpose of abstraction etc.	
H.1 Please give as much detail as possible of the operational regime intended, water storage and conservation provision etc.	

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SECTION 3 APPLICATIONS INCLUDING ABSTRACTION ACTIVITIES								
Complete this table for all activities you are applying for. If you are applying for a licence which includes more than one abstraction activity please copy, complete and reference a separate table for each licensable activity.								
No. of Section 3 tables completed:	1		Table ref: (e.g.1 of 2, 2	of 2)	1 of 1		
ABSTRACTION DETAILS:								
3.1 Abstraction Point No/Ref/Name (This should correspond to a reference on the si map in 2.4 of Form A):		BH5 & BH7 (two boreholes, 50m apart acting as one abstraction for the purposes of this application)						
3.2 Source type (tick one):	_	□ Watercourse □ Reservoir □ Loch ☑ Groundwater □ Spring □ Wetlands						
3.3 Name of watercourse or loch (if applicable):								
3.4 National Grid Reference of abstraction Specify a single point or for mobile abstraction units specify the upstream (u/s) and downstream (d/s) limits.	BH5 - N	SINGLE POINT: BH5 - NR 38202 45942 BH7 - NR 38233 45900						
	MOBILE UN	NIT: (u/s) (d/s)		(format XY 1	,			
3.5 Please provide a full description of you proposals to construct or alter any surface water intake structure, including plans and cross sections.	r Documen	t name / ref	ference:	N/A	1			
3.6 Please provide method statements describing the method and controls of construction contraction for any surface water intake structure		Document name / reference: N/A			1			
3.7 Using the look up table in Section 3 of the guidance specify the Purpos Category/Categories for the use of the abstracte water.	distillery	Primary purpose: Industrial or commercial: process water for whisky distillery Secondary purpose:				r whisky		
3.8 Do you consider this abstraction would quali as an environmental service?	NO ☐ YES, provide details on separate sheet							
	Documen	t name/ ref	erence:					
3.9 Do you consider this abstraction would qualifor abated charges?	y NO	☐ YES,	provide detai	ils on separa	ate sheet			
ioi abateu ciiaiges:	Documen	t name/ ref	erence:					
3.10 What is the maximum proposed rate of volume of abstraction for this abstraction		litres/ second: cubic metres/ day:		cub	cubic metres/ year:			
activity? Conversion: 1m³ = 1000 litres 1m³ = 220 gallons 1m³/hour = 0.2778 litres/sec	2.31	2.31 200 (Combined total)			(Co	73,000 (Combined total)		
3.11 Describe how you propose to monitor the volume of water abstracted?	Documen	Document name/ reference: HW004 Questions 0						
3.12 Do you intend to abstract every year or on intermittently?	ermittently? further details on separate sheet							
(Intermittent means that it is predictable which years you will abstract. If you a applying to have the capability to abstract any year, select annual)								
3.13 Please tick during which months the abstra	ction takes pla	ce and, if a	vailable, ind	icate abstra	action volu	ımes (m³/m	onth).	
Jan Feb March April May	June	July	Aug	Sept	Oct	Nov	Dec	
x x x x x	x	x	x	x	x	x	x	

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3.14 Is any abstracted water to be discharged back into the water environment? If yes, enter the National Grid Reference (NGR) of the discharge point(s). Please note this discharge may require authorisation as a point source discharge See the CAR Practical Guide for further details.	NO ☐ YES NGR: 1) (format XY 1111 2222) NGR: 2) (format XY 1111 2222)				
3.15 Where you have selected 'yes' above specify the water returned as a percentage of take at the above grid reference(s)	NGR: 1) % of abstracted water returned NGR: 2) % of abstracted water returned				
3.16 If appropriate, provide information on the proposed operating regime (e.g. abstraction limits, hands off flow etc)	Document name/ reference:	HW004 Form D Questions Continuation			
3.17 Where a management agreement is in place which influences the abstraction, please provide details.	Document name/ reference:	N/A			
3.18 If appropriate, provide information on any inter- relationships between abstraction points applied for as part of this application (see section 3 of the guidance)	Document name/ reference:	(Ref: HW004 Portintruan BH5 & 7 Pumping Test Report).			
3.19 Please describe any legal rights to the water you intend to abstract or any agreements with parties that hold the water rights or rights of access.	Document name/ reference:	HW004 Form D Questions Continuation			
3.20 Please provide for mobile spray irrigation abstractions and water transfers a method statement detailing how each activity is to be carried out to prevent the spread of invasive non-native species ¹ .	Document name/ reference:	N/A			
3.21 On what date do you intend to commence the abstraction activity applied for?	3 rd Quarter 2024				
3.22 If applicable what date do you intend to start construction works?	N/A				
Additional information for groundwater abstract	ions only:				
3.23 If known, provide dimensions of the proposed borehole (or well) in metres:	Depth:	Diameter:			
Conversion: 1inch = 0.0254m; 1foot = 0.3048m	BH5 - 45 metres	BH5 - 140mm diameter			
	BH7 – 63 metres	BH7 – 190mm diameter			
3.24 Where the abstraction is greater than 50m³/day provide a water features survey (see section 3 in the guidance)	Document name/ reference:	Water Features Survey : (HW WFS – Portintruan)			
3.25 If known, what is the rock type from which the abstraction is being made?	☐ Unconsolidated ☐ Solid r	☐ Unconsolidated ☒ Solid rock			

¹ For information see the check, clean, dry procedure as outlined in the GB non-native species secretariat website (http://www.nonnativespecies.org/checkcleandry/biosecurity-for-everyone.cfm) and guidance set out in GPP5 (http://www.normativespecies.org/checkclearidy/biosecurity-ror-everyone.cim) and guidance (http://www.netregs.org.uk/media/1418/gpp-5-works-and-maintenance-in-or-near-water.pdf?utm_source=website&utm_medium=social&utm_campaign=GPP5%2027112017) v7.3 Sept 2022

SECTION 4: APPLICATIONS INCLUDING IMPOUNDMENT ACTIVITIES					
Complete this table for all impoundments that you are one impoundment structure please copy, complete and	applying for. If you are applying for a licence which includes more than d reference a separate table for each activity				
No. of Section 4 tables completed:	Table ref : (e.g.1 of 2, 2 of 2)				
IMPOUNDMENT DETAILS:					
4.1 Impoundment No/Ref/Name: (This should correspond to the reference on the site map)					
4.2 Type of original waterbody impounded:	□ WATERCOURSE □ LOCH □ NONE				
4.3 Name of watercourse or loch impounded:					
4.4 National Grid Reference of impoundment (from mid point of impounding structure):	(format XY 1111 2222)				
4.5 Using the look up table in Section 4 of the guidance specify the Purpose Category/Categories for the use of the impounded water. Continue on separate sheet if necessary.	Primary purpose: Secondary purpose:				
4.6 Do you consider this impoundment would qualify as an environmental service?	□ NO □ YES, provide details on separate sheet				
	Document name/ reference:				
4.7 Do you consider this impoundment would qualify	□ NO □ YES, provide details on separate sheet				
for abated charges?	Document name/ reference:				
4.8 Where a management agreement is in place which influences the operation of the impoundment, please provide details.	Document name / reference:				
4.9 Please provide a full description of your proposals to construct, alter or remove the impoundment, including plans and cross sections.	Document name / reference:				
4.10 Please provide method statements describing the method and controls of construction/alteration/removal works	Document name / reference:				
4.11 If applicable, what date do you intend to start construction, alteration or removal works for the impoundment?	Document name / reference:				
4.12 Height of impoundment structure:					
4.13 Please give the level of the overflow or crest of the dam (metres AOD) if this is different to the height of the impoundment structure					
4.14 National Grid Reference of outflow point from impounded waterbody	(format XY 1111 2222)				
4.15 Where there is a means of drawing the impounded water down, what is the minimum draw-off level (metres AOD)?					
4.16 Provide details of ongoing maintenance of this impoundment structure e.g. debris clearance, scour valve operation, fish pass maintenance etc.	Document name / reference:				
4.17 Please provide details of any sediment management plan associated with this impoundment (see guidance in section 4.17)	Document name / reference:				
4.18 Is there to be provision for fish passage?	NO, please provide a justification for this on a separate sheetYES, if so, please design details on separate sheet				
	Document name / reference:				
4.19 Are there to be fish screens or other fish protection measures?	NO, please provide a justification for this on a separate sheetYES, if so, please design details on separate sheet				

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	Document	name / reference:		
4.20 Provide information of the proposed operating regime (e.g. compensation release, freshets, drawdown)	Document	name / reference:		
4.21 For reservoirs, the total volume of water to be impounded and, if different total volume of waterbody (where known) (litres or cubic metres): (N.B. this information is not mandatory for schemes less than 25000m³)	Volume of impounded water: Total volume of waterbody:			
4.22 Provide details on any interconnections with other impoundments, abstractions or catchments.	Document name / reference:			
4.23 Is registration required under the Reservoirs (Scotland) Act 2011? (i.e. can the reservoir hold 25,000m³ or more above the surrounding land?) If yes, answer the following question:	□ NO □ YES			
4.23.1Have you already registered your reservoir with SEPA under the 2011 Act?	☐ YES	Confirm reference number? RES/R/		RES/R/
	□ NO	Contact SEPA's Reservoir Regulatory Unit at Reservoirs@sepa.org.uk to register		

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SECTION 5: ADDITIONAL INFORMATION

5.1 CUMULATIVE CHARGABLE ABSTRACTION VALUE

Please specify the combined maximum volume of abstraction from all abstraction points subject to a subsistence charge? (Please see guidance for more details)

Conversion: 1m³ = 1000 litres

 $1m^3 = 220$ gallons

A maximum combined total of 200 $\rm m^3/day$ between the two boreholes, to be taken from either borehole or a combination of both boreholes.

5.2ADDITIONAL INFORMATION SUBMITTED				
Please reference additional supporting documents submitted as part of this application	Document name: Document reference:	Pumping Test Report - (Ref: HW004 Portintruan BH5 & 7 Pumping Test Report).		
	Document name: Document reference:	Water Features Survey : (HW WFS – Portintruan)		
	Document name: Document reference:	Further information for questions in Form D: (Ref: HW004 Form D Questions Continuation)		
	Document name: Document reference:	Payment Remittance Advice: (SEPA Payment Receipt - Portintruan)		

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