TCP/11/16(562) – 18/00726/FLL – Change of use and alterations to agricultural steading to form 2 dwellinghouses, alterations to existing vehicular access and associated works (in part retrospect) vehicular access and associated works (in part retrospect) at Hosh Farm Steading, The Hosh, Crieff, PH7 4HA

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TCP/11/16(562) – 18/00726/FLL – Change of use and alterations to agricultural steading to form 2 dwellinghouses, alterations to existing vehicular access and associated works (in part retrospect) vehicular access and associated works (in part retrospect) at Hosh Farm Steading, The Hosh, Crieff, PH7 4HA

# PAPERS SUBMITTED BY THE APPLICANT

# **NOTICE OF REVIEW**

UNDER SECTION 43A(8) OF THE TOWN AND COUNTRY PLANNING (SCOTLAND) ACT 1997 (AS AMENDED)IN RESPECT OF DECISIONS ON LOCAL DEVELOPMENTS

THE TOWN AND COUNTRY PLANNING (SCHEMES OF DELEGATION AND LOCAL REVIEW PROCEDURE)
(SCOTLAND) REGULATIONS 2013

THE TOWN AND COUNTRY PLANNING (APPEALS) (SCOTLAND) REGULATIONS 2008

IMPORTANT: Please read and follow the guidance notes provided when completing this form. Failure to supply all the relevant information could invalidate your notice of review.

Use BLOCK CAPITALS if completing in manuscript

Applicant(s)	Agent (if any)						
Name MR ROD FINDLAY,	Name ARUM RESOURCES LTD						
Address	Address UNIT G GLENRUTHEN MILL BUSINESS CENTRE, ABBEY ROAD, AUCHTERARDER						
Postcode	Postcode PH3 IDP						
Contact Telephone 1 Contact Telephone 2 Fax No	Contact Telephone 1 Contact Telephone 2 Fax No						
E-mail*	E-mail* admin@arumresources.co.ok						
* Do you agree to correspondence regarding you	Mark this box to confirm all contact should be through this representative:  Yes No r review being sent by e-mail?						
Planning authority	PERTH AND KINROSS						
Planning authority's application reference number 18 /00726 / FLL							
Site address HOSH FARH ST	TEADING, THE HOSH, CRIEFT						
Description of proposed development  CHANGE OF USE AND ALTERATIONS TO AGRICULTURAL STEADING TO FORM 2 NO. DWELLING HOUSES, ALTERATIONS TO EXISTING VEHICULAR ACCESS AND ASSOCIATED WORKS (IN PART RETROSPECT)							
Date of application 03/05/2018	Date of decision (if any) 24/08/2018						
Note. This notice must be served on the planning authority within three months of the date of the decision							

notice or from the date of expiry of the period allowed for determining the application.

Nature of a	Noti application	ice of Review
<ol> <li>Applic</li> <li>Applic</li> <li>Further has been a planed</li> <li>Applic</li> </ol>	cation for planning permission (including householder application) cation for planning permission in principle er application (including development that has not yet commenced and where a time een imposed; renewal of planning permission; and/or modification, variation or remo aning condition) cation for approval of matters specified in conditions  for seeking review	limit oval of
<ol><li>Failure determ</li></ol>	al of application by appointed officer e by appointed officer to determine the application within the period allowed for nination of the application tions imposed on consent by appointed officer	
The Local F time during to determin such as: w	Review Body will decide on the procedure to be used to determine your review and the review process require that further information or representations be made to enter the review. Further information may be required by one or a combination of pritten submissions; the holding of one or more hearing sessions and/or inspective subject of the review case.	enable them procedures,
handling of	icate what procedure (or combination of procedures) you think is most appropr f your review. You may tick more than one box if you wish the review to be cond n of procedures.	iate for the ducted by a
<ol> <li>One or</li> <li>Site ins</li> <li>Assess</li> <li>If you have below) you</li> </ol>	er written submissions r more hearing sessions spection sment of review documents only, with no further procedure e marked box 1 or 2, please explain here which of the matters (as set out in you believe ought to be subject of that procedure, and why you consider further subm	
WE BELIN	NEVE THAT THE SUMMARY TO PERTH + KINROSS' REPORTS  NO HIGHUCHTS THAT THE AUTHORITY EXCEEDED ITS  INC. TO LEGISLATION + QUIDANCE) IN LEGUSING APPLICATION	POWERS N DUE
Site inspec	TO FLOODING RI	sK
<ol> <li>Can th</li> <li>Is it po</li> </ol>	t that the Local Review Body decides to inspect the review site, in your opinion: ne site be viewed entirely from public land? possible for the site to be accessed safely, and without barriers to entry? The reasons why you think the Local Review Body would be unable to unable site inspection, please explain here:	Yes No

### Statement

You must state, in full, why you are seeking a review on your application. Your statement must set out all matters you consider require to be taken into account in determining your review. Note: you may not have a further opportunity to add to your statement of review at a later date. It is therefore essential that you submit with your notice of review, all necessary information and evidence that you rely on and wish the Local Review Body to consider as part of your review.

If the Local Review Body issues a notice requesting further information from any other person or body, you will have a period of 14 days in which to comment on any additional matter which has been raised by that person or body.

State here the reasons for your notice of review and all matters you wish to raise. If necessary, this can be continued or provided in full in a separate document. You may also submit additional documentation with this form.

PLEASE REFER TO ATTACHED MOCAL REVIEW BODY STATEMENT
430/LRB/001
AND
STATEMENTS BY NEIGHBOURS,
THE REASON FOR REVIEW IS THAT THE PLANNING
AUTHORITY ACTED OUTWITH PLANNING CHARLES
NTHONAL AND LOCAL POLICY AND LEGISLATION
REGARD TO CONSULTATION WITH SEPA. THIS RESULTED
IN A DEMAND FOR AN INAPPROPRIATE ENHANCED
FLOOD RISK ASSESSMENT, LIKEY TO COST IN THE
REGION OF £5000. THIS IS NOT TUSTIFIED THROUGH
LOCAL PLANNING POTICY OR LAW,
Have you raised any matters which were not before the appointed officer at the time the determination on your application was made?
If yes, you should explain in the box below, why you are raising new material, why it was not raised with the appointed officer before your application was determined and why you consider it should now be considered in your review.

### List of documents and evidence

Please provide a list of all supporting documents, materials and evidence which you wish to submit with your notice of review and intend to rely on in support of your review.

430/LRB/001 - LOCAL REVIEW BODY STATEMENT

BAXTER STATEMENT

LOUGHUN STATEMENT

MEIGHROUR SUPPORTING

NEILSON STATEMENT

STATEMENTS

FINDLAY STATEMENT — APPLICANT STATEMENT.

Note. The planning authority will make a copy of the notice of review, the review documents and any notice of the procedure of the review available for inspection at an office of the planning authority until such time as the review is determined. It may also be available on the planning authority website.

### Checklist

Please mark the appropriate boxes to confirm you have provided all supporting documents and evidence relevant to your review:

Full completion of all parts of this form

Statement of your reasons for requiring a review

All documents, materials and evidence which you intend to rely on (e.g. plans and drawings or other documents) which are now the subject of this review.

<u>Note.</u> Where the review relates to a further application e.g. renewal of planning permission or modification, variation or removal of a planning condition or where it relates to an application for approval of matters specified in conditions, it is advisable to provide the application reference number, approved plans and decision notice from that earlier consent.

### **Declaration**

I the applicant/agent [delete as appropriate] hereby serve notice on the planning authority to review the application as set out on this form and in the supporting documents.

Signed		Date	16 110 1 2018.



Arum Resources Limited
Unit G
Glenruthven Business Centre
Abbey Road
Auchterarder
PH3 1DP

Contact: Grant Simpson Tel: 01764 664632

Email:

admin@arumresources.co.uk

Ref: 430/LRB/001 Date: 30.09.2018

**Dear Sirs** 

#### LOCAL REVIEW BODY STATEMENT

RE: CHANGE OF USE AND ALTERATIONS TO AGRICULTURAL STEADING TO FORM 2 NO. DWELL-ING-HOUSES, ALTERATIONS TO EXISTING VEHICULAR ACCESS AND ASSOCIATED WORKS (IN PART RETROSPECT) VEHICULAR ACCESS AND ASSOCIATED WORKS (IN PART RETROSPECT)

### PLANNING REF 18/00726/FLL

We are moved to appeal to the local review body regarding the decision given by Perth and Kinross Planning Department on the above application. We will not bring any new information to the board's attention, however we do feel there is a need to clarify a number of points which have been noted in the delegated report which are misleading and inaccurate. It is unfortunate that this appeal is required, as had the planning authority not acted outwith their guidelines then the sole issue of refusal – namely the demand for a full flood risk assessment by SEPA., would have been resolved to the satisfaction of all parties.

We also wish to highlight the onerous cost attributed to Developer Contributions for this site.



River Turret at 8th April 2018 after period of snow and rain



### **SUMMARY**

The summary states that the "This report recommends **refusal** of the application as the development is considered to be contrary to the relevant provisions of the Development Plan and there are no material considerations apparent which justify setting aside the Development Plan.

The sole reason for the refusal of this application is that SEPA requires a higher level of flood analysis (policy EP2, development and flooding) than that previously demanded on existing applications for that site, or elsewhere in the Hosh settlement area.

To summarise for the Local Review Body, the Flood Risk Assessment should not have been required as.

- 1. This is not **new development** but refurbishment of existing farm steadings.
- 2. The policy EP2 relates to buildings **no new buildings** are proposed on site.
- 3. The policy EP2 relates to a functional flood plain Scottish Planning Policy SPP 7 defines a functional flood plain as –
  16. Functional flood plains are the unobstructed areas of land adjacent to watercourses or on the coast where water regularly flows in times of flood and which therefore store flood water which would otherwise flow elsewhere. No record of the River Turret flooding in this area is known. There is a record of the old bridge over the River Turret being damaged but this is not evidence of a flood that would cause risk to the inhabitants of the building. It may be evidence of a bridge in poor state of repair in the first place. Therefore, this is not a functional flood plain.
- 4. Policy EP2 requires an incorporation of a 600mm freeboard this is provided under the previous approved application.
- 5. The 5 criteria that Policy EP2 requires should not occur will not be affected by this proposal. Namely, surface water increase, reduction of river naturalness, require mitigation works elsewhere, affect existing flood attenuation and compromise future mitigation works. **Because it is not new development.**
- 6. Scottish Planning Policy SPP 7 15. states that this policy **should not be used for small scale alterations and extensions** obviously this is the case here.
- 7. **If risk exists it is already in place**. Nothing that is proposed will increase the risk of flooding the site.
- 8. Planning authorities are required to consult the SEPA before granting planning permission "where it appears to the planning authority that the development is **likely to result in a material increase in the number of buildings at risk of being damaged by flooding".** (The Town and Country Planning (General Development Procedure) (Scotland) Order 1992 Article 15 (SI 1992/224 as amended by SI 1996 No. 467 (S.36)) (The GDPO). Again there is no **material increase** in the number of buildings. There is not even an increase in building footprint.
- 9. It is outwith SEPA's remit to object based on a **perceived increase in population** rather than building footprint. Any increase will be negligible. As noted above, risk is already there. This is a misinterpretation of their responsibility.



- 10. Any flooding is shown to overspill at a level 600mm below the proposed floor level of the proposal. **As already agreed on the previous application.**
- 11. Flooding can only occur if a blockage, highly unlikely, to the bridge takes place. The bridge is an adopted structure of Perth and Kinross Council. Perth and Kinross Council and SEPA are required to have a plan in place if they feel there is a risk of flooding in this area, under the Civil Contingencies Act 2004. Should flooding to such an extent occur at this location, the Council are responsible for alleviating the issue. This is required whether the proposal is approved or not. The approval of the proposal will not make any difference to the statutory responsibilities of the Council or other agencies. This is because there is no increase to the approval already enacted.

### **BACKGROUND AND DESCRIPTION OF PROPOSAL**

This proposal seeks planning consent for alterations to the steading to form 2no. dwelling-houses, alterations to existing vehicular access and associated works as well as the formation of vehicular access (in part retrospect) as advised by the planning authority.

Unit 2 has been effectively occupied since 2017 and this application had been submitted to rectify the initial approvals which related to the same building footprint. It is also submitted to gain permission for changes related to Unit 1

As noted in the planning officers report, there is some planning history related to this application.

05/02058/FUL - Planning was granted for the steading conversion and erection of three holiday cottages. This was approved 23<sup>rd</sup> March 2006. Please note that no requirement for a flood risk assessment was requested by SEPA, for what would have been a larger development than that proposed in the current application.

10/00583/FFL – Planning was granted for a single unit within the steading conversion. This was a modification of 05/02058/FUL. This involved a reduction in total floor area from the previous application. This application was approved in 9<sup>th</sup> August 2010.

While objections were received from Perth and Kinross Council Flood Authority on the basis of the development being within the 1:200 functional flood plain, and a flood risk assessment was requested. SEPA offered no objection and only noted that the finished floor level of the steading should be set at 73.8m (600mm freeboard from the surrounding ground level). A decision was made by the Development Quality Manager that, "in this instance, it would be unreasonable to insist on the increased floor levels at this stage, due to the previous planning permission having been granted without any such restriction."

As a result the floor levels of the steading conversion would be maintained at 73.6m (200mm lower than that requested by SEPA) and the application approved.

The steading was split into two units with a subsequent reduction of floor area. An application 17/01121/FLL was submitted to cover this but withdrawn in favour of the current application 18/00726/FLL

SITE HISTORY - ACCEPTED.



#### PRE-APPLICATION CONSULTATION

Conversations by phone and email were had on numerous occasions regarding the exact wording of that the application should take as part of the works were in retrospect. The planning authority are well aware of the site and of the keenness of the applicant to resolve the application. The titling of the application was confirmed by Christine Brien within an email 15<sup>th</sup> May 2018

### NATIONAL POLICY AND GUIDANCE

We believe that national policy and guidance permits approval of the application without the need of a full flood risk assessment.

### **DEVELOPMENT PLAN - ACCEPTED**

TAY plan STRATEGIC DEVELOPMENT PLAN 2012-2032-APPROVED JUNE 2012 - ACCEPTED.

# PERTH AND KINROSS LOCAL DEVELOPMENT PLAN 2014- ADOPTED FEBRUARY 2014. (ACCEPTED IN PART)

EP2 (abridged from SPP 7 – planning and flooding) states

"There will be a general presumption against proposals for built development or land raising on a functional flood plain and in areas where there is a significant probability of flooding from any source, or where the proposal would increase the probability of flooding elsewhere.

In addition, built development should avoid areas at significant risk from landslip, coastal erosion and storm surges.

Where a risk of flooding is known or suspected the Council will use the flood risk framework shown in the diagram overleaf and considers that areas of:

- (i) medium to high flood risk are not suitable for essential civil infrastructure;
- (ii) low to medium flood risk are suitable for most forms of development; and
- (iii) little or no flood risk shown present no flood related constraints on development.

All development within areas of medium to high flood risk must incorporate a 'freeboard' allowance and the use of water resistant materials and forms of construction appropriate to its function, location, and planned lifetime relative to the anticipated changes in flood risk arising from climate change.

To allow for adaption to increased flood risk associated with climate change, development should not:

- (a) Increase the rate of surface water run-off from any site;
- (b) Reduce the naturalness of the river;
- (c) Add to the area of land requiring flood protection measures;
- (d) Affect the flood attenuation capability of the functional flood plain; nor
- (e) Compromise major options for future shoreline or river management."

NOTE – The general principles of SPP7 (15.) state

"Alterations and small scale extensions to buildings are generally outwith the scope of this SPP provided they would not have a significant effect on the storage capacity of the



### functional flood plain or affect local flooding problems."

The proposal obviously has no effect on storage capacity or affect local flooding problems

The policy EP2 identifies the site as being within functional flood plain by use of the mapping tool provided by SEPA.

However its appropriate use in this application is disputed. For the following reasons.

- SEPA themselves accept that the maps are indicative in nature, within the Technical Flood Risk Guidance For Stakeholders. SEPA state in 2.0 – It is inappropriate for these flood maps to be used to assess flood risk to an individual property.
- 2. A simple Flood Risk Assessment (in line with SEPAs Technical Flood Risk Guidance For Stakeholders) was submitted in support of the application.

This report (in line with 4.3.3 of the Technical Flood Risk Guidance For Stakeholders 2015 available at time of application) is based on basic topographical information gained from the site.

This shows that the proposed level of the existing steading (set at 73.6m by approval 10/00583/FFL.) would not flood as the Turret Burn would surcharge on the south side of the Turret Bridge. From a site survey of the site, it is self evident that flooding on the site would not affect the proposed steading conversions.

No reasons have been given for SEPAs request for a detailed flood risk assessment.

3. Flooding can only occur on the site if the bridge is blocked by storm debris, and it has been shown to surcharge to the south side of the Turret bridge in any case. This bridge is a single span of 13.8m width x 2.79m to top of existing watercourse. This results in a cross sectional area of 38.5m2. It is extremely unlikely that any flood event in this area would block this opening.

Should such an unlikely event occur as the Turret Bridge is a highway structure adopted by Perth and Kinross Council, it is their responsibility to maintain the structure and ensure that it is kept clear. In this case it would be a simple operation to undertake, particularly as the bridge is overlooked by the proposed properties.



Turret Bridge as viewed from the west.



- 4. It is unreasonable of SEPA to request a detailed Flood Risk Assessment of a likely cost in the region of £5000 as against the actual cost of providing a dividing wall within the building which was in the region of £300.
- 5. A freeboard has already been agreed under approval 10/00583/FFL
- 6. No records of historic flooding have been known to affect the existing steading complex. What is known was the previous bridge was badly damaged in a flood and replaced by the present structure. This does not mean that there was a flood to the extent envisaged by SEPAs mapping tool.
- 7. Given that the site is developed from a redundant steading the site meets the 5 criteria outlined above that will meet the requirements of policy EP2, namely

It will not increase the rate of surface water run-off from any site;

It will not reduce the naturalness of the river;

It will not add to the area of land requiring flood protection measures;

It will not affect the flood attenuation capability of the functional flood plain;

It will not compromise major options for future shoreline or river management.

### **OTHER POLICIES**

**DEVELOPMENT CONTRIBUTIONS - SEE BELOW** 

HOUSING IN THE COUNTRYSIDE GUIDE - AGREED

FLOOD RISK AND FLOOD RISK ASSESSMENTS – ADDRESSED ABOVE UNDER POLICY EP2

### **CONSULTATION RESPONSES**

SEPA – Object. In the first response they advised the submitted information was inadequate to demonstrate that the proposed development is outwith the 0.5% AP (1:200) floodplain. SEPA strongly recommend that a satisfactory FRA be undertaken that includes both a hydrological assessment and hydraulic modelling to establish design flood levels at the site.

### However

The Town and Country Planning (Development Management Procedure) (Scotland) Regulations 2013 require that planning authorities must, before determining an application for planning permission for development, consult with SEPA where the development is likely to result in a material increase in the number of buildings at risk of being damaged by flooding (Schedule 5.1(1). Planning authorities must take SEPA's advice into account alongside the development plan and other material considerations in the determination of planning applications involving flood risk.

The proposals do not show an increase in buildings, indeed the proposed footprint is reduced from the approved 10/00583/FFL.

Further the Local Plan of 2001 specifically identifies the site (H53) as having the potential of 6 dwellings. 3 dwellings are built / proposed in the field north of the steading. A further 1 has been built from part of the steading. And the steading itself under the application



submitted is proposed to split the single dwelling in to 2. Thus the development proposes outlined in 2001 has been met and the site has not been overdeveloped.

There is no extra development to justify an enhanced flood risk assessment.



Extract from 2001 Strathearn Local Plan



### Precedent

As highlighted to the planning officer, at no point, until this application, has SEPA requested an enhanced Flood Risk Assessment, for this application site or others within the Hosh Settlement Boundary.

The most recent case of a nearby application was for

16/00352/FLL Erection of a dwellinghouse and detached garage (revised layout) Plot 2A The Hosh Crieff

For example – please refer to this email below from planning officer David Niven to James Denholm Partnership regarding finished floor levels for the above application.

### **David Niven**

From: David Niven

 Sent:
 03 November 2016 15:26

 To:
 'bob@james-denholm.co.uk'

Subject: RE: Proposed New House at Crieff for Ian & Helen Wilson.

#### Dear Bob

I can confirm that the plans are acceptable and the file has been updated to incorporate the updated plans. Your client is therefore free to develop the proposed house provided the FFL is set at 73.80 as per the submitted plans.

#### Regards

David Niven
Planning Officer
Development Management
Planning & Development
Perth & Kinross Council
Pullar House
35 Kinnoull Street
Perth
PH1 5GD

T: 01738 475345 F: 01738 475310 E: dniven@pkc.gov.uk

If this level was acceptable, which we believe is simply based on having a 600mm freeboard, rather than any formal flood risk assessment or any consultation with SEPA. Why is a higher proof required for our clients application. It should be noted that this site is within the 1:200 year flood event area.

This is simply the latest example identified of this approach within the Hosh Settlement Area. We believe that this is actually an appropriate method of dealing with the site. The applicant went through the same process in application 10/00583/FFL. Where that floor level of 73.8m was reduced to an agreed 73.6m – while maintaining a freeboard of 600mm as above.



Therefore there no reason why the objection from SEPA on the lack of an enhanced Flood Risk Assessment is valid, and can be used to refuse this application. Indeed, as noted above, they should not even have been approached as a consultee on this matter.

### **DEVELOPER CONTRIBUTIONS -**

Rod and Karen Findlay, the owners of the Hosh Steading as was, are not typical developers looking to profit from the splitting of the steading into two units. They are self builders, forced by financial constraints to sub divide the property.

In doing this care was taken to develop a dwelling that appealed to an older generation of buyer, buyers that would not have children of a school age. At present within the Hosh there is no children of Primary School age, and to the best of our knowledge has not been for many years. The Hosh settlement simply is not one that attracts the young family demographic, being remote from services such as doctors, schools and shops.

The demand of a contribution of £6460 to maintain Crieff Primary School is unreasonable given that the facility was erected only a couple of years ago and capacity should have been allowed for at that stage.

We would ask that this contribution request is withdrawn by the Council.

### **ECONOMIC IMPACT - AGREED**

### **CONCLUSION**

As indicated above we believe:

- a) It is in line with the aims of the relevant policies and plans.
- b) Is a continuation of an existing approval that has been enacted.
- c) Is not of a scale that requires consultation with SEPA
- d) The works are of a scale that do not merit the expense that an enhanced flood risk assessment would entail.
- e) A flood risk assessment was undertaken showing, at a fundamental level, that the river, if ever in flood, would overtop on the southern end of the bridge at 73.00m
- f) Therefore the proposed finished floor level of 73.60m would provide a freeboard of 600mm. This is as recommended within CIRIA Guidance (CIRIA C624 Development and Flood Risk Guidance for the Construction Industry 2004
- g) The application is being assessed to a different standard to other applications within the immediate vicinity.

Letters of support from neighbours are attached within Appendix A

**APPLICATION PROCESSING TIME - AGREED** 

**LEGAL AGREEMENTS - AGREED** 

**DIRECTION BY SCOTTISH MINISTERS - AGREED** 

**RECOMMENDATION - AS DISPUTED ABOVE** 

JUSTIFICATION - AS DISPUTED ABOVE

**INFORMATIVES - AGREED** 



# PROCEDURAL NOTES PLANS AND DOCUMENTATIONS RELATING TO THIS DECISION - AGREED

### **CONCLUDING NOTES - AGREED**

Statements in support of the application.

Although representations of support were not sought at the time of application, there is support for the applicants from within the local area. We attach the following.

Letter from applicant Rod and Karen Findlay
Letter of support from Robert Southern and Lisa Eglin – North Barn, The Hosh, Crieff
Letter of support from Michael MacKintosh - Torran House, The Hosh, Crieff.
Letter of support from Robin Baxter – Aberturret House, The Hosh, Crieff.
Letter of support from Paul and Johanna Loughlin – Nether Turret, The Hosh, Crieff.
Letter of support from Iain Neilson – Hosh Farmhouse, The Hosh, Crieff.

Yours faithfully

Grant Simpson Director Arum Resources Ltd.



# ABERTURRET HOUSE THE HOSH CRIEFF PERTHSHIRE PH7 4HA

Tel: 01764 656590

Perth & Kinross Council Planning Department Pullar House 35 Kinnoull Street Perth PH1 5GD

October 6<sup>th</sup> 2018

Ref: 18/00726/FLL. Hosh Farm Steadings

Dear Sir/Madam

I would like to submit comment regarding the Hosh Farm Steadings development. This site is immediately opposite my home.

I am hugely concerned to see that a recent planning application has been refused. I note a previous one [10/02058/FLL] was approved.

I note the refusal was on the grounds that a satisfactory flood risk assessment has not been provided to confirm the increase in residential dwelling units on the site can be accommodated.

As far as I understand the footprint of the development has not changed so it seems extraordinary, given a previous flood risk assessment was done and approved, that the planning authorities have effectively reversed their previous position.

From a neighbours perspective, we have lived with this ongoing development since we moved here five years ago. Most of our neighbours have lived with it far longer. The Findlays are as keen to see the development completed as we are as neighbours who every day look out on a building site!

As owners of a holiday cottage within our grounds we are attuned to comments from our visitors from both the UK and overseas and I have run out of fingers and toes to count the number of times our visitors have commented on the building site. As with any

building project there are ongoing issues with noise and disruption. These impact on our holiday cottage rentals where our guest come for peace and tranquillity. As you will be aware the Glenturret Distillery attracts over 100,000 visitors a year. Many choose to walk locally and thus have to pass the Hosh Farm Steading development. Completion of this development can only be of benefit to the local community, visitors as well as the Findlay family.

Reading the associated paperwork, this latest refusal appears to be on no more than a technicality and I would thus plead with the Planning Department to reverse its refusal, allow the development to be completed and for the residents of The Hosh to return to peace and tranquillity.

Yours sincerely,

Robin E E Baxter

Hosh Farm Steadings
The Hosh
Crieff
Perthshire, PH7 4HA

Local Review Body Perth & Kinross Council Perth

12 October 2018

Dear sirs

Ref 18/00726/FLL Hosh Farm Steadings

We purchased the steadings in 2002 as a range of stone-built farm buildings with a bothy and some 'loose' additional structure constructed in a variety of materials and varying condition. The property had been on the market for a significant length of time without any purchasers prepared to tackle what was clearly going to be a massive undertaking. For this project to be viable we have recycled as much building material as is humanly possible with an eye to costs and quality.

Whilst it can be said that we have 'developed' this site, it would be misleading to describe us as 'Developers'. Our aim has been to create a family home from the dereliction we purchased. Over the intervening years, we have applied for differing planning consents as our own ideas were refined and as economic circumstances shifted. This latest application was to subdivide the west wing from the remainder of the main building. The application was in retrospect as we had been professionally advised incorrectly that planning approval was not required.

The works involved with the subdivision were minimal and involved the reinstatement of an earlier wall at ground floor level where a doorway linking two rooms had been formed under earlier approvals. Similar attention was required at first floor and roof space. No new bedrooms or bed spaces were added in the proposal and the original footprint of the building was not increased. An earlier approved plan for an extension housing a swimming pool was shelved with this application.

Earlier approvals had set the floor levels following flood risk assessments and topographical studies which showed that flood risk attached to this site is not a significant factor.

We were then more than slightly surprised when PKC Planning referred the application to SEPA for consultation as this appears to fly in the face of Scottish Government Guidance and enactments<sup>1</sup>. We were even more surprised when SEPA responded not by the expected 'no comment' but demanded an enhanced flood risk assessment. Initial quotes for the demanded enhanced Flood Risk Assessment range from £5000 upwards without any upper limit. This demand for such open-ended expenditure seems to us to be wholly inappropriate and entirely disproportionate bearing in mind that construction costs are less than £300 and taking account of the very limited nature of the works involved. Subsequent discussion revealed that SEPA's concerns are surrounding a hypothetical scenario of complete closure of Bridge of Hosh which would cause the backing up and eventual overflowing of Turret Burn. Bridge of Hosh lies astride the Turret Burn at the southern tip of our site. It is a publicly maintained structure with Perth & Kinross Council not just responsible for its maintenance but also legally responsible for ensuring that any obstructions likely to cause flooding are cleared<sup>2</sup>. Further research revealed quickly that SEPA are actually legally responsible for ensuring that the local authority act<sup>3</sup>.

Perth & Kinross Council, as local authority, are also obliged to maintain Flood Risk Management Plans<sup>4</sup> for any area which is at significant risk of flooding. No such plan exists for The Hosh, or even Turret Burn.

Hosh Farm Steadings was built upon an historic flood plain in 1872 and despite the passing of 146 years there is no record of any flooding on this site and certainly not since the construction during the 1930s of Bridge of Hosh following the underscouring and subsequent collapse of the ancient humped back bridge which preceded it. Hosh Farm Steadings is not built upon a functional flood plain<sup>5</sup> so the criteria referred to in Scottish Government Guidance <sup>6</sup> is not met. Referral to SEPA should not occur.

The separated west wing now known as Nether Turret, was designed with a specific demographic in mind and whilst it is not impossible that a family might wish to purchase the property at some time, should the present owners wish to sell, it is highly unlikely. On this basis we feel that the Developers'

Contribution towards the very new Crieff Primary School should be waived as we are not "Developers' as such and we have deliberately designed the property to be unattractive to young families, (less than 90sqm.) Other primary education choices are also available within this catchment without adding to the burden of Crieff Primary School.

We would be most grateful to Councillors were the application for review result in approval for us to continue our long-held aim to provide our family with a great family home in Hosh Farm Steadings. Our neighbours have been more than accommodating but they deserve for this project to move quickly to completion.

Yours faithfully

### Rod and Karen Findlay

<sup>1</sup> Town and Country Planning (Development Management Procedure) (Scotland) Regulation 25, Schedule 5.

'Consultation with SEPA'. "... where development is likely to result in material increase in number of buildings at risk of damage by flooding."

There is a general presumption against proposals for built development or land raising on a functional flood plain and in areas where there is significant probability of flooding from any source or where the proposal would increase the risk of flooding elsewhere.

<sup>&</sup>lt;sup>2</sup> Flood Risk Management (Scotland) Act 2009, Section 17, Section 18.

<sup>&</sup>lt;sup>3</sup> Flood Risk Management (Scotland) Act 2009, Section 59.

<sup>&</sup>lt;sup>4</sup> Civil Contingencies Act 2004, Part 4.

<sup>&</sup>lt;sup>5</sup> PPG25 defines a Functional Flood Plain as "... the unobstructed or acted areas where water regularly flows in times of flood." (Def. 'regularly'. 'more or less annually'.)

<sup>&</sup>lt;sup>6</sup> Scottish Government Policy EP2

Local Review Body

Perth and Kinross Council

# Hosh Farm Steadings - Matters to Consider

**Paul and Johanna Loughlin** 

October 2018

Hosh Farm Steadings: Matters to Consider

### **Background**

This short document has been prepared by Paul and Johanna Loughlin who are the owners of the property formerly known as the 'West Wing' of Hosh Farm Steadings and is now known as Nether Turret Cottage.

In January 2017, Paul and Johanna Loughlin completed the purchase of the Nether Turret Cottage (formerly 'West Wing'), buying the property from Mr and Mrs Findlay of Hosh Farm Steadings.

We are absolutely delighted with our new home and very pleased to be able to return to Scotland as proud home owners and to continue to make plans for our retirement.

### **Purpose**

The purpose of this short document is to briefly outline what we believe are the key matters that should be considered by the Local Review Body when hearing the appeal against the refusal to grant a Change of Use and subdivision application that affects our property.

### **Key Considerations**

Below are what we strongly believe to be a series of the key considerations that should play a central part of an appeal to be heard by the Local Review Body.

## 1. What has actually changed at Hosh Farm Steadings?

It is vital that all parties retain clarity on what is actually being requested at the Hosh Farm Steadings site. It is important to be clear and note that: -

- No new buildings have been built
- o **No** new rooms have been built neither bedrooms, bathrooms or living rooms
- No extensions to existing buildings or rooms have been built

Instead, all that has happened is that an already self-contained part of Hosh Farm Steadings has been partitioned or sub-divided. All that was required was the 'blocking off' of existing connections to the rest of the site in accordance with the relevant Building Control Regulations.

# 2. Why has it been necessary to seek formal input from the Scottish Environment Protection Agency (SEPA)?

This is a relevant question given the facts outlined above and since it is our

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understanding that Planning Permission has already been approved for the development of a dwelling on the site known as Hosh Farm Steadings and that SEPA were fully involved in that process.

As already outlined above, given that this is not a 'new' development and does not involve any new or additional buildings and therefore the 'foot-print' has been unchanged, the formal input from SEPA should have been viewed as unnecessary and disproportionate.

Even if the formal input from SEPA was considered as a procedural necessity, then the input should have been viewed in the proper context – as outlined above – and the 'weight' and significance attached to this advice should have been appropriately reduced.

### 3. What is the risk that is of interest?

The identified risk that appears to be of interest, is a risk of the river flooding and the river in question is the Turret Burn. This river has as its key source the Loch Turret Reservoir managed by Scottish Water. As a direct consequence, this implies that the main source of water for the Turret Burn is a carefully managed supply operated and controlled by Scottish Water.

According to SEPA's webpage, a sub-division of Scottish Water, the risk of river flooding in and around the HOSH is categorised as a Medium Likelihood event. This can be regarded as a statistically rare event and one that may, **on average**, occur **once every 200 years**. This is not an event that is likely to occur with regularity given that it has a probability of it happening in any one year, of 0.005 or 0.5%.

### 4. Has the risk of flooding changed?

Given that the Planning Authority has felt it necessary to consult SEPA about the change of use and subdivision of Hosh Farm Steadings in spite of there being no change in the footprint, it was to be expected that SEPA would focus on the risk of flooding caused by the Turret Burn and suggest that a flood risk assessment be carried out.

It should be reiterated that the flood risk assessment was previously addressed by SEPA during the original planning request process and the risk was clearly considered to be acceptable and thus planning approval was granted.

### So this raises the question, has the risk changed?

Some questions are addressed below to help answer this query.

### Have environmental factors changed?

It has been suggested that our climate is changing in such a way that we can expect more extreme weather and as a result of this suggestion, the risk of flooding has increased. As we all know, climate change still remains a hotly debated scientific topic

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Hosh Farm Steadings: Matters to Consider

that, as yet, has not reached a universally accepted viewpoint.

It is also important to note that even if there has been a climatic change for The Hosh, it is a matter of scientific fact that such a change would be very small and virtually unmeasurable in the period that has elapsed since that last SEPA assessment. Thus any possible change would be immeasurable and thus could not affect the original viewpoint that the risk was acceptable.

As a consequence of the above points, it would be unsafe to use climate change as a rationale for concluding that the risk of flooding has changed and as a result the answer to the question above is that it cannot be concluded with any certainty that environmental factors have changed since the previous risk was deemed acceptable.

### Has anything else changed?

Yes. As the flow and volume of water in the river is substantially controlled and managed by the outflow from the Loch Turret Reservoir, it is relevant to note that since the last risk assessment Scottish Water have spent millions of pounds (in excess of £30m) significantly increasing the capability of pumping water out of the reservoir to other parts of Scotland (e.g. Perth, Stirling and Grangemouth).

As a direct result, the need to divert water to the river has significantly been reduced and thus the risk of flooding has also been reduced.

### Has there been any evidence of flooding in the area?

Although the past is not always a reliable predictor of the future, in these circumstances the past is a relevant factor in the overall understanding of the risk of flooding. If there had been an established history of flooding then that would be considered relevant and so similarly, the absence of flooding cannot be ignored.

The position in the Hosh area is that there have been **no** incidents of residential flooding either since the original risk assessment or indeed as far as Council records exist.

### So, what can we conclude?

It is clear that since the last risk assessment: -

- o There have been **no** incidents of residential or road flooding
- The increased supply of water to other parts of Scotland from the Loch Turret Reservoir has reduced the outflow of water to the river and hence **reduced** the risk of flooding from the river.
- The theory of climatic change remains scientifically controversial and is therefore an unsafe basis to make conclusions about changes of risk, particularly over such a short-elapsed period since the last risk assessment when the risk was considered acceptable.

Overall, there is evidence to suggest that the risk to residential flooding has reduced since the last risk assessment was conducted. Given that at that time the risk was considered acceptable, it is reasonable to conclude that the level of risk

of flooding today remains acceptable.

### 5. What is the view of the PKC Flood Team?

PKC has a flood risk team that create, manage and implement Flood Risk Management Plans in areas of high flood risk. A local example is the plan for Comrie.

When the PKC flood team were contacted by us about flooding in the Hosh area we were duly informed, after the flood team consulted with the relevant residential and road flood records, that no such plan was in place or needed.

The view of the flood team was that as the risk of flooding was not considered to be unacceptably high **and** there were no incidents on record of either residential or road flooding in the Hosh area, there was no need for a Flood Risk Management Plan. It was further confirmed that although the risk of flooding was not zero, it was not high either and therefore the risk of flooding was considered acceptable.

# 6. Are more people impacted by the change of use and subdivision of Hosh Farm Steadings?

It has been commented to us that the risk of flooding is directly affected by the number of people living at Hosh Farm Steadings and by changing the use and subdividing Hosh Farm Steadings, this has therefore increased the risk of flooding.

Commenting as a professionally qualified Chartered Statistician and Fellow of the Royal Statistical Society, I am happy to reassure the Local Review Body that the number of people living at Hosh Farm Steadings will have absolutely no impact on the risk of flooding from the river. The number of people living there and the risk of the river flooding are statistically and logically independent and have no bearing on each other whatsoever.

In addition, it is critical to recognise that there has been **no** increase in the living capacity at Hosh Farm Steadings as a result of changing its use and subdividing the site as there have been no new buildings, no new bedrooms and no extensions to existing buildings.

Thus the clear answer to the above question is: -

- There is no statistical dependency between the number of people residing at Hosh Farm Steadings and the risk of the river flooding.
- The living capacity at Hosh Farm Steadings has not been increased as a result of a change of use and subdivision.

As a result, no more people are either impacted or at risk as a consequence of the change of use and subdivision of Hosh Farm Steadings.

Hosh Farm Steadings: Matters to Consider

### **Overall Conclusion**

We ask that the Local Review Body seriously consider the points raised in this short document and would encourage it to reach the same pragmatic, reasonable, logical and statistically sound conclusions as presented here.

We do not believe that in the context of a change of use and subdivision that does not alter the existing footprint, it was appropriate to formally consult with SEPA. Even if that was procedurally required, given the context, the 'weight' and significance attached to that input should have been significantly and suitably reduced.

It has been carefully explained that the risk of residential flooding has not increased since the previous risk assessment was deemed to be acceptable. Indeed, there are facts to prove that this risk has reduced over this period of time given the fact that Scottish Water now have greater capacity to pump water to supply other parts of Scotland.

We also ask the Local Review Body to take due cognisance of the fact that Council records show that there has been no incidents of either residential or road flooding in the Hosh area, to date.

As a result of the change of use and subdivision, it has been carefully explained that no more people are at risk or impacted if the statistically rare event of a river flooding were to happen.

For these reasons, we support the appeal that is before the Local Review Body and ask that the Body grant the appeal.

Paul R Loughlin (Chartered Statistician) & Johanna M Loughlin

Date: 4th October 2018

Torran House The Hosh Crieff PH7 4HA 3<sup>rd</sup> Oct 2018

Perth and Kinross Council Planning and Development Pullar House 35 Kinnoull Street Perth PH1 5GD

Dear Sir/Madam,

### Change of Use and Alteration of Hosh Farm Steading The Hosh Crieff PH7 4HA

I refer to the development of the steadings at the Hosh Crieff.

I understand from Mr Findlay that the recent application for development of the Hosh Farm Steadings has been refused and that he is considering an appeal.

The primary views from Torran House are towards the Bridge of Hosh but it includes the eastern part of the steadings adjacent to the public road.

I do not wish to comment on the planning process which led to rejection of the application. However, I express my concern that building works associated with this development have continued over many years and have inevitably impacted on the visual amenity of the area. The steadings are in full view of the public road which is used not just for local access but by visitors to the Famous Grouse Distillery. Furthermore, various public walks are routed past location.

The timescale for completion of the building work now seems at large. I trust some way forward can be found to bring the building works to a satisfactory conclusion and thereby enhance the visual amenity and rural ambiance which are key assets of this hamlet.

Yours faithfully



Michael MacKintosh

cc. Mr & Mrs R Findlay

wrote:

----Original message----

From:

Date: 07/10/2018 - 11:47 (GMTDT)

To: planninglrb@pkc.gov.uk

Subject: Hosh Farm Steadings Planning Application

### **Dear Sirs**

Hosh Farm Steadings - PH7 4HA Planning Application for Sub Division Applicant Name - R. Findlay

I reside at The Hosh Farmhouse PH7 4HA with my wife and have lived at this address since October 1999. We are neighbours of Mr and Mrs Findlay.

I understand that consent to the above Planning Application has been refused and the matter is now to be referred to the Local Review Body.

I am registered with Perth & Kinross Planning and Regeneration in my capacity as Chairman of the Hosh Residents Association.

I am aware from your records that Planning Permission was originally given as per your letter of 21/03/2006, subject to conditions and would be valid for 5 years.

I am also aware, again from your records, that as a result of changes made by the applicant a new Planning Application would be required - your letter of 05/11/2008 refers.

I further understand that the latest planning application has resulted in SEPA requesting an enhanced Flood Risk Assessment on the basis of the Bridge

of Hosh becoming 100% blocked. Such an occurrence concerns me considerably- as it would other Hosh residents in the area - and if that occurrence

adversely impacts the decision on granting planning consent then surely there should be in place and maintained, a Flood Management Plan.

I understand that prior to the 2017 Application a Flood Risk Assessment had been submitted and approved.

Hosh residents have been supportive, over the years, of the Findlay's plan to develop the old Hosh Farm Steadings, on its existing site, from what were derelict buildings, into a family home.

I sincerely hope that an acceptable solution to all parties can be found and Planning Consent given which enables the development to be completed and the Findlay family able to take residence in a home they have spent years in working towards.

Yours faithfully lain M.B.Neilson

North Barn The Hosh Crieff Perthshire PH7 4HA 02/10/2018

To Whom it may concern,

I have been asked by my neighbour to make comment in relation to a recent planning application to complete Hosh Farm Steadings, which I am happy to do so. I have not previously left comments on application via P&K Planning Portal as I have never had any objections to any proposals for Hosh Farm Steadings.

I note from research via Perth and Kinross Council planning portal that Planning Permission was previously granted in application 10/02058/FLL for this site.

On viewing comments in relation to the most recent planning application 18/00726/FLL, I note the reason for refusal of the application was :-

a satisfactory flood risk assessment has not been provided to confirm that the increase in residential dwelling units on the site can be accommodated.

I am surprised with the decision to refuse to grant planning permission on an application for a property that has previously been granted permission for, with the only major difference in layout from the last application is the removal of a swimming pool building.

The current building which is a large agricultural barn, has been in place since the late 1800s. The footprint of this building is the same as that proposed in the 18/00726/FLL. The completion of Hosh Farm Steadings as a finished project would have no further impact any building already in place within the Hosh as it will not change the flood plain layout.

I note in a document dated 08/06/2010 (Environmental –flood section; on the 2010 application) that the flood authority in 2010 objected to the development and P&K went on to grant the planning permission at that time. Now the new application has been refused on a similar objection to the 2010 application. Am I correct that local authorities are not bound by consultees comments and you could grant the application as you did in 2010?

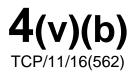
Mr Findlay and family have been working towards finishing the barn for many years and have invested a great deal of their lives and money into the project and I see it as a real blow not only for the Findlay family but for the local community in the Hosh that this project is not able to go ahead due to a technicality.

The area has a substantive footfall of visitors who choose to holiday in the local area with the local Glenturret Distillery having over 250k people attend in 2017. The completion of this building could only have a positive outcome for the Findlay's and the local community/businesses and tourism.

I ask Perth and Kinross Council Planning committee to re-consider the Findlay's right to a family life and grant them permission to finish what they have started.

Robert Southern and Lisa Eglin

North Barn The Hosh Crieff.



TCP/11/16(562) – 18/00726/FLL – Change of use and alterations to agricultural steading to form 2 dwellinghouses, alterations to existing vehicular access and associated works (in part retrospect) vehicular access and associated works (in part retrospect) at Hosh Farm Steading, The Hosh, Crieff, PH7 4HA

PLANNING DECISION NOTICE
REPORT OF HANDLING
REFERENCE DOCUMENTS

#### PERTH AND KINROSS COUNCIL

Mr Rod Findlay c/o Arum Resources Ltd Grant Simpson 56 Monteath Street Crieff PH7 3BL Pullar House 35 Kinnoull Street PERTH PH1 5GD

Date 24th August 2018

#### TOWN AND COUNTRY PLANNING (SCOTLAND) ACT

Application Number: 18/00726/FLL

I am directed by the Planning Authority under the Town and Country Planning (Scotland) Acts currently in force, to refuse your application registered on 3rd May 2018 for permission for Change of use and alterations to agricultural steading to form 2no. dwelling-houses, alterations to existing vehicular access and associated works (in part retrospect) vehicular access and associated works (in part retrospect) Hosh Farm Steading The Hosh Crieff PH7 4HA for the reasons undernoted.

Interim Development Quality Manager

#### **Reasons for Refusal**

1. The proposal is contrary to Policy EP2 New Development and Flooding of the Perth and Kinross Local Development Plan 2014, as the proposed development is located in an area where there is a significant probability of flooding and a satisfactory flood risk assessment has not been provided to confirm that the increase in residential dwelling units on the site can be accommodated.

#### **Justification**

The proposal is not in accordance with the Development Plan and there are no material reasons which justify departing from the Development Plan.

The plans relating to this decision are listed below and are displayed on Perth and Kinross Council's website at <a href="https://www.pkc.gov.uk">www.pkc.gov.uk</a> "Online Planning Applications" page

Plan Reference	
18/00726/11	
18/00726/2	
18/00726/3	
18/00726/4	
18/00726/5	
18/00726/6	
18/00726/7	
18/00726/8	
18/00726/9	
18/00726/10	

## REPORT OF HANDLING DELEGATED REPORT

Ref No	18/00726/FLL	
Ward No	P6- Strathearn	
Due Determination Date	02.07.2018	
Case Officer	John Russell	
Report Issued by		Date
Countersigned by		Date

**PROPOSAL:** Change of use and alterations to agricultural steading to

form 2no. dwelling-houses, alterations to existing vehicular

access and associated works (in part retrospect)

vehicular access and associated works (in part retrospect)

**LOCATION:** Hosh Farm Steading The Hosh Crieff PH7 4HA

#### SUMMARY:

This report recommends **refusal** of the application as the development is considered to be contrary to the relevant provisions of the Development Plan and there are no material considerations apparent which justify setting aside the Development Plan.

**DATE OF SITE VISIT: 15 August 2018** 

#### SITE PHOTOGRAPHS





#### **BACKGROUND AND DESCRIPTION OF PROPOSAL**

This application relates to Hosh Steading. The River Turret is to the west of the site and the public road to the east. On the opposite bank of the site there is the Ochertyre Historic Garden Design Landscape and downstream of the site is the Hosh Bridge.

The site is located to the north-west of Crieff and I note that historically this as well as surrounding land and property was included in a settlement boundary in the Strathearn 2001 Adopted Local Plan. However, this settlement boundary is no longer in the adopted Perth and Kinross Local Development Plan 2014.

There is a considerable amount of history associated with the site. Planning was granted for the steadings conversion and refurbishment under application 05/02058/FUL. This included the demolition of remaining outbuildings and erection of three holiday cottages to the north of the steading building.

A further application was sought as works being undertaken at the site were not in compliance with the earlier permission. As a consequence application 10/00583/FFL for a single unit was submitted and subsequently approved. This was a smaller site area than the 2005 consent and did not include the area where the three holiday units were proposed.

Following the 2010 approval a number of other applications were submitted to split the steading into 2 units in 2017 but these were either returned or subsequently withdrawn.

This application seeks planning consent for alterations to the steading to form 2no. dwelling-houses, alterations to existing vehicular access and associated works as well as the formation of vehicular access (in part retrospect). From the site inspection it appears that unit 2 is largely complete with outstanding works relating to unit 1.

#### SITE HISTORY

05/02058/FUL Alterations and conversion of farm steading building into a house and swimming pool, demolition of remaining outbuildings and erection of three holiday cottages and garage block 23 March 2006, application permitted.

10/00583/FLL Conversion of steading to dwellinghouse, swimming pool and garage (modification to 05/02058/FUL) 9 August 2010, application permitted.

17/00621/FLL Splitting of "Bridge of Hosh Steading" to make a semi detached dwelling from the west most part 26 April 2017, application returned.

17/00622/FLL Removal of Westermost leg from approved steading conversion 10//00583/FLL to create semi detached dwelling 25 April 2017, application returned.

17/01114/FLL Change of use and alterations to agricultural steading to form 2no dwellinghouses, formation of vehicular access and associated works (in part retrospect) 2 July 2017, application returned.

17/01121/FLL Change of use and alterations to agricultural steading to form 2no. dwellinghouses, formation of additional vehicular access and associated works (in part retrospect) 21 August 2017, application withdrawn

#### PRE-APPLICATION CONSULTATION

Pre application Reference: None.

#### NATIONAL POLICY AND GUIDANCE

The Scottish Government expresses its planning policies through The National Planning Framework, the Scottish Planning Policy (SPP), Planning Advice Notes (PAN), Creating Places, Designing Streets, National Roads Development Guide and a series of Circulars.

#### **DEVELOPMENT PLAN**

The Development Plan for the area comprises the TAYplan Strategic Development Plan 2016-2036 and the Perth and Kinross Local Development Plan 2014.

### TAYplan Strategic Development Plan 2016 – 2036 - Approved October 2017

Whilst there are no specific policies or strategies directly relevant to this proposal the overall vision of the TAYplan should be noted. The vision states "By 2036 the TAYplan area will be sustainable, more attractive, competitive and vibrant without creating an unacceptable burden on our planet. The quality of life will make it a place of first choice where more people choose to live, work, study and visit, and where businesses choose to invest and create jobs."

## Perth and Kinross Local Development Plan 2014 – Adopted February 2014

The Local Development Plan is the most recent statement of Council policy and is augmented by Supplementary Guidance.

The principal policies are, in summary:

#### Policy PM1A - Placemaking

Development must contribute positively to the quality of the surrounding built and natural environment, respecting the character and amenity of the place. All development should be planned and designed with reference to climate change mitigation and adaption.

#### Policy PM1B - Placemaking

All proposals should meet all eight of the placemaking criteria.

#### Policy PM3 - Infrastructure Contributions

Where new developments (either alone or cumulatively) exacerbate a current or generate a need for additional infrastructure provision or community facilities, planning permission will only be granted where contributions which are reasonably related to the scale and nature of the proposed development are secured.

#### Policy PM4 - Settlement Boundaries

For settlements which are defined by a settlement boundary in the Plan, development will not be permitted, except within the defined settlement boundary.

#### Policy RD3 - Housing in the Countryside

The development of single houses or groups of houses which fall within the six identified categories will be supported. This policy does not apply in the Green Belt and is limited within the Lunan Valley Catchment Area.

Policy TA1B - Transport Standards and Accessibility Requirements
Development proposals that involve significant travel generation should be
well served by all modes of transport (in particular walking, cycling and public
transport), provide safe access and appropriate car parking. Supplementary
Guidance will set out when a travel plan and transport assessment is required.

#### Policy NE3 - Biodiversity

All wildlife and wildlife habitats, whether formally designated or not should be protected and enhanced in accordance with the criteria set out. Planning permission will not be granted for development likely to have an adverse effect on protected species.

Policy ER6 - Managing Future Landscape - Change to Conserve and Enhance the Diversity and Quality of the Area's Landscapes Development proposals will be supported where they do not conflict with the aim of maintaining and enhancing the landscape qualities of Perth and Kinross and they meet the tests set out in the 7 criteria.

#### Policy EP2 - New Development and Flooding

There is a general presumption against proposals for built development or land raising on a functional flood plain and in areas where there is a significant probability of flooding from any source, or where the proposal would increase the probability of flooding elsewhere. Built development should avoid areas at significant risk from landslip, coastal erosion and storm surges. Development should comply with the criteria set out in the policy.

#### Policy EP3B - Water, Environment and Drainage

Foul drainage from all developments within and close to settlement envelopes that have public sewerage systems will require connection to the public sewer. A private system will only be considered as a temporary measure or where there is little or no public sewerage system and it does not have an adverse effect on the natural and built environment, surrounding uses and the amenity of the area.

Policy EP3C - Water, Environment and Drainage All new developments will be required to employ Sustainable Urban Drainage Systems (SUDS) measures.

#### OTHER POLICIES

#### **Development Contributions**

Sets out the Council's Policy for securing contributions from developers of new homes towards the cost of meeting appropriate infrastructure improvements necessary as a consequence of development.

#### **Housing in the Countryside Guide**

A revised Housing in the Countryside Policy was adopted by the Council in October 2014. The policy applies over the whole local authority area of Perth and Kinross except where a more relaxed policy applies at present. In practice this means that the revised policy applies to areas with other Local Plan policies and it should be borne in mind that the specific policies relating to these designations will also require to be complied with. The policy aims to:

- Safeguard the character of the countryside;
- Support the viability of communities;
- Meet development needs in appropriate locations;
- Ensure that high standards of siting and design are achieved.

The Council's "Guidance on the Siting and Design of Houses in Rural Areas" contains advice on the siting and design of new housing in rural areas.

#### Flood risk and flood risk assessments

This Guidance assists developers, their consultants and all stakeholders involved in the planning process in relation to flooding and drainage about the requirements of Perth & Kinross Council; including when a flood risk assessment will be required, and what that assessment should contain.

This Guidance is intended as supplementary guidance for the area of Perth and Kinross in respect of existing national legislation and guidance regarding flooding and drainage. It also aims to encourage an increased awareness, understanding and knowledge in flooding and drainage issues of everyone involved in the development process and thus make Perth and Kinross a safer place to live, work and visit.

This Guidance relates to the Local Development Plan Policy EP2: New Development and Flooding. It was adopted in October 2014.

#### **CONSULTATION RESPONSES**

Historic Environment Scotland - Have considered the information received and do not have any comments to make on the proposals relationship with Ochtertyre HGDL.

Scottish Environment Protection Agency – Object. In the first response they advised the submitted information was inadequate to demonstrate that the proposed development is outwith the 0.5% AP (1:200) floodplain. SEPA strongly recommend that a satisfactory FRA be undertaken that includes both a hydrological assessment and hydraulic modelling to establish design flood levels at the site.

The agent responded to the SEPA objection but did not provide a detailed FRA. SEPA's second response confirms they still remain of the opinion that a detailed FRA is required in order to understand the risk of flooding to the development. It is SEPA's view that the proposal to create two dwellinghouses from this one building may potentially increase in the number of people at risk of flooding, which is contrary to the principles of Scottish Planning Policy.

In the event that the planning authority proposes to grant planning permission contrary to this advice on flood risk, the Town and Country Planning (Notification of Applications) (Scotland) Direction 2009 provides criteria for the referral to the Scottish Ministers of such cases.

Structures and Flooding - Agree with SEPA's request that there are issues with the supplied FRA and that a further detailed FRA should be submitted as part of the application.

Transport Planning – No objection received.

Contributions Officer – Contribution required.

Scottish Water – No objection.

Environmental Health – No objection.

Perth and Kinross Area Archaeologist – The proposed development does not raise any significant archaeological issues. No archaeological mitigation is required in this instance.

#### REPRESENTATIONS

None.

#### ADDITIONAL INFORMATION RECEIVED:

Environmental Impact Assessment	Not Required
(EIA)	
Screening Opinion	Not Required
EIA Report	Not Required
Appropriate Assessment	Not Required
Design Statement or Design and	Submitted
Access Statement	
Report on Impact or Potential Impact	Submitted
eg Flood Risk Assessment	

#### APPRAISAL

Sections 25 and 37 (2) of the Town and Country Planning (Scotland) Act 1997 require that planning decisions be made in accordance with the development plan unless material considerations indicate otherwise. The Development Plan for the area comprises the approved TAYplan 2016 and the adopted Perth and Kinross Local Development Plan 2014.

The determining issues in this case are whether; the proposal complies with development plan policy; or if there are any other material considerations which justify a departure from policy.

#### **Policy Appraisal**

The local plan through Policy PM4 - Settlement Boundaries specifies that development will not be permitted, except within the defined settlement boundaries which are defined by a settlement boundary in the Plan.

However, through Policy RD3 - Housing in the Countryside it is acknowledged that opportunities do exist for housing in rural areas to support the viability of communities, meet development needs in appropriate locations while safeguarding the character of the countryside as well as ensuring that a high standard of siting and design is achieved. Thus the development of single houses or groups of houses which fall within the six identified categories will be supported.

The Hosh is no longer a settlement in the current adopted LDP. However, having had the opportunity to undertake a site visit and assess the plans I consider the application relates to (e) Conversion or replacement of redundant non-domestic buildings.

Within the Housing and Countryside SPG under section 5 it confirms that Consent will be granted for the conversion of redundant non-domestic buildings to form houses subject to compliance with detailed criterion.

In this case the building is of traditional form and construction, is of architectural merit and it does make a positive contribution to the landscape and contributes to local character. The proposed alterations to the proposal are in harmony with the existing building form and materials.

Taking the above into account I consider the principle of the proposal to comply with Policy RD3. However, there is a conflict with Policy EP2: Flooding which means the application cannot be supported. This is discussed in greater detail below under the Flooding Heading below.

#### **Design and Layout**

Policy PM1A and PM1B confirms that development must contribute positively, to the quality of the surrounding built and natural environment. All development should be planned and designed with reference to climate change, mitigation and adaptation.

The agent has submitted a design statement which explains the project ethos. I am content with the deletion of the swimming pool extension and I am generally content with the way the conversion takes account of the existing buildings form. I note that there are no details of the new ramp feature that is proposed to be installed. I cannot fully ascertain or assess this element of the development and this could also have implication for flood risk at the site.

#### Landscape

Policy ER6 of the local plan seeks to ensure that local distinctiveness, diversity and quality of the landscape character area, the historic and cultural dimension of the area's landscapes, visual and scenic qualities of the landscape, or the quality of the landscape experience is not eroded.

I do not consider that the proposed development will conflict with landscape aims within Policy ER6.

#### **Residential Amenity**

There are neighbouring residential units to the north of the site, properties across the public road to the east as well as properties on the opposite side of the riverbank to the west.

Taking account of the building orientation, distances and relationship with the public road as well as the approved fenestration with the earlier approved application 10/00583/FLL I do not consider this proposal will result in any significant adverse impact on neighbouring residential amenity. In addition I do not consider there will be a conflict between the two proposed units. There is also a sufficient amount of amenity space for the proposed plots.

#### Roads and Access

The proposal if made subject to conditional control would not adversely impact on road or pedestrian safety. Accordingly, it would not conflict with Policy TA1B.

#### **Drainage and Flooding**

Disposal of surface water requires to be dealt with via a sustainable urban drainage system to comply with policy EP3C. The proposal seeks to utilise a septic tank for foul drainage as there is no connection to the public sewerage network.

With regards to flooding the latest SEPA Flood Risk Mapping (2018 version 1.3) were reviewed these maps show areas which are likely to flood from rivers, the sea and surface water. This identified that the site is at potential risk from flooding and SEPA were consulted along with the Council's Flood Team.

SEPA responded and confirmed they objected to the proposed development on the grounds that it may place buildings and persons at flood risk contrary to Scottish Planning Policy.

They noted that the Level 1 FRA in support of the current application is inadequate. A more detailed FRA is required to demonstrate that the proposed development is outwith the 0.5% AP (1:200) floodplain. A satisfactory FRA should include both a hydrological assessment and hydraulic modelling to establish design flood levels at the site. The FRA should take account of the impact of climate change and potential bridge blockage. Development levels should include an appropriate freeboard allowance in addition to an allowance for climate change impacts.

The agent was contacted and made aware of the SEPA consultation response. The agent responded and noted the following:-

- The levels have already been set at the proposed levels shown, due to existing planning permissions.
- The proposals are fundamentally an internal subdivision and have no effect or impact on what any flood level reaches in the future.
- There is no additional flood risk from these proposals. Indeed with the removal of the swimming pool this increases the area available in event of a flood.
- There is an inconsistent approach from consultees on flooding in the area around this development (Precedent).

They contend that the scenarios outlined in their Flood Risk Assessment are valid and robust, and in line with other assessments carried out in the immediate vicinity.

The agent's response was forwarded to SEPA for comment. Their stance remains unchanged. They still consider that the FRA should consider the impact of climate change, blockage scenarios, freeboard allowance and any appropriate mitigation. It is SEPA's view that the proposal to create two dwellinghouses from this one building may potentially increase in the number of people at risk of flooding, which is contrary to the principles of Scottish Planning Policy.

The Council's Flood Team also object to the application.

SEPA have confirmed that in the event that the planning authority proposes to grant planning permission contrary to this advice on flood risk, the Town and Country Planning (Notification of Applications) (Scotland) Direction 2009 provides criteria for the referral to the Scottish Ministers of such cases.

The agent has raised precedent creation of nearby planning decisions and this is an important matter for the Planning Authority to take into account as if ignored it may leave the Planning Authority open to claims of inconsistency.

A common scenario is a situation where a previous permission has been granted in the same area that may not have been entirely consistent with policy or was simply a bad decision. However, every site presents different characteristics and policies do change.

My assessment of precedent creation needs to take account of whether there is sufficient similarity of conditions and if there is a precedent it will be important consideration in the planning decision.

The agent has referred to a number of planning applications surrounding the site. These sites like the Hosh have historic consents in place predominantly dating back to when the Hosh was a settlement in the Local Development Plan and before the inception of the SEPA Flood Risk Maps and the Flood Risk Management (Scotland) Act 2009.

From reviewing the planning cases the Planning Authority has had to manage the assessment of these applications taking account of flood risk and the fact there were historic consents that could be built out. While admittedly this is not a great situation to be in, it has occurred and it has to be managed.

What sets the Hosh apart from these applications is the proposed increase of number of dwellings on the site. Taking the above into account I do not consider a precedent creation has occurred as the Hosh application increases the numbers of units at the site.

Furthermore, from my site inspection the site characteristics at the Hosh are different to the other applications being located closer to the bridge and potentially more vulnerable to flooding from blockages.

Overall I place weight on the SEPA consultation response and consider there is not sufficient information to ascertain the acceptability of the proposed

development at the Hosh based on the information submitted to date. In light of this there is a conflict with Policy EP2.

#### **Developer Contributions**

The Council Developer Contributions Supplementary Guidance requires a financial contribution towards increased primary school capacity in areas where a primary school capacity constraint has been identified. A capacity constraint is defined as where a primary school is operating, or likely to be operating following completion of the proposed development and extant planning permissions, at or above 80% of total capacity. This proposal is within the catchment of Crieff Primary School where there is a primary school capacity constraint.

The site has extant planning consent under 10/00583/FLL for the conversion of the steading into a single dwellinghouse. This proposal seeks to sub-divide the steading to create an additional dwelling. This additional dwelling will be required to pay a £6460 contribution towards primary education.

#### **Economic Impact**

The economic impact of the proposal is likely to be minimal and limited to the construction phase of the development.

#### Conclusion

In conclusion, the application must be determined in accordance with the adopted Development Plan unless material considerations indicate otherwise. In this respect, the proposal is not considered to comply with the approved TAYplan 2016 and the adopted Local Development Plan 2014. I have taken account of material considerations and find none that would justify overriding the adopted Development Plan. On that basis the application is recommended for refusal.

#### APPLICATION PROCESSING TIME

The recommendation for this application has not been made within the statutory determination period.

#### LEGAL AGREEMENTS

None required.

#### **DIRECTION BY SCOTTISH MINISTERS**

None applicable to this proposal.

#### RECOMMENDATION

#### Refuse the application

#### **Reasons for Recommendation**

The proposal is contrary to Policy EP2 New Development and Flooding of the Perth and Kinross Local Development Plan 2014, as the proposed development is located in an area where there is a significant probability of flooding and a satisfactory flood risk assessment has not been provided to confirm that the increase in residential dwelling units on the site can be accommodated.

#### Justification

The proposal is not in accordance with the Development Plan and there are no material reasons which justify departing from the Development Plan.

#### **Informatives**

None

#### **Procedural Notes**

Not Applicable.

#### PLANS AND DOCUMENTS RELATING TO THIS DECISION

18/00726/2

18/00726/3

18/00726/4

18/00726/5

18/00726/6

18/00726/7

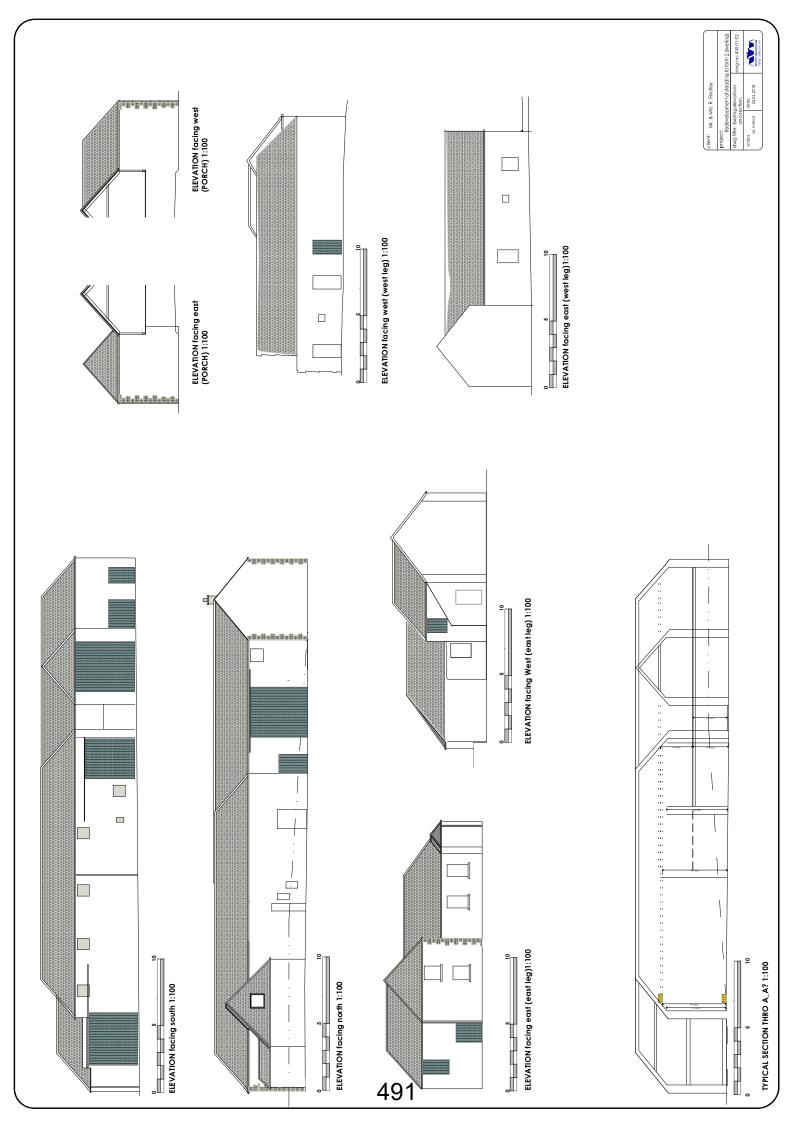
18/00726/8

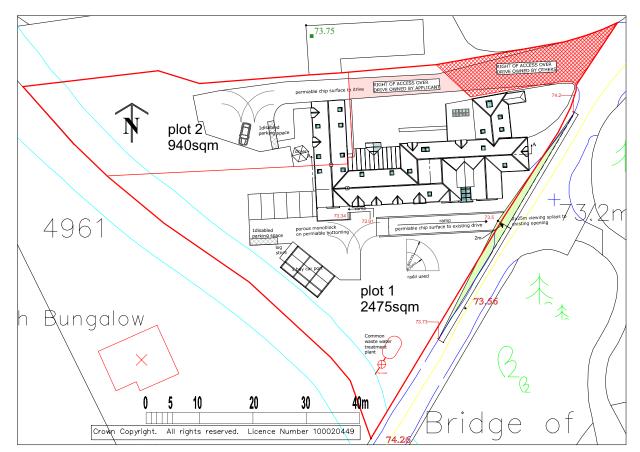
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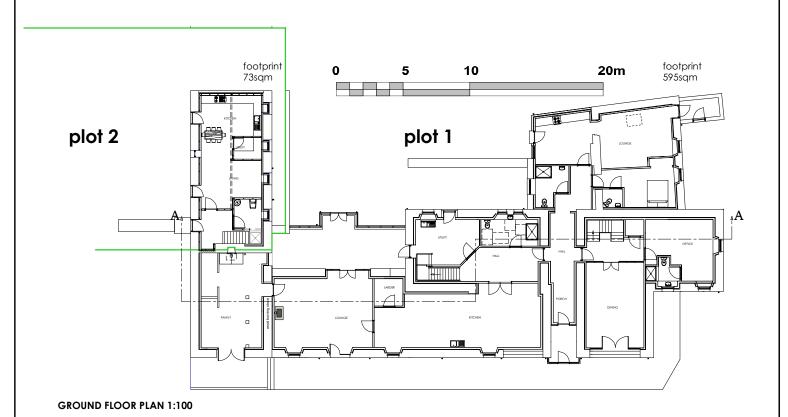
18/00726/11

Date of Report 24.08.2018





**SITE BOUNDARY PLAN 1:250** 



client: Mr. & Mrs. R. Findlay
project:
Redevelooment of steading to form 2 dwellings
dwg tiffle: Site and ground
floor plan
scoles
as noted
24 04 2018

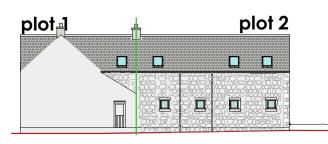


**ELEVATION facing north 1:100** 

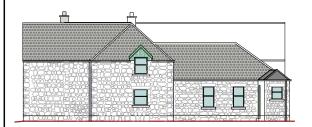




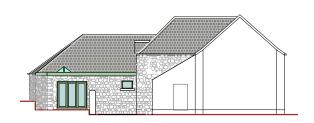
ELEVATION facing west (west leg) 1:100



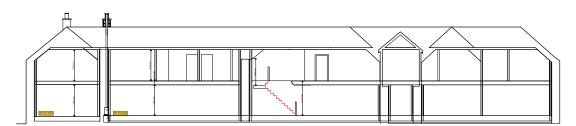
ELEVATION facing east (west leg)1:100



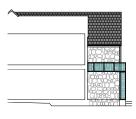
ELEVATION facing east (east leg)1:100



ELEVATION facing West (east leg) 1:100



TYPICAL SECTION THROUGH A\_A 1:100



ELEVATION facing west (PORCH)1:100



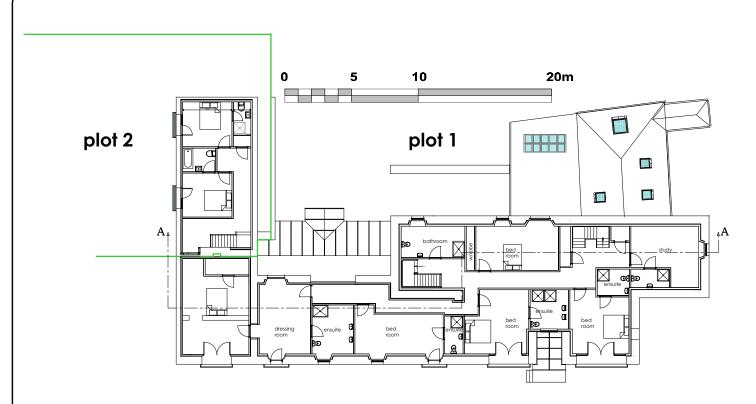
ELEVATION facing east (PORCH)1:100

roofs : natural slate gutters & downpipes : black cast iron/upvc walls (existing) : natural stone

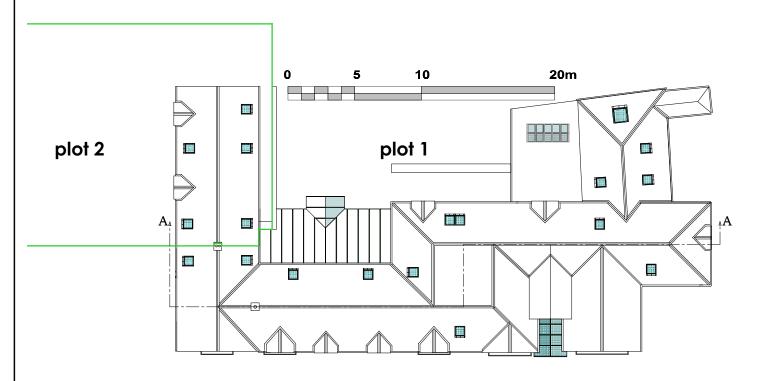
walls (new) : wet dash render doors & windows : upvc

cills, garden walls, retaining walls: natural stone





FIRST FLOOR PLAN 1:100



ROOF PLAN 1:100





# Proposed Refurbishment of Hosh Farm Steadings, By Crieff, PH7 4HA Mr + Mrs Finlay

#### **Design Statement**

#### Introduction

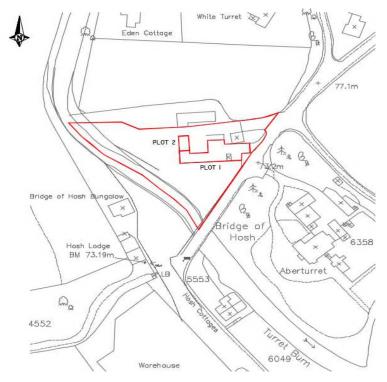
Arum Resources Ltd have been appointed to provide design solutions, by the clients, Mr + Mrs Finlay, to the refurbishment of the existing partially completed steading conversion of Hosh Farm Steadings, near Crieff.

#### **Existing Condition**

The site was formerly used as a farm steading before its refurbishment to a single dwelling house. Please refer to Perth and Kinross Council reference 05/02058/FUL and 10/00583/FFL. An application to split the steading into 2 units was applied for under 17/01121/FLL but was withdrawn, awaiting further information to clarify the situation on the ground. This new application similarly requests that planning approval is granted to split the original approved dwelling into 2 seperate dwellings. At this stage, part of the dwelling is currently occupied and this area forms plot 2 as described on the submitted plans.

#### **Defined Site**

The site is situated off of the unclassified road from Crieff to Monzie, and this forms the eastern boundary. The site is broadly triangular in shape with the river Turret forming the south western boundary and the access road serving another dwelling in this hamlet forming the northern boundary.



Location plan n.t.s

#### **Proposals**

The proposed refurbishment of plot 1 is a continuation of the works carried out to plot 2. This will create a sympathetic conversion of the steading building including

- utilising the existing stonework walls
- reusing existing openings for windows and doorways
- maintaining existing roof pitches where possible
- the use of high quality, appropriate, alternative materials were required such as timber cladding to dormers.

#### Size

The external dimensions of the building on Plot 1 varies but is generally 40m long x 11m wide. The external dimensions of the building on Plot 2 also varies but is generally 10m long x 6m wide.. The gross external footprint of both plots is  $559 \text{ m}^2$ . The site area of plot 1 is  $2475\text{m}^2$ , and the site area of plot 2 is  $940\text{m}^2$  with a shared access to the north.





# SIMPLE FLOOD RISK ASSESSMENT AT HOSH FARM STEADINGS, THE HOSH REPORT REF 430/01/01

#### Client

Mr + Mrs Findlay Hosh Farm Steadings The Hosh By Crieff

#### **Engineer**

Grant Simpson On Behalf of Arum Resources Ltd

**Arum Resources Ltd,** 56 Monteath Street, Crieff, Perthshire,PH7 3BL. Company Registered in Scotland No: 347898 *Freelance Engineering Services and Utility Consultancy.* 

1.1.	Site description	2
1.2.	Scope of works	2
2.1.	Background Site Data	3
3.1.	Methodology	4

#### **Appendices**

- A. Flood Risk Assessment Checklist.
- B. Topographic survey / overland flood route
- C. Existing bridge dimensions
- D. Location Map

#### 1.1 Site description

The site has been earmarked for a split to an existing dwelling constructed under planning permission 10/00583/FLL. One of the dwellings proposed by this split has been constructed. The other section of steading (to which this report refers) is awaiting development. The site relevant to the application is approximately 0.34 hectares in area. The site is bounded to the east by an unclassified road from Crieff to Monzie. This road has a single span bridge to the south east of the site. This crosses the river Turret which bounds the site to the west / south west. To the north are further dwellings and access road into site.

The dominant features of the site are the existing buildings and river Turret. The existing ground of the site falls toward the river from the steading by approximately 2.2m or 1 in 7 at its steepest point.

This proposal is an amendment to the original approved application. 10/00583. This consists of the subdivision of the plot into 2 units, with the removal of the swimming pool annexe, which previously covered an area of circa 100m2.

This amendment does not increase the flood risk from the original application, and with the removal of the swimming pool will reduce the flood risk danger considerably.



View from east bank to proposed dwelling

#### 1.2 Scope of works

Arum Resources Ltd were commissioned by Mr + Mrs Findlay, as owners of the property, to undertake a simple flood risk assessment to confirm.

a) finished floor level of 73.60m as being suitable.

#### 2.1 Background Site Data

The site is a brownfield site with no known issues of flooding in the past. It is noted to be within the high and medium liklihood of fluvial flooding from the adjacent watercourse as shown on SEPA flood risk management mapping. As such a Flood Risk Assessment is required. The flood risk management mapping shows an 0.5% annual probability of flooding in any given year. Also known as 1 in 200 year flood event.

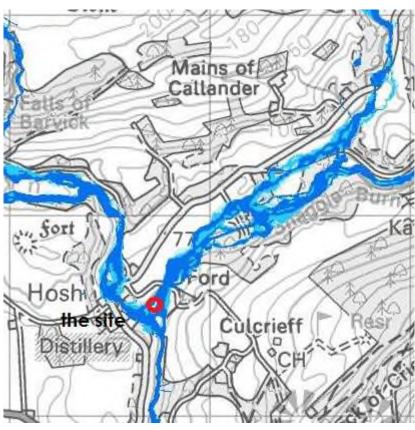


Fig 1. extract from SEPA flood risk map

A level survey of the site was carried out in 2010, and at the time was sufficient to allow approval of the original proposal. This was due to the probability of flood water favouring the southern / western bank as it is significantly lower than the northern / eastern bank, where the proposal is located by some 300mm. Essentially the case for this amendment is improved considerably by the ommission of the

swimming pool annexe in this application. (see appendix b.) The watercourse is constrained by a single span road bridge (see appendix c). If in the event of blocking of the watercourse under the bridge, the flood water will overtop on the southern side of the bridge. The level of this overflow flow has been assessed as 73.00mm.

The river Turret is significantly controlled by the dam at Loch Turret Water Treatment Works some 4 miles upstream from this point.

#### 3.1 Methodology

As this is conversion that has already received planning permission, and is a reduction to that previously approved, it is appropriate to assess this in a simplified manner.

The existing structure is roofed and no further hardstanding of any significance will be added that would contribute to further flooding downstream. Rainwater downpipes will be taken to soakaways on site.

To assess, the proposed finished floor level of 73.6m from the previous approved application is taken once more. To justify this, an allowance of + 600mm has been made to the level of the overland flowroute of 73.0mm (refer to appendix b)

It is considered that should a flood event ever occur to the point where the proposed dwelling is threatened, then floodwater will overtop in the first instance on the southern side of the bridge, and return to the watercourse. This assumes that flooding reaches this level in any case.



View to southern end of bridge (73.00m aod)

#### 4.1 Conclusion

The proposed dwelling should have a finished floor level of 73.6m

The overland flow route is to the opposite bank of the watercourse, bounding the site. This level has been determined as being at 73.00mm.

The proposed development will not cause any worsening of flooding downstream of the site.

## **APPENDICES**

## **APPENDIX A**

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	Envir
Ш	rote
S	Scot

Flood Risk Assessment (FRA) Checklist

This document should be attached within the front cover of any flood risk assessments issued to Local Planning Authorities (LPA) in support of a development proposal which may be at risk of flooding. The document will take only a few minutes to complete and will assist SEPA in reviewing FRAs, when consulted by LPAs. This document should not be a substitute for a FRA.

(SS-NFR-F-001 - Version 13 - Last updated 15/04/2015

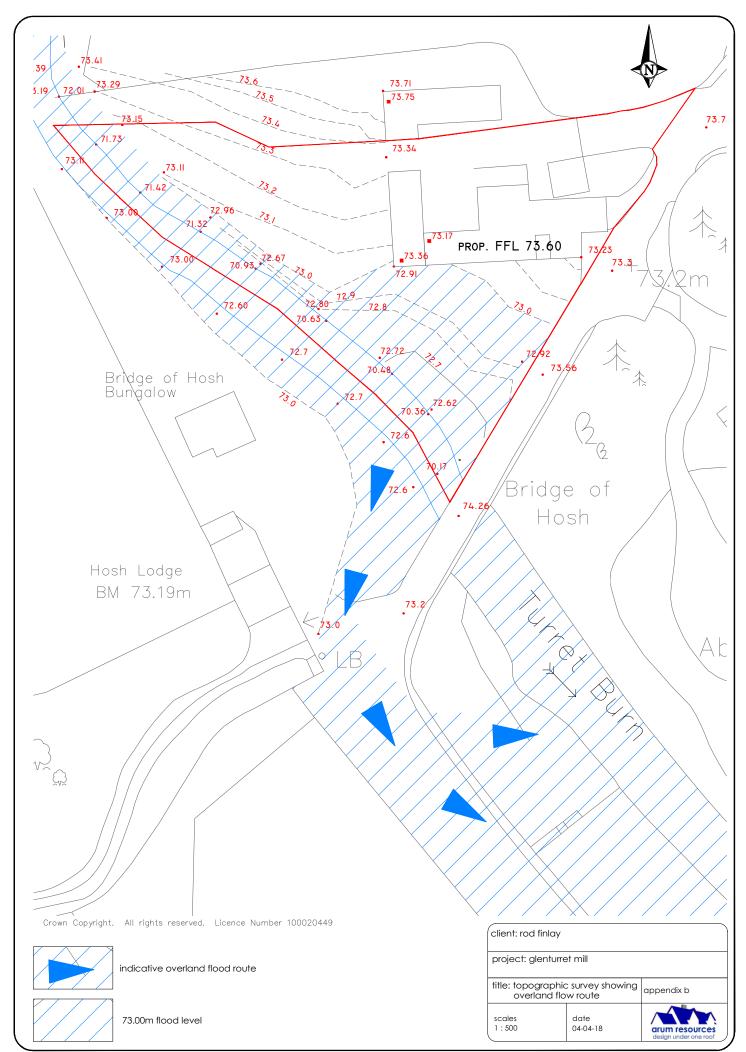
Development Proposal						
		į	;			
		Glenturret Mill, The Hosh By Crieff	Hosh By Crieff			
Grid Reference	Easting:		Northing:			
Local Authority		Pel	Perth and Kinross Council	i.o		
Planning Reference number (if known)						
Nature of the development		Residential	If resid	ential, state type:	If residential, state type: conversion of steading to residential building	esidential building
Size of the development site		0.34 Ha	Ha			
Identified Flood Risk	Source:	Fluvial	Sour	Source name:	SEPA Flood risk map	
Supporting Information						
Have clear maps / plans been provided within the FRA						
(including topographic and flood inundation plans)		Yes				
Has a historic flood search been undertaken?		No				
ls a formal flood prevention scheme present?		No	<b>J</b>	known, state the st	If known, state the standard of protection offered	pe
Current / historical site use		Existing Steading				
Hydrology						
Area of catchment		n/a	km²			
Qmed estimate		n/a	m³/s	Method:	Other	
Estimate of 200 year design flood flow		n/a	m³/s			
Estimation method(s) used *		Other	If oth	ner (please specify	If other (please specify methodology used):	site specific topographic survey
			lf Po	oled analysis have	If Pooled analysis have group details been included	oN be
Hydraulics						
Hydraulic modelling method		n/a		Software used:	Other	
If other please specify						
Modelled reach length		110	m			
Any structures within the modelled length?		Bridges	Spec	Specify, if combination		
Brief summary of sensitivity tests, and range:						
variation on flow (%)		n/a	%			
variation on channel roughness		n/a				
blockage of structure (range of % blocked)		100	% Refe	rence CIRIA culver	Reference CIRIA culvert design guide R168, section 8.4	on 8.4
boundary conditions:		Upstream			Downstream	
(1) type		Flow			Normal depth	
	Specify if other			Specify if other		
(2) does it influence water levels at the site?		No			No	
Has model been calibrated (gauge data / flood records)?		No				
is the hydraulic model available to SEPA?		No				
Design flood levels	200 year	refer to report m AOD	m AOD	200 year plus	200 year plus climate change	73 m AOD

506

\* ReFH2 is now accepted by SEPA for flow estimates in Scotland. Any use of this method should be compared with other accepted methods.

SEPA Flood Risk Assessment	essment	(FRA) Checklist	ecklist	. N.S. N. F.R F.001	Version 13 - I	SS-NFR-F-001 - Version 13 - Last undated 15/04/2015	
Coastal							
Estimate of 200 year design flood level		n/a	m AOD				
Estimation method(s) used		Other	If other (please spec	If other (please specify methodology used):	n/a		
Allowance for climate change (m)		n/a	ш				
Allowance for wave action etc (m)		n/a	E				
Overall design flood level		n/a	m AOD				
Development							
Is any of the site within the functional floodplain? (refer to						,	
SPP para 255)		°N	If yes,	If yes, what is the net loss of storage		m³	
Is the site brownfield or greenfield		Brownfield					
Freeboard on design water level (m)		9.0	ш				
Is the development for essential civil infrastructure or			If yes, ha	If yes, has consideration been given to			
vulnerable groups?		No		1000 year design flood?	No		
Is safe / dry access and egress available?		Vehicular and Pedestrian		Min access/egress level	7360	m AOD	
If there is no dry access, what return period is dry access							
available?			years	•			
	Max Flood Depth						
If there is no dry access, what is the impact on the access	@ 200 year						
routes?	event:	n/a	ш	Max Flood Velocity:	n/a	m/s	
Design levels	Ground level	73	m AOD	Min FFL:	73.6	mAOD	
Mitigation							
Can development be designed to avoid all areas at risk of							
flooding?		Yes					
Is mitigation proposed?		No					
If yes, is compenstory storage necessary?		No					
Demonstration of compensatory storage on a "like for like"							
basis?		No					
Should water resistant materials and forms of construction							
be used?		No					
Comments							
Any additional comments:		Detailed analysis or	f watercourses not unertak	en for this small scale developr	ment. An assu	Detailed analysis of watercourses not unertaken for this small scale development. An assumption has been made of a total	
		blockage of bridge	to SE of site. Should this h	blockage of bridge to SE of site. Should this happen flooding would occur up to a level of 73.00m. At this point it would	to a level of 7	3.00m. At this point it would	
	5	discharge overland	to the south end of the brid	discharge overland to the south end of the bridge and back into the watercourse. FFL of proposal shall be 73.60m	ırse. FFL of pr	oposal shall be 73.60m	
Approved by: Organisation:	Approved by: Grant Simpson Organisation: Arum Resources Ltd Date:	Ltd				ö	05/04/2018
Note: Further details and guidance is provided in 'Technical Flood Risk Guidance for	Flood Risk Guidand		Stakeholders' which can be accesssed here:-	here:- CLICK HERE			

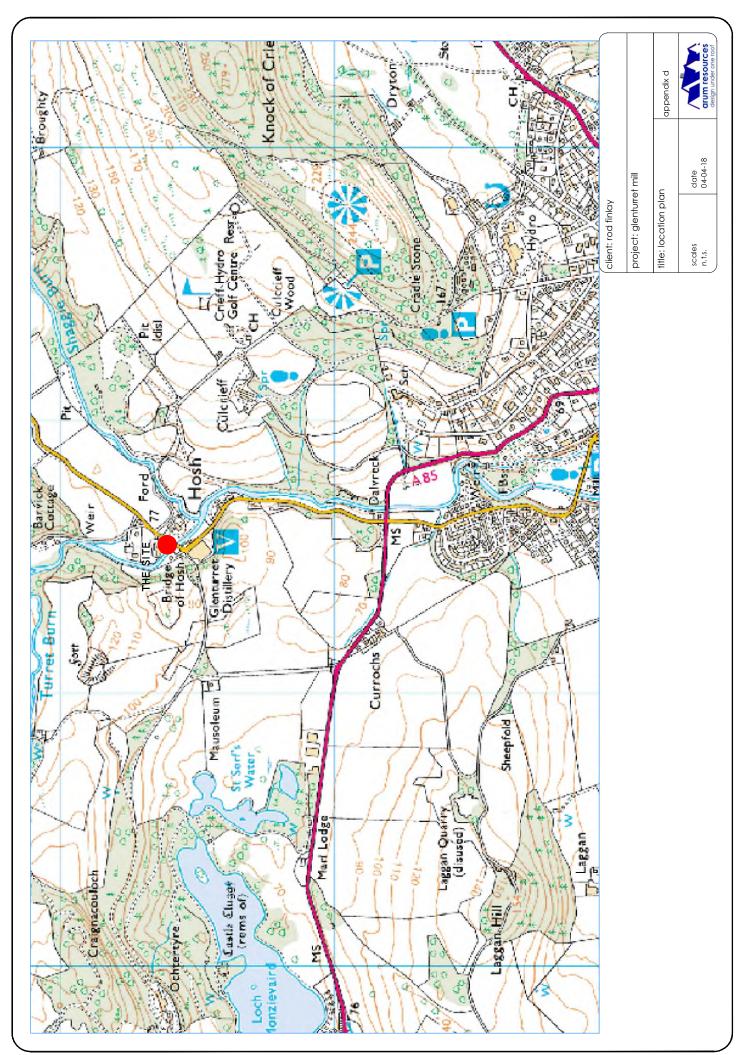
## **APPENDIX B**



## **APPENDIX C**



### **APPENDIX D**



### Klargester Product Guide

The Klargester range of fully integrated wastewater management, surface water and rainwater harvesting solutions















# About Kingspan

# **Frusted Water Management Solutions**

for the leisure, public, hospitality, transpor and domestic sectors whilst offering one if the largest and most technological

# Expert Technical Support

enquiries. We are dedicated to our customers and nere to help you with technical, sales and delivery Kingspan's support doesn't stop once you have purchased the product. Our expert team are pride ourselves on top class customer service.

We stand by the quality and performance





of Kingspan water management solutions and our support doesn't stop once your tank is installed. complemented by engineering expertise and advice as well as service throughout We use the latest design technology to produce drawings of extremely high the very best experience and results. It Our world class design consultancy is your commercial or industrial water quality. Our project management management project.

calculations, manufacturing, installation product selection and system design to process is a step-by-step one, to ensure covers everything from system sizing, and delivery. Our advice also spans water management code compliance and site work installation specification, design, product application and integration with building regulations, practices to meet the most demanding effluent qualities, flow rates and discharge consents.

expert advice and information on any of Contact our technical team today for our water management solutions.

Email: water@kingspan.com

Global Reach

### Installations Regional

Klargester Product Range dedicated external Area nationwide network of Manufactured in the JK and Ireland, the is supported by our Sales Managers.

specific requirements and provide a detailed written report and specification to recommend the best water management We offer free site visits to discuss project solution for your project.

assistance when required and help you with formal discussions with Building Control, Local Planning departments, The Environment Agency/SEPA, We also provide on-site installation architects and consultants. To arrange your free site survey contact us now on **01296 633033** or email water@kingspan.com

our case studies for the Klargester Product Range. tions. Take a look management system installaat a selection of vorldwide, with million water currently over 85 countries

**Sent**, England **Thanet Earth** 

and crude sewage pump stations, grease trap and BioFicient commercial system. Surface water separators, foul, effluent



Everton FC (Training Ground)

-iverpool, England



The Castlefields Inn Clifford, England

BioDisc Commercial sewage treatment plant providing an efficient water management solution.



water drainage.



Co. Fermanagh, N. Ireland

optimum performance and extremely low Grease separator and BioDisc sewage treatment plant work together giving running costs.

water management for a complex green Four vertical pumping stations to aid nouse development. Manchester City FC

water drainage system.

Manchester, England

Oil separators for its all-important surface



Barn Conversion Wing, England

Domestic BioDisc sewage treatment plant, ensuring a safe, odour-free environment.



London

Kettering

Liverpool

Co. Fermanagh

Co. Louth

Clifford

Kent

Social Housing Installation Co. Louth, Ireland Rainwater harvesting solution used to flush the WCs in each home. The main plumbing, easing demand on system is fully integrated with the the mains supply.



Elite Office Furniture Goole, England

including fuel/oil separators for a complete Modular BioFicient commercial system waste water management solution.



Primark Distribution Centre Kettering, England

Modular BioFicient commercial system for multi-million pound distribution centre.



Supermarket Carpark London, England

assist in decontamination of surface Bypass separator, NSBE50, to

A complex sewage treatment and surface pumping solution to meet the varying

Dundee, Scotland

needs of multiple housing.



Marble Arch Caves

### Klargester BioDisc® Domestic Sewage

**Treatment Plant** 

proof cover-safe for children and pets. Low level visibility with a lockable child-Utilises Rotating Biological Contactor Delivers better than 95% pollution when purchased with a service and . 10 year warranty options available maintenance plan. Low running costs. **Product Benefits** technology removal. standards and offers one costs compared to other The Klargester Domestic BioDisc® is engineered to the highest level of of the lowest lifetime treatment processes. to treat wastewater

which aerobic micro-organisms, naturally Natural breakdown of sewage can then

found in sewage, become established.

occur as described below.

The RBC is central to the operation of each Klargester BioDisc  $^{\text{@}}$  . It supports a biologically active film or biomass onto

The Rotational Biological Contactor



**OD**e Klargester Domestic BioDisc<sup>®</sup> BA-BC range is suitable for a range of applications including:







Light Industrial Premises

Supplied with a control panel and alarm.

The most stable process in the market.

Totally silent in operation. Managed Flow System.

Controls the discharge volume.

Control Panel



imall Offices

# First Stage Biological Treatment

The liquor and fine solids then flow into the Biological Treatment Zone I where the first stage of treatment occurs.

Wastewater and sewage flows into the primary settlement tank

Primary Settlement Tank

where the large solids are retained for future removal.

The liquor is then fed forward at a controlled rate into Biological Treatment Zone 2 for further cleaning. Second Stage Biological Treatment

**Technical Specifications** 

,	99	2	Performance
	ZL	18	and Complia
1	0.72	1.08	1000
	2.4	3.6	Serunea to
5	566IØ	Ø2450	Standard BS
	-		12566 Part 3

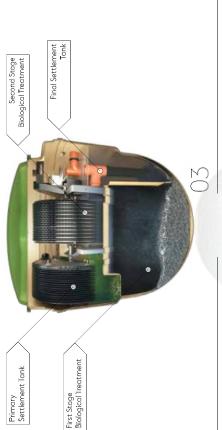
Model Reference	BA	BA-X	BB	BC
Population Equivalent (Std Flow)	9	6	12	18
Maximum Daily BOD (kg)	0.36	0.54	0.72	1.08
Maximum Daily Flow (m3)	1.2	1.8	2.4	3.6
Ø/Width (mm)	Ø1995	Ø1995	Ø1995	Ø2450
Length (mm)	-	-	ı	
Inlet Invert depth (mm)	450/750/1250	450/750/1250	450/750/1250	600/1100
Depth Below Inlet Invert (mm)	1400	1400	1400	1820
Outlet Invert Depth (mm)	1315	1315	1315	1735
Overall Height (mm)	2160/2460/2960	2160/2460/2960	2160/2460/2960	2825/3325
Height to Rim of Cover (mm)	1945/2245/2745	1945/2245/2745	1945/2245/2745	2485/2985
Empty Weight (kg)	310/325/380	310/325/380	335/350/405	650/750
Standard Power Supply	1 phase	1 phase	1 phase	1 phase
Motor Rating - 1 Phase (Watts)	90	20	920	75
Full Load Current 1 Phase (amps)	0.51	0.51	0.51	1.1
Optional Power Supply	N/A	N/A	N/A	3 phase
Motor Rating - 3 Phase (Watts)	N/A	N/A	N/A	06
Full Load Current 3 Phase (amps)	N/A	N/A	N/A	0.38
Sludge Return Pump Rating (watts)	250	250	250	250

achieve 10mg/l BOD, 15mg/l SS and 3.8mg/l ammonia.

certified to

> Fully marked in line with the CPR 2013.

Pumped Outlet Available on BA, BA-X, BB models.



Final Settlement Tank

The clean liquid passes into the final settlement tank where it can be discharged to ground or water course.

1 ^

# Klargester BioFicient®

Domestic Sewage **Treatment Plant** 



Less the latest treatment Chnology to deliver manufactured from high **G**uality materials and a high level of water discharge quality.

people, the BioFicient is



Industry leading NH4 (ammonia) removal. BS EN 12566 Part Fully **C €** marked in line with the CPR 2013. Performance and Compliance 3 tested and approved.

**Product Benefits** · Shallow Dig.



Control Panel



Final Settlement Tank

BioZone

### Primary Chamber

Light Industrial

Small Offices

Farms

Barn Conversions

Single & Multiple Homes

1-6 range is suitable for use across the The Klargester Domestic BioFicient®

Applications

following applications:

Raw sewage gravitates to the unit where it is received in the primary settlement zone. Here, gross solids and other social debris settle to the bottom of the tank where they remain until the tank requires desludging. Settled sewage is displaced from primary zone and enters the first of two sequential moving aerated media reactors.

## Technical Specifications

\_\_\_

Model Reference	BioFicient 1	BioFicient 2	BioFicient 2+	BioFicient 3	BioFicient 4	BioFicient 5	BioFicient 6
Population Equivalent	9	8	10	10	15	93	30
Overall Diameter (mm)	1,540	1,420	2,010	1,420	1,920	1,920	1,920
Length (mm)	2,500	3,760	3,189	3,760	3,230	4,390	6,220
Depth (mm)	1,794-2,104	1,830/2,330/ 2,830	2,785	1,830/2,330/ 2830	2,300/2,800/	2,300/2,800/	2,300/2,800/ 3,300
Inlet Invert (mm)*	500-810/ 500-810*	500/1,000/	700-1,500	500/1,000/	500/1,000/	500/1,000/	5,00/1,000/
Outlet Invert (mm)	600-910/ 555-865*	600/1,100/ 1,600*	800-1600	600/1,100/ 1,600*	630/1,130/ 1,630*	630/1,130/ 1,630	630/1,130/ 1,630
Material	MDPE	GRP	MDPE	GRP	GRP	GRP	GRP
Blower Ratings	50W	75W	W56	75W	W56	115W	225W
Cover sizes	700	1,500/900	700	1,500/900	1,500/900+600**	1,500/900+600**	1,500/900+

Note: Optional inlet depth down to 1800mm "BioFicient IPS models only (Outlet Depth 320mm) | \*\*BioFicient 4, 5, 6 has two shafts.

Primary Settlement Tank

### Final Settlement Tank

Biozone 1 & 2

Where fine solids are settled out. The Final chamber. With regulatory approval, it is suitable for discharge to a watercourse or effluent is discharged via either gravity outlet or IPS (Integral Pump System) drainage field.

into each compartment. The liquor is constantly re-circulated and micro organisms growing on the surface of the media and within contacts the moving media and as it does so, it is purified by the the use of a compressor and diffuser, which introduces fresh air Media and liquid circulation in the Biozone is achieved through Solids are broken down by air agitated media in the Biozone.

the moving liquor. Excess growth of biomass is shed as solid

particles into the liquor.

### Domestic Sewage Klargester BioTec® **Treatment Plant**

### aerobic biological trickling system is ideal for single/ employs the well proven The Klargester BioTec® multiple houses and sewage treatment



Easy to Instal

### **Product Benefits**

- components within the plant-low running and maintenance costs. · No mechanical or electrical
  - Low level visibility with a lockable child-proof duty cover safe for children and pets.
    - Easy to install and maintain with annual desludging.

treatment of sewage.

filter process for the

Phe Klargester Domestic BioTec® Range is suitable for a range of Oplications, including:

Applications

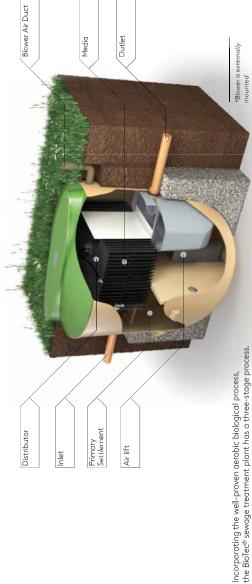
### Certified to BS EN 12566 Part 3. performance of 20mg/l BOD, 30mg/l S.S., 20mg/l Ammonia. Assured

# Fully **C €** marked in line with the CPR 2013.

### Technical Specifications

Model Reference	BioTec®1	BioTec®1 IPS	BioTec <sup>®</sup> 2	BioTec® 2 IPS	BioTec® 3	BioTec® 3 IPS	BioTec® 4	BioTec® 4 IPS
Population Equivalent	9	9	12	12	18	18	25	25
Outside Diameter (m)	1.9	1.9	1.9	1.9	2.7	2.7	2.7	2.7
BOD Load (kg/day)	0.36	0.36	0.72	0.72	171	ľ1	1.5	1.5
Weight Empty (kg)	195	220	217	260	445	1/4	0/4	495
Depth (m)	2.2	2.2	2.7	2.7	5.6	2.6	5.6	2.6
Inlet Invert (m)	1.0*	1.0*	1.0*	1.0*	*01	¥0′1	*01	*01
Inlet Invert to Base (m)	1.2	1.2	1.7	1.7	1.6	1.6	1.6	1.6
Outlet Invert (m)	1.1	909'0	1.1	909'0	Ľ1	909'0	171	959'0
Motor Rating (watts)	09	99	09	09	150	150	150	150

\* There are two depths of inlet in the range 1.0m and 1.5m. IPS - Integral Pump System



Ensight Industrial Premises

Small Offices

Farms

8 Barn Conversions

Single & Multiple Homes 

distributed over a plastic suspended filter by an integral lift, powered by a remotely The resulting liquid is continuously sited blower.

Coarse solids are filtered and retained for

gradual breakdown.

The solids are allowed to settle and under normal domestic conditions, effluent of 20mg/I BOD, 30mg/I S.S., 20mg/I Ammonia can be achieved.

1 =

ΙP

## Water Management Solutions

### Reed Beds Klargester



### **Product Benefits**

. Tertiary treatment for new applications with tight discharge consents.

filtration process used

A reed bed is a

- Satisfies new building regulations.
  - Improved effluent quality for
    - existing works.

treatment system to further enhance the

a Klargester sewage in conjunction with

- Very low maintenance.
- Aesthetically pleasing and environmentally friendly.
- · Easy to install and maintain.

migrating into a drainage quality of the effluent

• Effluent discharge is typically improved by at least 50% providing reduced BOD and suspended solids.

## Correct Solution Selecting the

tank that discharges directly to a surface If you have a septic water you will need Did you know?

Water have developed the system selection process below, to help in guiding you through the process to choose the correct system to meet your requirements.

treatment and disposal

the correct sewage

o ensure selection of

method to meet your

requirements, expert

Environmental Regulators and British

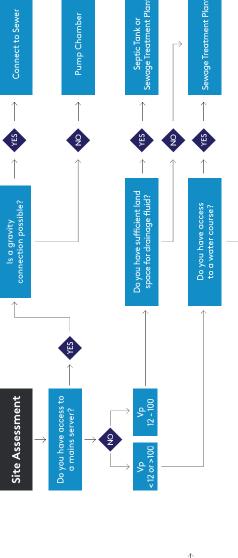
Environment Agency — General Binding Rules your treatment system by 1 January 2020, or when you sell your property if before this date. to replace or upgrade

be considered as the first

option.

n all instances a sewage advice should be sought.

treatment plant should



Outlet from treatment plant 800 Outlet from treatment plant How it works

## Technical Specifications

Model Reference	Population Equivalent	Length (mm)	Width (mm)	Depth (mm)	No. Required	Outlet Size (mm)
HRB006	9	2500	800	800	2	110
HRB012	12	2500	008	800	4	110

# Water Management Solutions

### Alpha Septic Klargester

Klargester Alpha tanks homes not connected economic solution for provide a reliable and to mains drainage.

Basic septic tanks only retain solids and discharge effluent of low quality. The installation will not contaminate any However, many authorities in the UK sewage treatment system should be ditch, stream or other watercourse. prohibit their use. In all instances a considered as a first option.

Septic tanks may be installed, subject to consent, in applications where:

- Soil is of suitable porosity.
- The installation will not contaminate any

### **Product Benefits**

- Made from composite GRP strong, light, and watertight.
- squat, form which makes the tank easy to Press moulded shape provides wide, install and handle.
- Stable base for storage.
- Lifting eyes are provided for lifting and positioning within the excavation.

### Gamma Septic Klargester

reducing installation time and costs. efficiency rating of 99.97% an industry benchmark. The Klargester Gamma solution for domestic tank is an affordable applications with an

Manufactured from tough polyethylene, the tank is robust and lightweight which makes it easy to handle and install. Due to its design features, the Gamma tank is the perfect solution where a shallow dig installation is required,

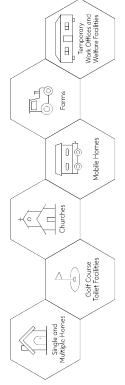
### **Product Benefits**

- resistant, high quality polyethylene. Manufactured from robust, impact
- Strong, easy to move and simple to install.
  - Less excavation costs, less soil disposal and less backfill material.
- Wide neck for easy access for annual
- Trimmable neck to suit site.

### , BS EN 12566 Part 1 approved. , Fully **CE** marked in line with the CPR 2013. Performance & Compliance ciency rating. , 99.97% effi-

### Applications

tank ranges, each comprise three sizes and are typically suitable for applications not connected to mains drainage including: The Klargester Alpha and Gamma septic



# Technical Specifications

Standard Outlet Invert (mm)

Standard Inlet Invert (mm)

Height (mm)

Overall Diameter (mm)

No. People (150 Ltrs/head/day)

Volume (L)

Model Reference

STS02810 STS03810 STS04610

Technical Specifications

1050/1550

1050/1550

1000/1500

2984/3484

1050/1550

1000/1500 1000/1500

2599/3099 2810/3310

2075 2075 2084

12

3800 2800

4600

Model Reference	Volume (L)	No. People (150 Ltrs/head/day)	Width (mm)	Length (mm)	Height (mm)	Standard Inlet Invert (mm)	Standard Outlet Invert (mm)	
GST028	2800	5	1130	2480	1755 - 2255	550-1050	550-1050	
GST035	3500	10	1180	3000	1755 - 2255	550-1050	550-1050	
GST040	4000	13	1215	3360	1755 - 2255	550-1050	550-1050	

Depth (mm)

2255

2255

2255

& Compliance tested to BS EN 12566 Part 1 Performance Performance

septic tank that discharges

If you have a

directly to a sur-

ace water you will need to re-

Did you know?

place or upgrade your treatment

requirements.

· Fully CE

- Installation complies with Building Regulations (Approved Document H).
- ditch, stream or other watercourse.

Agency — General Binding

Environment

or when you sell your property if before this date.

January 2020,

marked in line with the CPR 2013.

system by 1

### Klargester Sigma Septic Tank



### **Product Benefits**

- · Made from GRP strong and durable for
- Robust and simple to install, reducing on site installation time.
- Less excavation costs, less soil disposal and less backfill material required.
  - Light, watertight and chemically resistant.
- Robust, weather proof for guaranteed
- durability, giving you value for money.

### Klargester Below Ground Water Storage Tanks and Cesspools



The range of Klargester



### **Product Benefits**

- · Easy to install with minimal on site installation time.
- Designed in accordance with BS6297, ensuring that you meet all building regulations.

solution for the collection

tanks provide a reliable

pelow ground storage

Performance and Compliance

Certified to BS EN 12566 Part 1

and retention of sewage

>Fully **C** € marked in line with the CPR 2013.

water, veterinary / animal

waste, firefighting

(cesspool), surface

eservoirs and rainwater

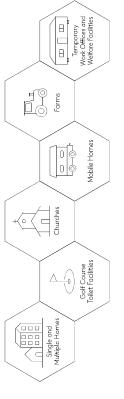
narvesting reservoirs.

- · High level alarm available for complete peace of mind.
- Lockable manhole cover for ultimate security.

### Applications

523

Klargester Sigma septic tanks and below ground water storage tanks and cesspools, connected to mains drainage including: offer a solution for applications not



### Technical Specifications

Standard Outlet | Depth (mm)

Standard Inlet Invert (mm) 200 200 200 200 200

Length (mm)

No. People Overall (150 Ltrs/head/day) Diameter (mm)

Volume (L)

Model Reference

2800 3800 5700 7150 9150

STH028

STH038 STH057 STH071

2955 3895

1225 1225 1425 1920 1920

> 7 54 ¥ 4

1627/1587\*

530 530 530 550 550

1826/1786\* 1617/1577\*

4275

3225

2290 2290

Diameter (mm)	2620	5620	2620	2620	3620	2620	2620	5620	2620	0070
Length (mm)	4317	5073	5837	7376	9684	11,222	11,991	12,760	14,295	15 077
Capacity (Gallons)	3960	4889	5720	7480	10,120	11,880	12,968	13,860	15,620	17.700
Nominal Litres	18,000	22,000	26,000	34,000	46,000	54,000	59,000	63,000	71,000	00000

\*110mm diameter pipework/ 160mm diameter pipework

Technical Specifications

STH091

# Klargester BioDisc®

# Commercial Sewage **Treatment Plant**

Klargester BioDisc® RBC costs due to its unique design and operational packaged system, the Delivered as a single, range (up to 300PE), offers low running efficiencies.

### **Product Benefits**

- Unique RBC technology.
- robust and efficient water management Tried and tested technology, offers treatment.
  - Low running costs.
- Noise free.
- · Fully removable lid for easy desludging.
- · Fully packaged system, delivered direct on site.
- Bespoke technical support offered from
- our in-house technical teams.

524

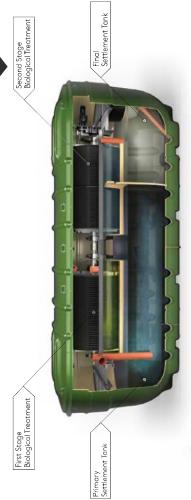
# Performance & Compliance

# approved in accordance with BSEN13725.

Designed for applications selected in compliance with British Water Code of Practice

Flows and Loads.

industry requirements across commercial sectors, including national and international regulations such as BS EN12255 and EN12566-3 (up



# Primary Settlement Tank

retention of coarse solids present in raw sewage and wastewater for subsequent gradual breakdown. BioDisc® features one chamber to This is the initial stage of treatment and simply involves the ensure efficient operation with a flow balancing facility.

# First Stage Biological Treatment

The liquor and fine solids then flow into the first stage of Biological Treatment. A unique managed flow system ensures peak performance by smoothing variable loads.



## Technical Specifications

Model Reference	BD	띪	늄	BG	HB	a	Æ	뮵	M	Z Z
Maximum Daily BOD (kg)	1.5	2.1	2	4.2	4.5	9	7.5	6	13.5	18
Maximum Daily Flow (m3)	22	7	10	14	15	20	25	30	45	99
Ø/Width (mm)	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450
Length (mm)	3340	3340	4345	5235	7755	7755	7755	7755	10420	13100
Inlet Invert depth (mm)	600/1100	600/1100	600/1100	600/1100	0001/009	600/1000	600/1000	0001/009	0001/009	0001/009
Depth Below Inlet Invert (mm)	1820	1820	1820	1820	1790	1790	1790	1790	1790	1790
Outlet Invert Depth (mm)	1735	1735	1720	1720	1640	1640	1640	1640	1640	1640
Overall Height (mm)	2825/3325	2825/3325	2825/3325	2825/3325	2830/3230	2830/3230	2830/3230	2830/3230	2830/3230	2830/3230
Height to Rim of Cover (mm)	2485/2985	2485/2985	2485/2985	2485/2985	2490/2890	2490/2890	2490/2890	2490/2890	2490/2890	2490/2890
Empty Weight (kg)	1100/1200	1200/1300	1315/1465	1660/1810	3000/3020	3100/3120	3200/3220	3300/3320	4200/4250	5500/5650
Standard Power Supply	1 phase									
Motor Rating - 1 Phase (Watts)	75	K	120	180	250	250	370	370	550	2×370
Full Load Current 1 Phase (amps)	1.1	1.1	1.3	1.6	1.5	1.5	2.35	2.35	2.8	2×2.35
Optional Power Supply	3 phase									
Motor Rating - 3 Phase (Watts)	8	8	120	180	250	250	370	370	550	2×370
Full Load Current 3 Phase (amps)	0.38	0.38	0.42	0.63	0.88	0.88	1.35	1.35	2.8	2 x 1.35
Sludge Return Pump Rating (watts)	250	250	250	250	250	250	250	250	250	250





Final Settlement Tank

Second Stage Biological Treatment The liquor is then fed forward at a

to the final settlement where they settle out as a humus sludge, leaving a clear treated effluent to be discharged to ground or water course. The settled humus sludge The surplus micro-organisms continuously slough off the discs and are carried forward is returned to the Primary Settlement Tank by the sludge return pump under timer control. The sludge return pump also removes any floating scum which helps to keep the final settlement tank working efficiently. ensures the whole media area available is controlled rate into Biological Treatment stage 2 for further cleaning. This process

utilised ensuring maximum efficiency.



### Modular RBC Commercial Sewage Treatment Plant Klargester BioDisc<sup>®</sup>

applications with higher populations, with each BioDisc® modular RBC system is designed for The larger Klargester unit supplied as a 250PE unit.



Total flexibility with a

unique modular RBC system



The Klargester modular RBC system is designed for applications with nigher populations.

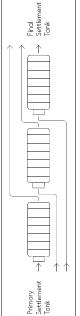
flexible system for an expanding or phased The RBC comprises of a complete modular with primary and final settlement tanks. increased in numbers or size to make a system containing the RBC units along Both RBC units and tanks can be population growth.

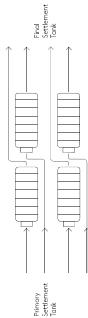
and further units supplied depending on Each unit is supplied as a 250PE unit oopulation requirements.

or additional tanks can be supplied in the be sized for the intended end population Primary and final settlement tanks can future and fed into the system.

Each of the units can be linked to create a complete sewage treatment system. The feed to each RBC can be controlled independently to give further flexibility.

size of primary and final settlement tanks will vary with each customer application : 2.2 metres wide x 2.4 metres high. The The RBC unit measures 6.7 metres long and site location. Final Settlement Tank Settlement Tank





# Modular RBC

Flexible modular layouts available prises a complete modular system, supplied as 250PE unique design is containerised for nodules. Their The RBC com-

Process

Strapping Options Rotor Support Bearings Flow Management Sectional Media Modules





maintenance. It is not necessary The rotor assembly is supported lubricating grease cartridges to These are equipped with self provide continual lubrication. by a pillow block bearing at each end of the rotor shaft. to remove the larger main be accessed by removing Both of the bearings can the individual covers for

sections to make a two metre

The Biozone media within the system, is built up in 'wedge' Klargester BioDisc® modular

The unique flow management

process of the Klargester Commercial BioDisc® allows forward feed rate. Rotating

for complete flexibility of

Flow Management Process

# Strapping/Lifting Options

rame and lifting shackles are Alternatively, the unit can be brackets are attached to the truck. Forklift tubes are built lifted with slings. Four lifting be lifted at either end with into the steel construction the aid of extension forks. frame. The unit can also provided with each unit.

# Technical Specifications

RBC250         50,000         15         6,700         2,210         2,400         5,000         1,11kw/40	Model Reference	Jaily Flow (I/day)	Daily Load (kg/BOD/day)	Length(mm)	Width(mm)	Height(mm)	Weight(kg)	Motor Power
	RBC250	20,000	51.	002'9	2,210	2,400	2,000	1.1 Kw/400v

Max daily flow based on 200 L/Person/Day, system PE will vary by site flow rate per person.

# Sectional Media Modules



### Rotor Support Bearings

easier maintenance. covers, allowing for

> removed from the rotor for maintenance or inspection without compromising the

A complete wedge can be

diameter rotor assembly.

ensures the rotor assembly can stay in place, without the need

allow the buckets to run at a

different speed to the rotor.

are independently driven and

BioZones, allowing for total forward feed control. These

buckets transfer untreated water through each of the for removal.

overall rotor structure. This



# Klargester BioFicient®

Commercial Sewage **Treatment Plant** 



# **Product Benefits** The Klargester BioFicient

- requirements including 'Total Nitrogen'. Adaptable to specific consent
  - Low head loss.
- · Minimal footprint area and visual

designed with efficiency

commercial sewage

treatment plant is

impact.

- . Variable invert options (0.5 2.0 m).
  - May be installed in trafficked areas (subject to loading).
    - Low maintenance.

and tested technology to

ensure consistently high

effluent quality.

performance using tried in mind. It offers reliable

Alarm protected.

### Compliant with EN-12255 and EN12566-3 (up to 50 PE). be sized to suit local Designed and sized in accordance with British Water Code and Loads but can Performance and Compliance of Practice Flows site conditions.

### Technical Specifications

Model Reference	17H	23H	34H	38H	42H	47H	55H	H/9	80H
A Overall Length (m)	7.4	6.3	7.4	8.1	6'8	6.7	11.2	13.5	15.8
B Overall Width (m)	1.9	1.9	1.9	1.9	1.9	2.8	2.8	2.8	2.8
C Height (m)									
560mm Inlet / 860mm Outlet Invert*	2.28	2.28	3.02	3.02	3.02	3.02	3.02	3.02	3.02
1060mm Inlet / 1360mm Outlet Invert*	2.78	2.78	3.52	3.52	3.52	3.52	3.52	3.52	3.52
1560mm Inlet / 1860mm Outlet Invert*	3.28	3.28	4.02	4.02	4.02	4.02	4.02	4.02	4.02
2060mm Inlet / 2360mm Outlet Invert*	3.78	3.78	4.52	4.52	4.52	4.52	4.52	4.52	4.52
D Diameter (m)	1.8	1.8	1.8	1.8	1.8	2.6	2.6	2.6	2.6
Volume (m3)	4	23	34	38	747	47	95	19	88
Weight Approx (kg)	1200	1450	3000	3200	3400	3800	4200	4700	5400
Inlet / Outlet Diameter (mm)	160	160	091	160	091	160	160	160	160
Maximum Flow (m3/day) Models	8	H	51	02	52	30	04	920	09
Retention Time (hrs)	9/2	99	15	43	62	325	15	31	30

Final Settlement <sup>I</sup> Tank

Biozone 2

# **Gp**plications: De BioFicient range is suitable for a range papplications including:

Hospitality Leisure Public sector Transport

Primary Settlement Chamber

2.6 diameter BioFicient is also available as an ternative model

Campsites

Multi-housing

developments

Biozone 1

The liquor enters the first stage of Biological treatment where the active bacteria within the fluidized bed begin to break down organic solids, majority of BOD removal occurs here.

features two chambers to ensure efficient operation with a flow

balancing facility.

the retention of coarse solids present in raw sewage and wastewater for subsequent gradual breakdown. BioFicient

This is the initial stage of treatment and simply involves

Primary Settlement Chamber

Biozone 1

fluidized bed continues to clean the liquor giving further BOD Within the second stage of Biological treatment the second reduction along with removal of nitrogen.

Biozone 2

### Final Settlement Tank

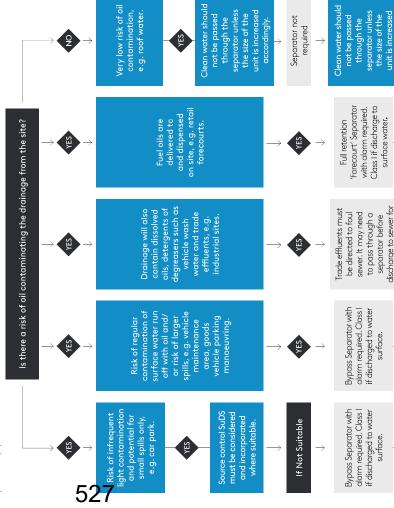
and this is separated for further treatment. The treated effluent A natural by-product of biological treatment is humus sludge is discharged via the outlet or to disinfection stage.

### Right Separator Choosing the

selecting the appropriate Kingspan has a specialist team who provide expert Klargester Separator for technical assistance in vour application.

selection of the appropriate type of fuel/ oil separator for use in surface water drainage systems which discharge into The chart below gives guidance to aid rivers and soakaways.





Full retention separators are used in high risk

Our full retention separators treat the whole Coalescer (Class 1 units only) · Automatic closure device Oil separation capacity . Silt storage capacity · Oil storage volume of the specified flow. fuel distribution depots, spillage areas such as vehicle workshops and scrap metal ecycling yards.

Full Retention

Klargester

Separators

**NSF RANGE** 

0

(((

Full Alarm Range Available

Each full retention separator design includes the necessary volume requirements for:

### of the first UK manthe required range certified to EN 858-1 Kingspan were one ufacturers to have Performance and Compliance in the UK.

>The NSF number denotes the flow at which the separator operates.

Approved by The British Standards Institute (BSI) in relation to Jow and process performance, meeting effluent quality (Equirements of EN 858-1.

# Technical Specifications

Model	Flow	Drainage Area	Storage Capacity (Ltrs)	Storage Sacity (Ltrs)	Length	Diameter	Manhole Cover	Base Inlet	Base to Outlet	Min Inlet	Standard Pipework
Reference	(1/s)	(0.018)	Silt	Ö	(mm)	(mm)	Dimensions (mm)	Invert (mm)	Invert (mm)	Invert (mm)	Diameter (mm)
Polyethylene Chamber Construction	amber Cc	onstruction									
NSFP003	2	170	300	30	1700	1350	009	1410	1335	550	160
NSFP006	9	335	009	09	1700	1350	009	1410	1335	250	160
GRP Chamber Construction	onstructi	uo									
NSFA010	Q	555	1000	100	2610	1225	009	1050	1000	200	200
NSFA015	72	835	1500	150	3910	1225	009	1050	1000	1000	200
NSFA020	8	1115	2000	200	3200	2010	009	1810	09/1	1000	315
NSFA030	8	1670	3000	300	3915	2010	009	1810	1760	1000	315
NSFA040	8	2225	4000	400	4640	2010	009	1810	09/1	1000	315
NSFA050	S	2780	2000	200	5425	2010	009	1810	09/1	1000	315
NSFA065	99	3160	9200	059	6850	2010	009	1810	1760	1000	315
NSFA080	8	4445	8000	800	5744	0282	009	2500	2450	1000	315
NSFA100	100	2560	10000	1000	9700	0282	009	2500	2450	1000	400
NSFA125	125	6945	12500	1250	7365	2820	009	2500	2450	1000	450
NSFA150	150	8335	15000	1500	8675	2820	009	2500	2450	1000	525
NSFA175	175	9725	17500	1750	9975	2820	9009	2500	2450	1000	525
NSFA200	200	11110	20000	2000	11.280	0282	009	2500	2450	1000	909

\* Some units have more than one access shaft - diameter of largest shown.

Source control SuDS should be considered

The use of SuDS should be considered at all times and they should be incorporated where suitable. SuDS can be used to polish the effluent from these separators before it enters the environment.

accordingly

'Forecourt' Separator with alarm required. Class I if discharge to

sewer. It may need to pass through a

Bypass Separator with alarm required. Class I if discharged to water surface.

Bypass Separator with alarm required. Class I if discharged to water surface.

separator before

surface water.

discharge to sewer for removal of free oils.

### Separators Klargester Bypass

**NSB RANGE** 

used when it is considered an acceptable risk to not provide full treatment for Bypass separators are as, where the risk of a very high flows, such

**R**arparks, roadways and **R**ahtly contaminated the same time is small. ypical applications commercial areas. **G**olude surface

Klargester



### **Product Benefits**

- Light and easy to install.
- Inclusive of silt storage volume.
- Fitted inlet/outlet connectors.
  - Vent points within necks.
- Oil alarm system available (required by EN 858-1 and PPG3).
- Extension access shafts for deep inverts.
  - Maintenance from ground level.

large spillage and heavy

rainfall occurring at

. GRP or polyethylene construction (subject to model).

# Performance & Compliance

- Certified flow and process effluent qualities to the
- concentration of less thar designed to achieve a

Fully compliant and tested to EN 858-1.

Bypass separators are tested by British standards institute (BSI).

oil to prevent their entry to the drainage system.

nydrocarbon pollutants such as petroleum and

Forecourt separators are used to intercept

> , The unit is designed to treat the 'first flush' - 10% of peak flow. The calculated drainage areas served by requirements of EN 858-1.

station forecourts and

car breaker yards.

ypical applications include petrol filling

- each separator are indicatec according to the formula given by PPG3 NSB = 0.0018A(m2).

### Separators **Forecourt**



# Performance and Compliance

- Operation ensures that the flow cannot exit the unit without first passing through the coalescer assembly.
- fuel delivery tanker compartment on the provide storage for separated pollutants pollutant arising from the spillage of a within the main chamber, but is also separator has sufficient capacity to able to contain up to 7,600 litres of In normal operation, the forecourt petrol forecourt.

- automatic closure device to ensure that oil cannot exit the separator in the event of a major spillage, subsequently the separator should be emptied immediately. The separator has been designed with an

### Installation

- must be designed to ensure that loads are trafficked area, then a suitable cover slab . If the separator is to be installed within a The unit should be installed on a suitable concrete base slab and surrounded with concrete or pea gravel backfill. not transmitted to the unit.
  - vented in accordance with Health and The separator should be installed and Safety Guidance Note HS(G)41 for filling stations
    - Subject to Local Authority requirements

### Technical Specifications

Empty Weight (kg)	620	620	
Standard Pipework Diameter (mm)	160	200	
Min Inlet Invert (mm)	009	009	
Standard Fall Across (mm)	8	8	
Base to Outlet Invert (mm)	2130	2130	
Base inlet Invert (mm)	2180	2180	
Access Shaft Diameter (mm)	009	009	
Diameter (mm)	2020	2020	
Length (mm)	3915	3915	
Peak Flow Rate (I/S)	15	20	
Drainage Area (m2)	720	115	
Total Capacity (Ltrs)	10000	10000	
Backfill Type	Concrete	Concrete	
Separator Class	-	-	

### Separator Alarms Fuel & Oil

Min Inlet Invert (mm)

Access Shaft Diameter (mm)

160

00 001

1320 1320 1320

1420 1420 1420

009

1700

45 8 8

Polyethylene Chamber Construction

30

Peak Flow Rate (1/s)

Technical Specifications

300 450 600

2500

4 8

NSBP004

NSBP006 NSBE010

009

1350 1350

1700

160

500 200

160

system. It should be installed and calibrated Guideline PPG3 requires that all separators it will respond to an alarm condition when Environment Agency Pollution Prevention by a suitably qualified technician so that British European Standard EN 858-1 and are to be fitted with an oil level alarm the separator requires emptying.

Easily fitted to existing tanks.

**Product Benefits** 

 Additional telemetry option. Excellent operational range.

Visual and audible alarm.



009

1000

150

2185 1680

1920

3960

750

5000 3000 4000

27778

500 1000

41667

100

NSBE100

5841

750

200

450

315 375

100 100 100 100 100 150 200 200

375

90/ 700 1000 950 950

1580 1580 2035 2035 2035 2035

1680

750 750 009 009 009 009

375 450 9009

13890

16670

20 23

NSBE025

NSBE020 NSBE030

NSBE015

NSBE040

NSBE050

NSBE075

1220 1220 1420 1420 1920 1920 1920

2947 3575 4265

5560

00 150 200 250 300 400 750

0

**GRP Chamber Construction** 

8335 11111





- 2035 \* Some units have more than one access shaft – diameter of largest shown | \*\* Larger pipework available on request. Achieves concentration of less than 5MG/L 009 9548 1875 1250

### Klargester Grease Separators



### **Key Standard Features**

- Greatly reduces drain blockages, for maximum operational efficiency.
- Helps improve performance of septic tanks and field drains and achieve best results.
- Prevents contamination of small sewage treatment plants, reducing risk of breakdown.

wastewater flow. Grease

method of separating effective and hygienic

Separators are an Klargester Grease

fat and grease from

Separators are designed

for restaurants, hotels,

public houses, canteens

and similar applications.

529

Protects mains drainage system from grease blockages.

### How it works

drainage flow and to suit the expected the wastewater reaching the drainage grease to naturally separate out from water, allowing their removal prior to close to the source of contamination before any foul waste can enter the Grease separators allow fats and liquid temperature.

# Klargester Washdown and Silt Units



### Applications

How it works

Clargester Washdown

used in areas such as and Silt units can be

car wash and other

wash down separators are: car wash, tool hire depots, truck cleansing, construction the removal of silt. Typical locations usinc wash down areas and car wash facilities, These units can be used to serve vehicle prime function of such separators is for although it should be noted that the compounds cleansing points.

> maximum of 6 minutes hydraulic retention time, at the flow rate given. The separator The nature of the silt varies depending on

water is then able to discharge safely.

cleaning facilities that discharge directly into

a foul drain, which

long enough to allow solids to sink to the As contaminated water passes through

the separation chamber, it is retained

bottom of the unit. Our design uses a

nighly silted sites where NS separators are used, i.e. works constructions sites and -ocations requiring silt separators are: temporary work compounds.

combining lightweight with outstanding strength. The units are delivered complete corrosion proof glass reinforced polyester with inlet and outlet pipework as well as Our Washdown and Silt Separators are factory fitted access shafts to ensure quick and easy installation on site. manufactured from durable, rot and

# Grease Range Sizing Table

	Meals Per Day	Standard Meal	Fast Food	Fine Cuisine
NSG02 NSG02 NSG02 NSG04 NSG04 NSG06 NSG14 NSG18 NSG18	40	NSG01	NSG01	NSG02
NSG02 NSG02 NSG04 NSG06 NSG09 NSG18 NSG18	09	NSG02	NSG02	NSG02
NSG02 NSG04 NSG06 NSG08 NSG18 NSG18 NSG18	80	NSG02	NSG02	NSG04
NSG04 NSG06 NSG09 NSG14 NSG18	100	NSG02	NSG04	NSG04
NSG06 NSG09 NSG18 NSG18 NSG24	200	NSG04	NSG06	NSG09
NSG09 NSG14 NSG18 NSG18 NSG24	300	NSG06	609SN	NSG14
NSG14 NSG18 NSG34	500	NSG09	NSG14	NSG18
NSG18 NSG24	700	NSG14	NSG18	NSG24
NSG24	006	NSG18	NSG24	I
	1,300	NSG24	1	I

# Technical Specifications

9	Dimensions (mm)	ns (mm)	i.			Approx Weight (Kg)	eight (Kg)	Fall Acr
Model Nererence	Length	Width	riow rates	snipping neignt (mm)	Capacity (L)	Empty	II.	The Unit (
NSG01	1320	750	1LPS	1100	200	20	220	72
NSG02	1620	1100	2LPS	1175	1000	8	1090	ST.
NSG04	2072	1224	4LPS	1570	2000	120	1860	22
NSG06	3018	1224	S4T9	1570	3000	160	2820	R
NSG09	3895	1224	SAT6	1570	4000	190	3760	2
NSG14	4418	1422	14LPS	1745	0009	215	5535	22
NSG18	3231	1917	18LPS	2120	8000	300	7162	R
NSG24	4386	1917	24LPS	2120	11000	380	9885	R

28

### must not be allowed to enter an NS unit. when selecting the size of the unit in relation to the flow being treated. feeds to a municipal reatment facility.

# If emulsifiers are present, the discharge

## Technical Specifications

Model Ref	Total Capacity (Ltrs)	Max.rec. Silt (Ltrs)	Max. Flow Rate (L/S)	Length (MM)	Diameter (MM)	Access Shaft Di- ameter (MM)	Base Inlet Invert (MM)	Base To Outlet Invert (MM)	Stan- dard Fall Across (MM)	Min Inlet Invert (MM)	Standard Pipework Diameter (MM)	Approx. Empty (Kg)
W1/010	1000	200	3	1123	1225	460	1150	1100	920	200	160	99
W1/020	2000	1000	2	2074	1225	460	1150	1100	25	200	160	120
W1/030	3000	1500	80	2952	1225	460	1150	1100	92	200	160	150
W1/040	4000	2000	F	3898	1225	460	1150	1100	92	200	160	180
W1/060	0009	3000	16	4530	1440	009	1360	1310	92	200	160	320
W1/080	8000	4000	ZZ	3200	2020	009	2005	1955	92	200	160	585
W1/100	10000	2000	72	3915	2020	009	2005	1955	50	200	160	089
W1/120	12000	0009	222	4640	2020	009	2005	1955	92	200	160	770
W1/150	15000	7500	14	5435	2075	009	1940	1890	25	200	160	596
W1/190	19000	9500	25	6865	2075	009	1940	1890	20	200	160	1200

# Water Management Solutions

# Klargester Compact Pumping Stations

compact pump stations can be used for effluent or sewage and are easy Our proven range of to install.

Quick to install and easy to maintain, Klargester pump stations are the ideal solution for outbuildings and extensions, celars, pool houses and external WCs. They can be used for effluent or sewage, depending on the pump, distance and height.



### **Product Benefits**

- compression coupling as standard. · Non-return valves and outlet pipe
- effluent high head and sewage vortex. 3 pump options; effluent low head,

with up to 13 people.

stations are ideal for nomes or properties

- Service and maintenance plans available to prolong the life of the pump systems.
  - Complete pre-fabricated solution ready
- Fully automatic.

### Klargester Domestic Pumping Stations and Domestic+

Our domestic pumping





### **Product Benefits**

- polyethylene for guaranteed durability. maintenance GRP and high quality Comes with options of remote · Made with super-tough, low monitoring systems.
- Designed with easy access features for Choose from either 110mm or 160mm maintenance.
- Lockable covers for optimum security.

# Quick connection outlet couplings.

# Technical Specifications

530

Chamber Size (mm)	Capacity (Ltrs)	Tank Material	Lontrol Panel	Alarm	Pump Type
610 × 700	200	GRP	N/A	Optional	Single
560 × 1,650	400	GRP	N/A	Optional	Single

# Pumping Station System Selecting the Correct

stations are suitable for All Klargester pumping pumping waste water effluent and sewage in accordance with BS 756-2.

### The key factors to size your system are as follows:

Building Regulations for Foul Drainage. type of waste you need to manage, your distance from the sewer and the

Your system size will depend on the They are also designed in line with

- Application: domestic, residential or
- Material application: sewage, effluent or surface water.
- · Inlet depth (below ground level). Pumping distance and lift.

the correct system, please contact our specialist team on **01296 633033** 

For expert advice, to help you select

difference in levels.

- · Electrical supply.

# Included | Optional | Single/T

Included Optional Single/T

GRP

1,600 1,250

Chamber Size 900 x 2080 560 x 1650

GRP

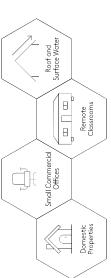
# Technical Specifications - Domestic+

Fechnical Specifications - Domestic

lype	Chamber Size	Capacity (Ltrs)	Tank Material	Panel	Alarm	Pump Type
win	1000 x 2000	1450	Polyethylene	Included	Standard	Single/Twin
Twin	1000 x 2500	2200	Polyethylene	Included	Standard	Single/Twin

# Applications

Suitable for a wide range of applications, the Compact and Domestic range of Klargester Pumping Stations are suitable for the following types of applications and many more.



## Water Management Solutions

### Klargester Vertical Pumping Stations



sizes and dimensions and have a 24-hour storage capacity for foul waste to comply with Building Regulations. A wide range of surface water pumps are available for such applications from small roof run offs, to large SUDS schemes, delivering up to 70 litres/second. Tanks and pumps come in a range of

for installation with no man-entry required. designed as a single-piece chamber, ready Pumpstor Commercial pumping stations are made from robust GRP. They are



Klargester Horizontal

Pumping Stations

### **Product Benefits**

- · High-level alarm.
- Internal lifting chains and guide rails (as
- Wide range of pump options including
  - Range of emergency overflow tanks, macerators/vortex.
- · Various invert depths and positions. Inlet connection sizes to suit site.
- Optional kiosks with warning beacons plastic, galvanised or cast iron.

GRP chambers with internal pipework in

- Service and maintenance plans available to prolong the life of the pump systems.

### Product Benefits



Pumpstor Commercial

responds instantly,

f power supplies fail,

separating liquids and

solids into a separate chamber and storing

Commercial Pump Systems are made from GRP. It is designed as a single piece chamber with two separate sections. one for normal operation and one for

emergency storage

- Multiple valve chamber location and Weir screen features innovative invert options.
  - need to access the chamber during removable filters, so there's no maintenance.
    - High-level alarm.

waste for up to 24 hours.

Once power is restored,

Totally sealed system

- Minimal on-site assembly. installation.

normally again without

the pumps will work

further maintenance.

One-piece tank chamber for easy

- Less cranage and shallower excavation than concrete pumping stations.
- On-site Health & Safety issues are personnel to enter the tank.

## Technical Specifications

# Klargester Adoptable and High Specification Pump Systems

Single/Twin

Standard

GRP

Up to 22,000 Up to 10,000 Up to 4,800

> 2600 Diameter 1800 Diameter

Included Included

Included

GRP GRP

Tank Material

/ertical Tank Size (mm)

1250 Diameter

**Fechnical Specifications** 

531

Pump Type Single/Twin Single/Twin

meet the requirements of Sewers for Adoption 7th The adoptable and high stations are designed to ndustry Standard' (WIS). Edition' and the 'Water specification pump

For expert advice, please contact our specialist team on **01296 633033** 

Manufactured as a ready to install prefabricated unit for Type 1 and Type 2 installations for up to 20 dwellings.

### **Product Benefits**

- GRP single piece wet well delivered to
- Pre-fitted internal pipework, pump guide rails and overflow filters.
- Approved control panel and kiosk.
- All necessary drawings supplied.



Surface Water Run-off

Caravan/ Camping Sites

II. Schools

Housing evelopments 

32

customer requirements, the Klargester range

Designed for easy installation and available in many sizes to meet an extensive range of

Applications

of Horizontal and Vertical Pumping Stations

are typically used in applications including:

ursing Homes

# Klargester Gamma

# Fully Integrated Rainwater Harvesting System

harvesting system, tailor The Klargester Gamma an intelligent rainwater system is designed as made for your home. rainwater harvesting

gutters, filtering out leaves and debris and

It works by taking the rain from your roof

With a technologically advanced finish, Gamma is suitable for both self build projects and residential developments.

storing the water in an underground tank

the tank is robust and lightweight, which

Manufactured from tough polyethylene,

fuss free design offers high functionality,

making it the perfect choice for your

home or garden.

Automatic in operation, the Gamma

makes it easy to handle and install. Its

# Typical Applications Include:

532







Washing Vehicle

Domestic Laundry

\\ \cdots

ensures an automatic supply of harvested mind in your home. The intelligent system For home and garden use, the Gamma is rainwater harvesting system offers powerful features for complete peace of available in capacities between 2,350rainwater for your home and garden. Landscape Watering Garden and

WC Flushing



Header tank (optional extra) 4 Pressure Vessel (not supplied

2 Storage tank

In-line filter 120 microns 6 Internal rainwater filter Grundfos Intelligent Pump— SBA 3-23M

9 External tap (not supplied)

8 Adjustable tank neck

Filtered rainwater feed

Reduces Water Consumption

SÓ

ayback

10 Roof rainwater feed



### Features and Benefits

domestic applications by up to 50%

Easy to install and simple to maintain.

- · 'Fit and Forget' system, ensuring an automatic supply of harvested rainwater.
- Shallow Dig—the Gamma is designed with easy, affordable installation in mind.

1,130mm 1,215mm

2,480mm

750mm

720mm

2,260mm

3,100 Ltrs

**GRW110** 

750mm

720mm

2,260mm

4,600 Ltrs

GRW160

1,180mm

3,000mm

750mm

720mm

1,770mm

2,350 Ltrs

GRW080

Standard Overall Height

- Pea shingle backfill available—no costly excavation and soil disposal necessary (dependent upon site conditions).
  - Fully compliant—Gamma is tested in accordance with BS 8515:2009. standards.

# Optional Extra - Header Tank

which allows the switch over to mains, the When ordering your system, to make the Gravity System complete you will require a header tank. Klargester offers a header tank with weir, ballcock and float valve weir provides the mandatory air gap.

⋖

- A Mains Input
  B Rainwater Input
  C Water Regulations Compliant Mandatory Air Gap

- D Overflow Point
  E Rainwater Level Control
  F Mains Level Control



35.1

Includes tank neck - adjustable to suit required invert

2,260mm

4,600 Ltrs

GRW160

3,100 Ltrs

1,215mm 1,130mm

1,180mm

3,000mm

750mm

720mm

1,768mm 2,260mm

2,350 Ltrs

GRW080 **GRW110** 

2,480mm 3,360mm

750mm 750mm

720mm

# Klargester Aquabank®

Rainwater Harvesting Range

### Overview

The Klargester Aquabank rainwater harvesting system is designed with simplicity in mind.

### Applications:



Vehicle Washing

Garden Watering

For home and garden use, the Aquabank your home's rainwater harvesting needs.

is available in capacities between 1,000

MONEY SAVED THROUGH REDUCED WATER BILLS MEANS AGUABANK CAN PAY BACK ITS PURCHASE COSTS

THE SYSTEM THAT PAYS FOR ITSELF -

and 6,000 litres.

Domestic Laundry

\ ::]

Society of the street of the s

Features and Benefits

Simplified system designed for Easy to install.

rapid installation.

- Quick start set up procedure.
- 'Kit in a box' set of key components.
- Easy conversion to gravity system with header tank.
  - Minimal energy use in operation.
- · Fully compliant designed in accordance with BS EN8515.

How it works





Water is pumped to a garden sprinkler or hose as required

> pressure to an elevated header tank Rainwater is pumped at a constant

Rainwater is stored in underground tank

Model	Capacity (Ltrs)	Model   Capacity (Ltrs)   Standard Overall Height   Standard Inlet Invert   Standard Outlet Invert   Diameter / Width   Lengtl	Standard Inlet Invert	Standard Outlet Invert	Diameter / Width	Lengt
Gravity &	Gravity & Direct System					
AQB010	1,000	2,140mm	500-800mm	530-830mm	1,225mm	1,125mr
AQB028	2,800	2,582mm	500-1000mm	530-1030mm	2,070mm	-
AQB038	3,800	2,811mm	500-1000mm	530-1030mm	2,070mm	I
AQB046	4,600	2,961mm	500-1000mm	530-1030mm	2,070mm	1
AQB060	000′9	2,365mm	500-800mm	530-830mm	1,424mm	4,275mr

# Klargester RainTrap®

# Rainwater Storage and Jelivery System



### Overview

Benefits of Installing Klargester Domestic Rainwater Systems

Aquabank is suitable for single residential

the system controlled by a pump, with options for either direct or gravity fed applications. It's a highly intuitive system applications. It uses cohesive design with

Manufactured from strong GRP material,

easy to install and the smart choice for

Aquabank is a complete 'kit in a box' ·

- easy to use with no need for a control panel, display panel or depth sensor.

tank from which it is pumped at a constant RainTrap system comprises of a filter, an normal way before passing through the underground storage tank and a pump. filter, which removes any leaves or debris. Rainwater runs down the roof and into Rainwater is stored in the underground An economical rainwater harvesting the guttering and downpipes in the pressure to an outside tap as required. system designed to make garden watering simple. The Klargester

% ON WATER CONSUMPTION IN DOMESTIC

APPLICATIONS WITH KLARGESTER RAINWATER HARVESTING SOLUTIONS

traditional garden waterbutts. In addition to being able to store far larger quantities The RainTrap has many advantages over water around and does not flood when of water, it removes the need to carry full, since the excess water exits via a soakaway or surface water drain.

ASSISTS PLANNING APPLICATION—
AUTHORITIES INCREASINGLY EXPECT
APPLICATIONS TO DEMONSTRATE

SUSTAINABLE DRAINAGE (SUDS)

### — Features and Benefits

- · Easy to install.
  - Inexpensive.
- Simple on/off operation.
- Suitable for existing and new homes.
- Available in sizes from 1,000 6,000 litres.
- Automatic rainwater diversion when tank reaches full capacity.
- Designed and manufactured in the UK.



# Technical Specifications – RainTrap

Model Reference	Capacity (Ltrs)	Diameter (mm)	Height Base to Outlet (mm)
RT2800	2,800	2,070	1,540
RT3800	3,800	2,070	1,760
RT4600	4,600	2,080	1,925

### Below Ground Rainwater Klargester Commercial Harvesting System

fully integrated, intelligent washdown areas, garden commercial range is a such applications as rainwater harvesting solution suitable for commercial vehicle The Klargester centres and golf courses.

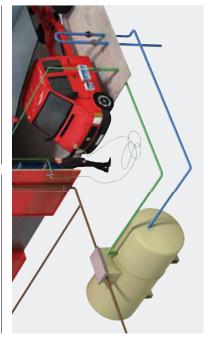


The commercial range provides a secure solution for any size of building project connected together to meet storage from 6,000 litres up to 79,000 litres of water in a single tank. For larger capacities, multiple tanks may be

direct system, depending on specific site It is available as either a gravity or

Features -arge installations are carefully sized and selected, taking into consideration the following factors:

- Roof water yield.
- Groundwork criteria (prevailing water table, soil conditions, requirements or
- water is kept at an optimum level of system specifications, ensuring the



- Projected water consumption.
- Suitable filters and pumps to match traffic access).

directly to site.

clarity and supply pressure).

network in support of the Clargester Product Range. sales service and support comprises our Kingspan and Accredited Installer Service network, which in-house Service team nationwide Kingspan and are proud of our

class service across a range of sectors, including domestic, commercial, industrial, leisure, hospitality and many more. Together we are working to provide first

importance of after

We recognise the

Service and After Sales

Support

pumping stations, separators and rainwater harvesting, our dedicated support network offers the following offers the after sales service and support you would expect from With expertise across the Klargester range of waste water and drainage solutions, a global organisation.

First class technical engineering expertise across a range of off-mains sewage and wastewater applications.

- Day to day technical support.
  - 24 hour breakdown repair.
- Preventative maintenance plans.
  - · Installation and commissioning.
    - Asset monitoring.
- · Consultancy and advice.

To speak with us about any aspect of installation, commissioning or service simply contact:

> Multiple tanks can be joined to cater for Can be installed under trafficked areas

(with reinforced concrete support). Complete packaged units delivered

Capacities from 6,000 to 79,000 litres

within a single tank. larger volumes.

Email: helpingyou@kingspan.com www.kingspan.co.uk/water



**Technical Specifications** 

Single Pump Model Reference	Twin Pump Model Reference	Capacity (Ltrs)	Diameter(m)
ENV02005KSW	ENV0200TKSW	0009	1.4
ENV0275SKSW	ENV0275TKSW	8000	1.8
ENV0350SKSW	ENV0350TKSW	10000	1.8
ENV0485SKSW	ENV0485TKSW	14000	1.8
ENV0625SKSW	ENV0625TKSW	18000	2.6
ENV07655KSW	ENV0765TKSW	22000	2.6
ENV09005KSW	ENV0900TKSW	26000	2.6
ENV1040SKSW	ENV1040TKSW	30000	2.6
ENV1320SKSW	ENV1320TKSW	38000	2.6
ENV14605KSW	ENV1460TKSW	42000	2.6
ENV1735SKSW	ENV1735TKSW	50000	2.6
ENV2050SKSW	ENV2050TKSW	29000	2.6
ENV23255KSW	ENV2325TKSW	00029	2.6
ENV2745SKSW	ENV2745TKSW	79000	2.6

### UK

### Kingspan Environmental Ltd

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F: +44 (0) 1296 633001

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### Norway

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E: avlopslosninger@kingspan.com www.kingspanklargester.com/no

### Germany

### Kingspan Environmental GmbH

Siemensstr. 12a, D-63263 Neu-Isenburg, Deutschland T: +49 (0) 6102 3686700 E: wasser@kingspan.com www.kingspan.de/wasser

### **Australia**

### Kingspan Environmental Pty Ltd

8 Bessemer St, Blacktown Sydney, NSW 2148 T: +61 (0) 2 8889 5400 Toll Free: (within Australia) 1300 736 562 E: sales.au@kingspan.com

www.kingspan.com.au/water

### **Poland**

### Kingspan Environmental Sp. z o.o.

ul. Topolowa 5 62-090 Rokietnica Polska T: +48 61 660 94 71

E: woda@kingspan.com www.kingspan.pl/woda





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**Bordeaux 13kw Contemporary Multi Fuel** Stove

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3 Review(s) | Add Your Review

Availability: In stock

Regular Price: £849.00 SPECIAL PRICE £599.00

Qty: 1

Quick Overview

Bordeaux 13kw... The Bordeaux is curved - modern in design and appearance, and offers a maximum of 13kw, with a nominal heat output of 8kw. Manufactured in Europe from high quality steel that unlike cast iron won't crack or melt, the Bordeaux is a very robust stove and is finished to the highest standards.

The Bordeaux offers contemporary sleek lines, and is finished in dark grey, (almost black) with Chrome controls and door handle. The contemporary design of this wood burning / multi fuel stove incorporates a large ceramic glass window in the door, large combustion chamber, concealed lower log storage shelf and a top warming shelf.

This stove also has an unusually deep fire grate to facilitate overnight burning and offers a superb efficiency rating of 80%, which makes it amongst some of the most efficient stoves on the market. Twin air controls provide optimum control over the burn rate and heat output to give the user optimum control of the appliance.

Additional features include an advanced pre-heat - air wash system that ensures the large glass window remains clean and thus provides a clear view of the fire within. The large combustion chamber is lined with firebricks to provide optimum heating efficiency and an extra deep solid fuel grate enables easy lighting. The Bordeaux is suitable for both wood and solid fuel.

Hand built from high quality materials, the Bordeaux is an impressive looking stove that makes a fantastic focal point.

In accordance with all the stoves that we offer, the Bordeaux carries a 2 year warranty and is CE Marked to EN13240 (latest standard) and manufactured to ISO 9001 Quality Standard... please do not confuse this stove with other cheaper alternatives, it's build quality and finish compares to other stoves that are in excess of £1500. We are often asked how we can offer our stoves at such competitive prices?..We buy direct from the manufacturers, so there is no distributor middle man, we buy in bulk, which reduces the cost price, we handle our logistics to further reduce the "landed" cost of each stove, and we are an ecommerce company with low

overheads..the result..You save money on your stove. Our low prices do not reflect low quality.

Price Includes FREE delivery to mainland UK (3

Day delivery service from date of dispatch) Some areas attract a small delivery charge, please click here to check delivery to your area.

**Product Description** 

We Also Recommend

Additional Information

**Product Tags** 

### Specifications:-

Maximum Space Heat Output: 13kw

Nominal Heating Output: 8kw

Dimensions: W492mm / D471mm / H1140mm

Weight: 110kg

Colour: Dark Grey, almost black (charcoal)

Flue Diameter: 150mm

Features:- Concealed Lower Log Storage Shelf Large, Large Ceramic Glass Window.

Airwash, Extra Deep Fire Grate for Over Night Burn

Flue Outlet: Top Only - (Requires a Euro Adapter £26.00 please see flue and accessories

page on our website)

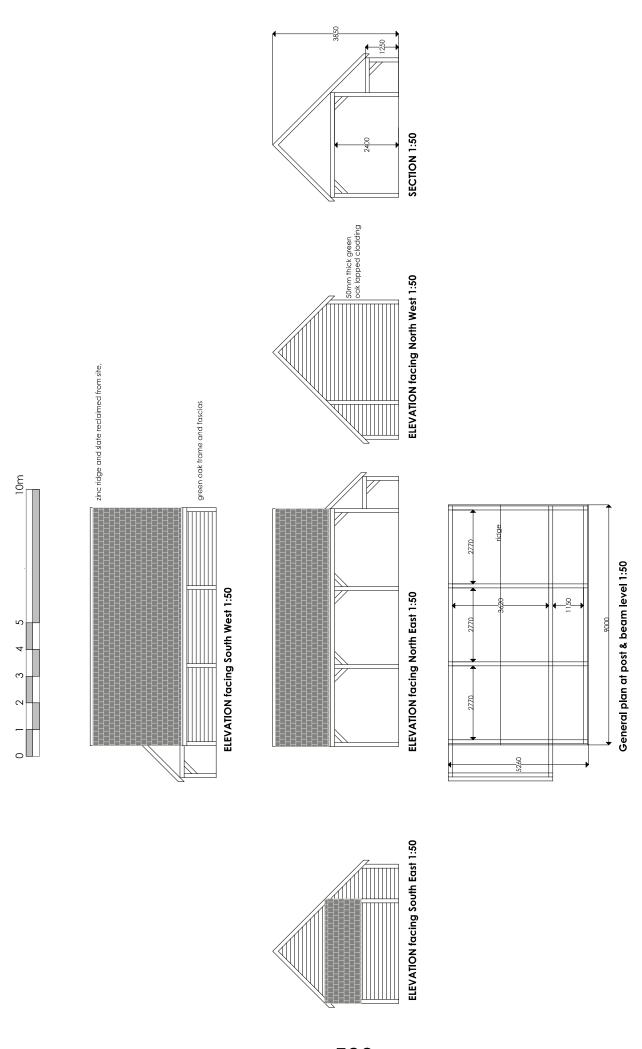
Efficiency: High efficiency 80% Fuel: Wood Burning & Multi Fuel

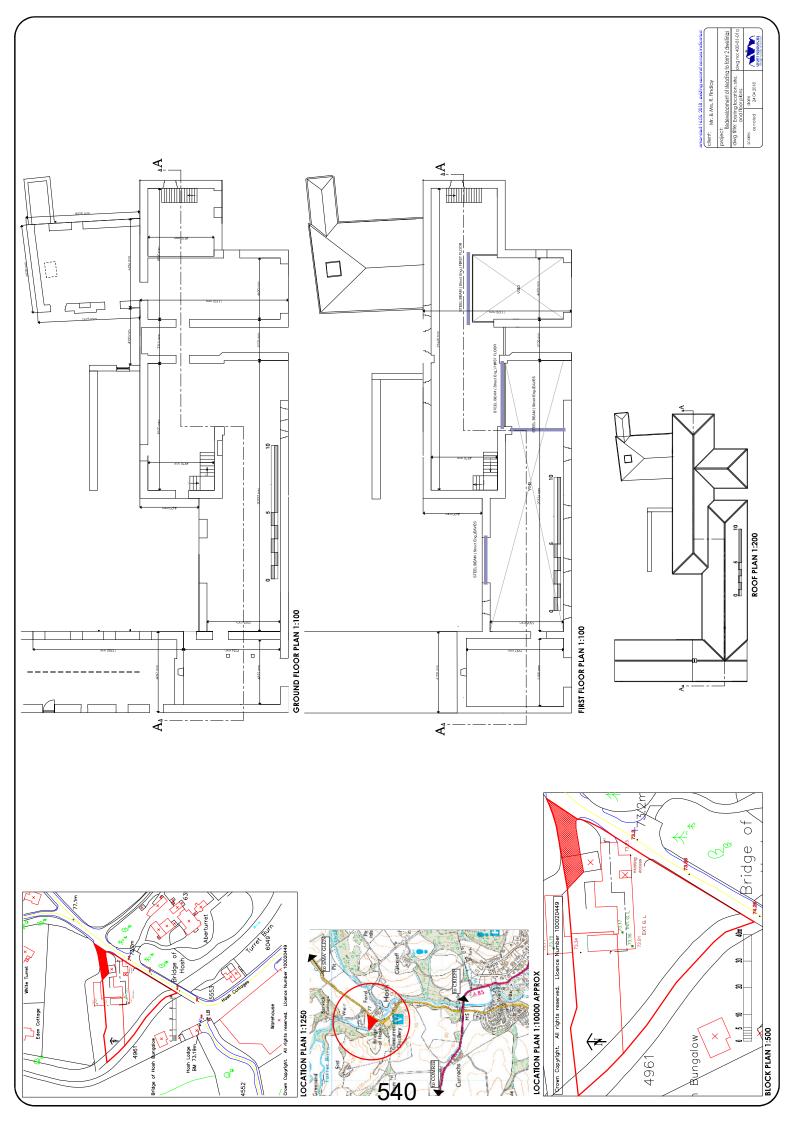
Warranty: 2 years

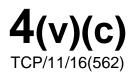
Suitable for a non constuction 12mm hearth Minimum distance to combustibles: 45cm

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© 2017 Modern Stoves, Longfield Business Park, Stockport, Cheshire, SK7 1RB. | 0161 439 1400 | Wood Burning Stoves | Multi Fuel Stoves online. SEO by Barton Media Web Design







TCP/11/16(562) – 18/00726/FLL – Change of use and alterations to agricultural steading to form 2 dwellinghouses, alterations to existing vehicular access and associated works (in part retrospect) vehicular access and associated works (in part retrospect) at Hosh Farm Steading, The Hosh, Crieff, PH7 4HA

### REPRESENTATIONS

9<sup>th</sup> May 2018

Perth & Kinross Council Pullar House 35 Kinnoull Street Perth PH1 5GD



Development Operations
The Bridge
Buchanan Gate Business Park
Cumbernauld Road
Stepps
Glasgow
G33 6FB

Development Operations
Freephone Number - 0800 3890379
E-Mail - DevelopmentOperations@scottishwater.co.uk
www.scottishwater.co.uk

Dear Local Planner

PH7 Crieff The Hosh Hosh Farm Steading

PLANNING APPLICATION NUMBER: 18/00726/FLL

**OUR REFERENCE: 760784** 

PROPOSAL: Change of use and alterations to agricultural steading to form 2no. dwellinghouses, formation of additional vehicular access and associated works (in part retrospect)

### Please quote our reference in all future correspondence

Scottish Water has no objection to this planning application; however, the applicant should be aware that this does not confirm that the proposed development can currently be serviced and would advise the following:

### Water

 There is currently sufficient capacity in the Turret Water Treatment Works. However, please note that further investigations may be required to be carried out once a formal application has been submitted to us.

### Foul

 Unfortunately, according to our records there is no public Scottish Water, Waste Water infrastructure within the vicinity of this proposed development therefore we would advise applicant to investigate private treatment options.

The applicant should be aware that we are unable to reserve capacity at our water and/or waste water treatment works for their proposed development. Once a formal connection application is submitted to Scottish Water after full planning permission has been granted, we will review the availability of capacity at that time and advise the applicant accordingly.

### **Surface Water**

For reasons of sustainability and to protect our customers from potential future sewer flooding, Scottish Water will not normally accept any surface water connections into our combined sewer system.

There may be limited exceptional circumstances where we would allow such a connection for brownfield sites only, however this will require significant justification from the customer taking account of various factors including legal, physical, and technical challenges.

In order to avoid costs and delays where a surface water discharge to our combined sewer system is anticipated, the developer should contact Scottish Water at the earliest opportunity with strong evidence to support the intended drainage plan prior to making a connection request. We will assess this evidence in a robust manner and provide a decision that reflects the best option from environmental and customer perspectives.

### General notes:

• Scottish Water asset plans can be obtained from our appointed asset plan providers:

Site Investigation Services (UK) Ltd Tel: 0333 123 1223 Email: sw@sisplan.co.uk www.sisplan.co.uk

- Scottish Water's current minimum level of service for water pressure is 1.0 bar or 10m head at the customer's boundary internal outlet. Any property which cannot be adequately serviced from the available pressure may require private pumping arrangements to be installed, subject to compliance with Water Byelaws. If the developer wishes to enquire about Scottish Water's procedure for checking the water pressure in the area then they should write to the Customer Connections department at the above address.
- If the connection to the public sewer and/or water main requires to be laid through land out-with public ownership, the developer must provide evidence of formal approval from the affected landowner(s) by way of a deed of servitude.
- Scottish Water may only vest new water or waste water infrastructure which is to be laid through land out with public ownership where a Deed of Servitude has been obtained in our favour by the developer.
- The developer should also be aware that Scottish Water requires land title to the area
  of land where a pumping station and/or SUDS proposed to vest in Scottish Water is
  constructed.
- Please find all of our application forms on our website at the following link https://www.scottishwater.co.uk/business/connections/connecting-your-property/new-development-process-and-applications-forms

### Next Steps:

### Single Property/Less than 10 dwellings

For developments of less than 10 domestic dwellings (or non-domestic equivalent) we will require a formal technical application to be submitted directly to Scottish Water or via the chosen Licensed Provider if non domestic, once full planning permission has been granted. Please note in some instances we will require a Pre-Development Enquiry Form to be submitted (for example rural location which are deemed to have a significant impact on our infrastructure) however we will make you aware of this if required.

### • 10 or more domestic dwellings:

For developments of 10 or more domestic dwellings (or non-domestic equivalent) we require a Pre-Development Enquiry (PDE) Form to be submitted directly to Scottish Water prior to any formal Technical Application being submitted. This will allow us to fully appraise the proposals.

Where it is confirmed through the PDE process that mitigation works are necessary to support a development, the cost of these works is to be met by the developer, which Scottish Water can contribute towards through Reasonable Cost Contribution regulations.

### Non Domestic/Commercial Property:

Since the introduction of the Water Services (Scotland) Act 2005 in April 2008 the water industry in Scotland has opened up to market competition for non-domestic customers. All Non-domestic Household customers now require a Licensed Provider to act on their behalf for new water and waste water connections. Further details can be obtained at <a href="https://www.scotlandontap.gov.uk">www.scotlandontap.gov.uk</a>

### Trade Effluent Discharge from Non Dom Property:

Certain discharges from non-domestic premises may constitute a trade effluent in terms of the Sewerage (Scotland) Act 1968. Trade effluent arises from activities including; manufacturing, production and engineering; vehicle, plant and equipment washing, waste and leachate management. It covers both large and small premises, including activities such as car washing and launderettes. Activities not covered include hotels, caravan sites or restaurants.

If you are in any doubt as to whether or not the discharge from your premises is likely to be considered to be trade effluent, please contact us on 0800 778 0778 or email TEQ@scottishwater.co.uk using the subject "Is this Trade Effluent?". Discharges that are deemed to be trade effluent need to apply separately for permission to discharge to the sewerage system. The forms and application guidance notes can be found using the following link <a href="https://www.scottishwater.co.uk/business/our-services/compliance/trade-effluent/trade-effluent-documents/trade-effluent-notice-form-h">https://www.scottishwater.co.uk/business/our-services/compliance/trade-effluent/trade-effluent-documents/trade-effluent-notice-form-h</a>

Trade effluent must never be discharged into surface water drainage systems as these are solely for draining rainfall run off.

For food services establishments, Scottish Water recommends a suitably sized grease trap is fitted within the food preparation areas so the development complies with Standard 3.7 a) of the Building Standards Technical Handbook and for best management and housekeeping practices to be followed which prevent food waste, fat oil and grease from being disposed into sinks and drains.

The Waste (Scotland) Regulations which require all non-rural food businesses, producing more than 50kg of food waste per week, to segregate that waste for separate collection. The regulations also ban the use of food waste disposal units that dispose of food waste to the public sewer. Further information can be found at <a href="https://www.resourceefficientscotland.com">www.resourceefficientscotland.com</a>

If the applicant requires any further assistance or information, please contact our Development Operations Central Support Team on 0800 389 0379 or at planningconsultations@scottishwater.co.uk.

Yours sincerely

Hannah Ashby
Development Operations
Hannah.Ashby2@scottishwater.co.uk



By email to: Developmentmanagement@pkc.gov.uk

Perth and Kinross Council Pullar House 35 Kinnoull Street Perth PH1 5GD Longmore House Salisbury Place Edinburgh EH9 1SH

Enquiry Line: 0131-668-8716 <u>HMConsultations@hes.scot</u>

> Our ref: HGP/D/TC/5 Our case ID: 300022662 Your ref: 18/00726/FLL 10 May 2018

#### Dear Sir/Madam

Town and Country Planning (Development Management Procedure) (Scotland) Regulations 2013

Hosh Farm Steading The Hosh Crieff PH7 4HA - Change of use and alterations to agricultural steading to form 2no. dwellinghouses, formation of additional vehicular access and associated works (in part retrospect)

Thank you for your consultation which we received on 07 May 2018. We have assessed it for our historic environment interests and consider that the proposals have the potential to affect the following:

Ref Name Designation Type
GDL00304 OCHTERTYRE Garden and Designed
Landscape

You should also seek advice from your archaeology and conservation service for matters including unscheduled archaeology and category B and C-listed buildings.

#### **Our Advice**

We have considered the information received and do not have any comments to make on the proposals. Our decision not to provide comments should not be taken as our support for the proposals. This application should be determined in accordance with national and local policy on development affecting the historic environment, together with related policy guidance.

#### **Further Information**

Historic Environment Scotland – Longmore House, Salisbury Place, Edinburgh, EH9 1SH Scottish Charity No. **SC045925** 

VAT No. GB 221 8680 15



This response applies to the application currently proposed. An amended scheme may require another consultation with us.

Guidance about national policy can be found in our 'Managing Change in the Historic Environment' series available online at <a href="https://www.historicenvironment.scot/advice-and-support/planning-and-guidance/legislation-and-guidance/managing-change-in-the-historic-environment-guidance-notes/">historic-environment-guidance-notes/</a>. Technical advice is available through our Technical Conservation website at <a href="https://www.engineshed.org">www.engineshed.org</a>.

Yours faithfully

**Historic Environment Scotland** 



To:	John Russell, Planning Officer		
From:	Sophie Nicol, Historic Environment Manager		
Tel:			
Email:			
Date:	11th May 2018		

18/00726/FLL Change of use and alterations to agricultural steading to form 2no. dwellinghouses, formation of additional vehicular access and associated works (in part retrospect) Hosh Farm Steading The Hosh Crieff PH7 4HA

Thank you for consulting PKHT on the above application.

In respect to archaeology and the planning process, as outlined by Scottish Planning Policy, the proposed development does not raise any significant issues. No archaeological mitigation is required in this instance.

### **Comments to the Development Quality Manager on a Planning Application**

Planning Application ref.	18/00726/FLL	Comments provided by	Euan McLaughlin		
Service/Section	Strategy & Policy	Contact Details	Development Negotiations Officer: Euan McLaughlin		
Description of Proposal	Change of use and alterations to agricultural steading to form 2no. dwelling-houses, alterations to existing vehicular access and associated works (in part retrospect)				
Address of site	Hosh Farm Steading, The Hosh, Crieff				
Comments on the proposal	NB: Should the planning application be successful and such permission not be implemented within the time scale allowed and the applicant subsequently requests to renew the original permission a reassessment may be carried out in relation to the Council's policies and mitigation rates pertaining at the time.  THE FOLLOWING REPORT, SHOULD THE APPLICATION BE				
	SUCCESSFUL IN GAINING PLANNING APPROVAL, MAY FORM THE BASIS OF A SECTION 75 PLANNING AGREEMENT WHICH MUST BE AGREED AND SIGNED PRIOR TO THE COUNCIL ISSUING A PLANNING CONSENT NOTICE.				
	Primary Education				
	With reference to the above planning application the Council Developer Contributions Supplementary Guidance requires a financial contribution towards increased primary school capacity in areas where a primary school capacity constraint has been identified. A capacity constraint is defined as where a primary school is operating, or likely to be operating following completion of the proposed development and extant planning permissions, at or above 80% of total capacity.  This proposal is within the catchment of Crieff Primary School.				
	under 10/00583/FLL for the conversion use. This proposal seeks to sub-divide welling. This additional dwelling will be education.				
Recommended planning	Summary of Requireme	ents			
<b>condition(s)</b> Education: £6,460 (1 x £6,460)					
	<u>Total</u> : £6,460				
	Phasing				
	ution should be made up front of ditional costs to the applicants and or single dwelling applications is not the Council or applicant.				

The contribution may be secured by way of a Section 75 Agreement. Please be aware the applicant is liable for the Council's legal expense in addition to their own legal agreement option and the process may take months to complete.

If a Section 75 Agreement is entered into the full contribution should be received 10 days prior to occupation.

# Recommended informative(s) for applicant

#### **Payment**

Before remitting funds the applicant should satisfy themselves that the payment of the Development Contributions is the only outstanding matter relating to the issuing of the Planning Decision Notice.

#### **Methods of Payment**

On no account should cash be remitted.

#### Scheduled within a legal agreement

This will normally take the course of a Section 75 Agreement where either there is a requirement for Affordable Housing on site which will necessitate a Section 75 Agreement being put in place and into which a Development Contribution payment schedule can be incorporated, and/or the amount of Development Contribution is such that an upfront payment may be considered prohibitive. The signed Agreement must be in place prior to the issuing of the Planning Decision Notice.

**NB:** The applicant is cautioned that the costs of preparing a Section 75 agreement from the applicant's own Legal Agents may in some instances be in excess of the total amount of contributions required. As well as their own legal agents fees, Applicants will be liable for payment of the Council's legal fees and outlays in connection with the preparation of the Section 75 Agreement. The applicant is therefore encouraged to contact their own Legal Agent who will liaise with the Council's Legal Service to advise on this issue.

#### Other methods of payment

Providing that there is no requirement to enter into a Section 75 Legal Agreement, eg: for the provision of Affordable Housing on or off site and or other Planning matters, as advised by the Planning Service the developer/applicant may opt to contribute the full amount prior to the release of the Planning Decision Notice.

#### **Remittance by Cheque**

The Planning Officer will be informed that payment has been made when a cheque is received. However this may require a period of 14 days from date of receipt before the Planning Officer will be informed that the Planning Decision Notice may be issued.

Cheques should be addressed to 'Perth and Kinross Council' and forwarded with a covering letter to the following:

Perth and Kinross Council

Pullar House

35 Kinnoull Street

Perth
PH15GD

#### **Bank Transfers**

All Bank Transfers should use the following account details;

**Sort Code**: 834700

Account Number: 11571138

Please quote the planning application reference.

#### Direct Debit

The Council operate an electronic direct debit system whereby payments may be made over the phone.

To make such a payment please call 01738 475300 in the first instance. When calling please remember to have to hand:

- a) Your card details.
- b) Whether it is a Debit or Credit card.
- c) The full amount due.
- d) The planning application to which the payment relates.
- e) If you are the applicant or paying on behalf of the applicant.
- f) Your e-mail address so that a receipt may be issued directly.

#### **Education Contributions**

For Education contributions please quote the following ledger code: 1-30-0060-0001-859136

#### Indexation

All contributions agreed through a Section 75 Legal Agreement will be linked to the RICS Building Cost Information Service building Index.

#### **Accounting Procedures**

Contributions from individual sites will be accountable through separate accounts and a public record will be kept to identify how each contribution is spent. Contributions will be recorded by the applicant's name, the site address and planning application reference number to ensure the individual commuted sums can be accounted for.

# Date comments returned

24 May 2018

# Memorandum

To Development Quality Manager From Regulatory Services Manager

Your ref 18/00726/FLL Our ref LRE

Date 25 May 2018 Tel No

The Environment Service

Pullar House, 35 Kinnoull Street, Perth PH1 5GD

#### **Consultation on an Application for Planning Permission**

PK18/00726/FLL RE: Change of use and alterations to agricultural steading to form 2no. dwelling houses, formation of additional vehicular access and associated works (in part retrospect) Hosh Farm Steading The Hosh Crieff PH7 4HA for Rod Finlay

I refer to your letter dated 7 May 2018 in connection with the above application and have the following comments to make.

Environmental Health (assessment date – 25/05/18)

#### Recommendation

I have no objection in principle to the application but recommend the under noted condition be included on any given consent.

#### Comments

This Service made comment with regards to odour from wood burning stove in memorandum dated 8 August 2018 for previously withdrawn application 17/01121/FLL

The applicant proposes to install a Bordeaux 13Kw multi Fuel Stove within the lounge area of dwelling house plot 1.

There are several exisitng residential properties within close proximity to the application site the closest is The North Barn which is adjacent to Plot 2 of the development.

#### **Air Quality**

The Environment Act 1995 places a duty on local authorities to review and assess air quality within their area. Technical Guidance LAQM.TG (16) which accompanies this act advises that biomass boilers within the range of 50kW to 20MW should be assessed in terms of nitrogen dioxide and particulate matter. The pollution emissions of concern from biomass are particulate matter ( $PM_{10}/PM_{2.5}$ ) and nitrogen oxides (NOx).

As the proposed stove to be installed is a small domestic stove it is well below the range to be assessed, therefore I have no adverse comments to make with regards to local air quality.

#### **Nuisance**

This Service has seen an increase in nuisance complaints with regards to smoke and smoke odour due to the installation of biomass appliances. Nuisance conditions can come about due to poor installation and maintenance of the appliance and also inadequate dispersion of

emissions due to the inappropriate location and height of flue with regards to surrounding buildings.

The flue exhaust for the stove is to be through a chimney at roof level of the dwelling house (Plot 1) and therefore the emissions should disperse adequately.

However I recommend the undernoted condition be included on any given consent to protect residential amenity from nuisance from smoke/ smoke odour.

#### Condition

**EH50** The stove shall be installed operated and maintained in full accordance with the manufacturer's instructions and shall not be used to burn fuel other than that approved for use by the manufacturer of the appliance as detailed in the information supporting this permission.



Our ref: PCS/158959 Your ref: 18/00726/FLL

If telephoning ask for: Alasdair Milne

6 June 2018

Perth and Kinross Council Pullar House 35 Kinnoull Street Perth PH1 5GD

By email only to: <a href="mailto:DevelopmentManagement@pkc.gov.uk">DevelopmentManagement@pkc.gov.uk</a>

Dear Sir

Planning application: 18/00726/FLL

Change of use and alterations to agricultural steading to form 2no. dwellinghouses, formation of additional vehicular access and associated works (in part retrospect) Hosh Farm Steading, The Hosh, Crieff, PH7 4HA

Thank you for your consultation email which SEPA received on 7 May 2018.

#### Advice for the planning authority

We **object** to this planning application on the grounds of a lack of information relating to flood risk. We will review this objection if the issues detailed in Section 1 below are adequately addressed.

#### 1. Flood Risk

- 1.1 We **object** to the proposed development on the grounds that it may place buildings and persons at flood risk contrary to Scottish Planning Policy.
- 1.2 In the event that the planning authority proposes to grant planning permission contrary to this advice on flood risk, the Town and Country Planning (Notification of Applications) (Scotland) Direction 2009 provides criteria for the referral to the Scottish Ministers of such cases. You may therefore wish to consider if this proposal falls within the scope of this Direction.

#### Technical Report

1.3 We previously objected to an earlier application (17/01121/FLL) for this site by way of our letter dated 9 August 2017. We objected due to lack of information and requested a satisfactory Flood Risk Assessment (FRA) that identifies the extent and water level of a 0.5%AP (1:200) flood. The FRA should consider the impact of climate change, freeboard allowance and any appropriate flood mitigation. If there are any proposals to mitigate the risk of flooding to the proposed development then the assessment should also consider the





Chief Executive

impact of this on the risk of flooding elsewhere.

- 1.4 The applicant has submitted a Level 1 FRA in support of the current application. Within the FRA it is stated that "the overland flow route is to the opposite bank of the watercourse, bounding the site. This level has been determined as being at 73.00mm." We assume that this means 73.00mAOD and not millimetres. From the drawing entitled topographic survey showing overland flow route, 73.0mAOD is on the edge of the flood extent, which is shown to extend further east to higher ground, therefore showing that the level of the proposed flooding is higher than 73.0mAOD. This is assumed to be based on a 100% full blockage of the downstream bridge. We would note that during a blockage scenario water levels upstream will increase above the overland flow route level as stated above. It is unclear what return period this flood extent refers to.
- 1.5 We advise that the submitted information to date is inadequate to demonstrate that the proposed development is outwith the 0.5% AP (1:200) floodplain. We therefore strongly recommend that a satisfactory FRA be undertaken that includes both a hydrological assessment and hydraulic modelling to establish design flood levels at the site. The FRA should take account of the impact of climate change and potential bridge blockage. Development levels should include an appropriate freeboard allowance in addition to an allowance for climate change impacts. We will provide additional comments upon completion and submission of a satisfactory FRA and will advise if we are in a position to withdraw our objection.

#### Summary of Technical Points

- 1.6 In summary we wish to receive clarification on the following points before we would consider removing our objection to the proposed development:
  - A detailed FRA, including hydraulic modelling, which identifies the extent and water level of a 0.5% AP (1:200) flood. The FRA should consider the impact of climate change, blockage scenarios, freeboard allowance and any appropriate mitigation. If there are any proposals to mitigate the risk of flooding to the proposed development then the assessment should also consider the impact of this on the risk of flooding elsewhere.

#### Caveats & Additional Information for Applicant

- 1.7 The SEPA Flood Maps have been produced following a consistent, nationally-applied methodology for catchment areas equal to or greater than 3km² using a Digital Terrain Model (DTM) to define river corridors and low-lying coastal land. The maps are indicative and designed to be used as a strategic tool to assess flood risk at the community level and to support planning policy and flood risk management in Scotland. For further information please visit <a href="http://www.sepa.org.uk/environment/water/flooding/flood-maps/">http://www.sepa.org.uk/environment/water/flooding/flood-maps/</a>
- 1.8 We refer the applicant to the document entitled: "*Technical Flood Risk Guidance for Stakeholders*". This document provides generic requirements for undertaking Flood Risk Assessments and can be downloaded from <a href="http://www.sepa.org.uk/environment/land/planning/guidance-and-advice-notes/">http://www.sepa.org.uk/environment/land/planning/guidance-and-advice-notes/</a>.

Please note that this document should be read in conjunction Policy 41 (Part 2).





Chairman

**Bob Downes** 

Chief Executive

- 1.9 Our Flood Risk Assessment checklist should be completed and attached within the front cover of any flood risk assessments issued in support of a development proposal which may be at risk of flooding. The document will take only a few minutes to complete and will assist our review process. It can be downloaded from <a href="http://www.sepa.org.uk/media/159170/flood-risk-assessment-checklist.xls">http://www.sepa.org.uk/media/159170/flood-risk-assessment-checklist.xls</a>.
- 1.10 Please note that we are reliant on the accuracy and completeness of any information supplied by the applicant in undertaking our review, and can take no responsibility for incorrect data or interpretation made by the authors.
- 1.11 The advice contained in this letter is supplied to you by SEPA in terms of Section 72 (1) of the Flood Risk Management (Scotland) Act 2009 on the basis of information held by SEPA as at the date hereof. It is intended as advice solely to Perth & Kinross Council as Planning Authority in terms of the said Section 72 (1). Our briefing note entitled: "Flood Risk Management (Scotland) Act 2009: Flood risk advice to planning authorities" outlines the transitional changes to the basis of our advice in line with the phases of this legislation and can be downloaded from <a href="http://www.sepa.org.uk/environment/land/planning/guidance-and-advice-notes/">http://www.sepa.org.uk/environment/land/planning/guidance-and-advice-notes/</a>

#### Regulatory advice for the applicant

#### 2. Regulatory requirements

- 2.1 Authorisation is required under The Water Environment (Controlled Activities) (Scotland)
  Regulations 2011 (CAR) to carry out engineering works in or in the vicinity of inland surface
  waters (other than groundwater) or wetlands. Inland water means all standing or flowing
  water on the surface of the land (e.g. rivers, lochs, canals, reservoirs).
- 2.2 Details of regulatory requirements and good practice advice for the applicant can be found on the <u>Regulations section</u> of our website. If you are unable to find the advice you need for a specific regulatory matter, please contact a member of the regulatory team in your local SEPA office at:

SEPA, Strathearn House, Broxden Business Park, Lamberkine Drive, Perth, PH1 1RX, tel 01738 627989

If you have any queries relating to this letter, please contact me by telephone on 01786 452537 or e-mail at <a href="mailto:planning.se@sepa.org.uk">planning.se@sepa.org.uk</a>

Yours faithfully

Alasdair Milne Senior Planning Officer Planning Service

ECopy to: <u>arumresources@talktalkbusiness.net</u>





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#### Disclaimer

This advice is given without prejudice to any decision made on elements of the proposal regulated by us, as such a decision may take into account factors not considered at this time. We prefer all the technical information required for any SEPA consents to be submitted at the same time as the planning or similar application. However, we consider it to be at the applicant's commercial risk if any significant changes required during the regulatory stage necessitate a further planning application or similar application and/or neighbour notification or advertising. We have relied on the accuracy and completeness of the information supplied to us in providing the above advice and can take no responsibility for incorrect data or interpretation, or omissions, in such information. If we have not referred to a particular issue in our response, it should not be assumed that there is no impact associated with that issue. For planning applications, if you did not specifically request advice on flood risk, then advice will not have been provided on this issue. Further information on our consultation arrangements generally can be found on our website planning pages.





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Our ref: PCS/159797 Your ref: 18/00726/FLL

If telephoning ask for: Alasdair Milne

9 July 2018

John Russell
Perth and Kinross Council
Pullar House
35 Kinnoull Street
Perth
PH1 5GD

By email only to: <a href="mailto:JRussell@pkc.gov.uk">JRussell@pkc.gov.uk</a>

Dear Sir

Planning application: 18/00726/FLL

Change of use and alterations to agricultural steading to form 2no. dwellinghouses, formation of additional vehicular access and associated works (in part retrospect) Hosh Farm Steading, The Hosh, Crieff, PH7 4HA

Thank you for your consultation email which SEPA received on 22 June 2018.

#### Advice for the planning authority

We **maintain our objection** to the proposed development on the grounds that it may place buildings and persons at flood risk contrary to Scottish Planning Policy.

In the event that the planning authority proposes to grant planning permission contrary to this advice on flood risk, the Town and Country Planning (Notification of Applications) (Scotland) Direction 2009 provides criteria for the referral to the Scottish Ministers of such cases. You may therefore wish to consider if this proposal falls within the scope of this Direction.

#### 1. Flood Risk

- 1.1 We previously responded to this application on the 6 June 2018. We objected due to lack of information and requested a detailed Flood Risk Assessment (FRA), including hydraulic modelling, to identify the extent and water level of a 0.5% AP (1:200) flood at the application site. The FRA should consider the impact of climate change, blockage scenarios, freeboard allowance and any appropriate mitigation.
- 1.2 Arum Resources have since submitted a response to our objection. The applicant states that there is an inconsistent approach from consultees on flooding in the area around this development. In response we would advise that we hold no records of being formally consulted by the planning authority on flood risk at Clochaigh, The Hosh. We are therefore unable to comment on this application associated with that development. During the consultation on the proposed site in 2010, SEPA stated that "our Flood Risk Assessment"





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**Bob Downes** 

checklist should be completed and attached within the front cover of any flood risk assessment issued in support of a development proposal which may be at risk of flooding." It was also stated within Arum's correspondence that Perth & Kinross flooding section required a FRA to be undertaken at this site but was overruled by the Development Quality Manager.

1.3 We remain of the opinion that a detailed FRA is required in order to understand the risk of flooding to the development. It is currently our view that the proposal to create two dwellinghouses from this one building may potentially increase in the number of people at risk of flooding, which is contrary to the principles of Scottish Planning Policy.

#### Summary of Technical Points

- 1.4 In summary we wish to receive clarification on the following points before we would consider removing our objection to the proposed development:
  - A detailed Flood Risk Assessment, including hydraulic modelling, which identifies the
    extent and water level of a 0.5% AP (1:200) flood. The FRA should consider the impact
    of climate change, blockage scenarios, freeboard allowance and any appropriate
    mitigation and the impact of the proposals on the risk of flooding elsewhere.

#### Caveats & Additional Information for Applicant

- 1.5 The SEPA Flood Maps have been produced following a consistent, nationally-applied methodology for catchment areas equal to or greater than 3km² using a Digital Terrain Model (DTM) to define river corridors and low-lying coastal land. The maps are indicative and designed to be used as a strategic tool to assess flood risk at the community level and to support planning policy and flood risk management in Scotland. For further information please visit <a href="http://www.sepa.org.uk/environment/water/flooding/flood-maps/">http://www.sepa.org.uk/environment/water/flooding/flood-maps/</a>
- 1.6 We refer the applicant to the document entitled: "Technical Flood Risk Guidance for Stakeholders". This document provides generic requirements for undertaking Flood Risk Assessments and can be downloaded from <a href="http://www.sepa.org.uk/environment/land/planning/guidance-and-advice-notes/">http://www.sepa.org.uk/environment/land/planning/guidance-and-advice-notes/</a>.

Please note that this document should be read in conjunction Policy 41 (Part 2).

- 1.7 Our Flood Risk Assessment checklist should be completed and attached within the front cover of any flood risk assessments issued in support of a development proposal which may be at risk of flooding. The document will take only a few minutes to complete and will assist our review process. It can be downloaded from <a href="http://www.sepa.org.uk/media/159170/flood-risk-assessment-checklist.xls">http://www.sepa.org.uk/media/159170/flood-risk-assessment-checklist.xls</a>.
- 1.8 Please note that we are reliant on the accuracy and completeness of any information supplied by the applicant in undertaking our review, and can take no responsibility for incorrect data or interpretation made by the authors.
- 1.9 The advice contained in this letter is supplied to you by SEPA in terms of Section 72 (1) of the Flood Risk Management (Scotland) Act 2009 on the basis of information held by SEPA as at the date hereof. It is intended as advice solely to Perth & Kinross Council as Planning Authority in terms of the said Section 72 (1). Our briefing note entitled: "Flood Risk"





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**Bob Downes** 

Management (Scotland) Act 2009: Flood risk advice to planning authorities" outlines the transitional changes to the basis of our advice in line with the phases of this legislation and can be downloaded from <a href="http://www.sepa.org.uk/environment/land/planning/guidance-and-advice-notes/">http://www.sepa.org.uk/environment/land/planning/guidance-and-advice-notes/</a>

#### Regulatory advice for the applicant

#### 2. Regulatory requirements

2.1 Details of regulatory requirements and good practice advice for the applicant can be found on the <u>Regulations section</u> of our website. If you are unable to find the advice you need for a specific regulatory matter, please contact a member of the regulatory team in your local SEPA office at:

Strathearn House, Lamberkine Drive, Perth, PH1 1RX, tel 01738 627989

If you have any queries relating to this letter, please contact me by telephone on 01786 452537 or e-mail at planning.se@sepa.org.uk

Yours faithfully

Alasdair Milne Senior Planning Officer Planning Service

ECopy to: arumresources@talktalkbusiness.net

#### Disclaimer

This advice is given without prejudice to any decision made on elements of the proposal regulated by us, as such a decision may take into account factors not considered at this time. We prefer all the technical information required for any SEPA consents to be submitted at the same time as the planning or similar application. However, we consider it to be at the applicant's commercial risk if any significant changes required during the regulatory stage necessitate a further planning application or similar application and/or neighbour notification or advertising. We have relied on the accuracy and completeness of the information supplied to us in providing the above advice and can take no responsibility for incorrect data or interpretation, or omissions, in such information. If we have not referred to a particular issue in our response, it should not be assumed that there is no impact associated with that issue. For planning applications, if you did not specifically request advice on flood risk, then advice will not have been provided on this issue. Further information on our consultation arrangements generally can be found on our website planning pages.





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**Bob Downes** 

### **Comments to the Development Quality Manager on a Planning Application**

Planning	18/00726/FLL	Comments	D.Lynn			
Application ref.	, ,	provided	,			
		by				
Service/Section	TES - Flooding	Contact Details	floodingdevelopmentcontrol@pkc.gov.uk			
Description of Proposal	Change of use and alterations to agricultural steading to form 2no. dwellinghouses, formation of additional vehicular access and associated works (in part retrospect)					
Address of site	Hosh Farm Steading The Hosh Crieff PH7 4HA					
Comments on the proposal						
	Objection,					
	Some discrepancies have been noticed within the FRA and such have also been highlighted as a concern by SEPA. I would agree with SEPA's request that due to issues noted within the supplied FRA that a further detailed FRA should be submitted as part of the application.					
Becommended.						
Recommended planning condition(s)	N/A					
Recommended informative(s) for applicant	PKC Flooding and Flood Risk Guidance Document (June 2014)					
Date comments returned	12/07/2018					