



UISENIS WIND FARM FISH HABITAT SURVEY REPORT

UISENIS WIND FARM

OUTER HEBRIDES FISHERIES TRUST

1/12/2022

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Quality Assurance

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1 Executive Summary

Gavia Environmental Ltd. ('GEL') was commissioned by the Outer Hebrides Fisheries Trust (OHFT) ('the Client') to compile a summative report of baseline data collected by the OHFT on fish habitat and salmonid spawning habitat for the Uisenis Wind Farm ('the Development') located at grid reference NB 30848 12877 (centre point of development) on the Eisgein Estate, approximately 20 km southwest of Stornoway on the Isle of Lewis ('the Site').

The Outer Hebrides Fisheries Trust carried out fish habitat surveys at six locations following the methodology outlined in Scottish Fisheries Coordination Centre (SFCC) (2007). Observations were made in the context of SFCC definitions and those outlined by Louhi et al. (2008). Field data was then analysed and graded as having High, Good, Moderate, Poor or Low fish habitat quality.

Fish spawning potential surveys were carried out at six locations following the SFCC (2007) methodology and graded as having Optimal, Sub-Optimal or Not Suitable salmonid habitat suitability.

Fish habitat survey results ranged from High (Uise 4 and Uise 5), Good (Uise 2 and Uise 6) and Moderate (Uise 1 and Uise 3). No Poor or Low fish habitats were identified.

Fish spawning habitat results ranged from Optimal (Uise 5), Sub-Optimal (Uise 2, Uise 3, Uise 4) and Not Suitable (Uise 1, Uise 6).

Based on this assessment, electrofishing surveys are recommended for survey locations Uise 2, Uise 4, Uise 5 and Uise 6 to provide baseline data for the salmonid population densities and to further inform the species community assemblage present within the Site. Moreover, it is recommended that "control site(s)" are established during baseline electrofishing, i.e. locations outwith the potential sphere of influence of the development. The objective of the "control site(s)" are to record any effects that are catchment based and not directly attributable to the proposed Development. These controls will be able to assess whether changes in fish population structure is a wider catchment based effect or one directly attributable to the proposed Development. Macroinvertebrate surveys are proposed as a biological water quality monitoring parameter and to assess prey resources for fish present in survey locations Uise 2, Uise 4, Uise 5 and Uise 6. Redd counts are additionally proposed for survey locations Uise 2, Uise 3, Uise 4 and Uise 5 during known spawning periods (November to January) to assess spawning utilisation of survey locations and to determine relative importance of survey locations in sustaining overall salmonid populations.

2 Introduction

Gavia Environmental Ltd. ('GEL') was commissioned by the Outer Hebrides Fisheries Trust (OHFT) ('the Client') to compile a summative report of baseline data collected by the OHFT for the Uisenis Wind Farm ('the Development') located at grid reference NB 30848 12877 (centre point of Development) on the Eisgein Estate, approximately 20 km southwest of Stornoway on the Isle of Lewis ('the Site').

The Development encompasses 26 turbines up to a maximum of 215 metres in height with an installed capacity of 189 MW (Eurowind Energy, 2022). In 2022 Eurowind Energy submitted a Scoping Report to the Scottish Government outlining environmental surveys and assessments required; this report fulfils such a purpose.

This report aims to:

- Provide baseline fish habitat data for the Development;
- Identify areas of Optimal fish habitat and fish spawning habitat; and
- Make relevant recommendations for further surveys to inform the baseline if required.

3 Methodology

3.1 Desk Study

A desktop study was carried out at the start of the commission to review pre-existing data to provide background on existing fish community assemblages. Information sources used for this study are described below:

- NBN Atlas (2022) – a species search was conducted for fish species known to occur within the Development area within the last 10 years via non-commercial data records¹;
- Scottish Environmental Protection Agency (SEPA) (2022) – the SEPA Water Classification Hub was referred to and information regarding the classification status of parameters affecting fish communities (e.g., barriers to migration, water quality) were noted;
- Naturescot (2022) – a search was performed looking for nature conservation sites with qualifying interests relating to fish species or aquatic environments within 2km of the Development including; Natura 2000 sites (i.e. Special Areas of Conservation); Special Sites of Scientific Interest (Statutory); and Local Nature Reserves or Local Wildlife Sites (non-statutory).

3.1.1 River Classifications

The rivers present on stream are considered to be under the following classifications:

- **Abhainn Cheothadail (ID: 20761)** is considered to be in a 'High' overall status receiving a 'High' classification on every parameter measured since 2008, including that of fish ecology and fish barriers. The main stem is approximately 7.8 kilometres in length and flows into Loch Sealg.
- **Abhainn Cleann Airighean Dhomhnaill (ID: 20762)** is considered in 'Good' overall status since 2016 receiving 'High' and 'Good' classifications on all parameters measured. Parameters relevant to fish ecology include macroinvertebrates (High) and fish barriers (High). The main stem is approximately 4.7 kilometres and flows into Loch Sealg, however, impassable falls are located approximately 250 m inland of Loch Sealg. Consequently, adult migratory salmonids are only able to access 250 m of the 4.7 km river. Limitations of this river course are primarily water quality parameters, such as acidity and pH, and accessibility for adult migratory salmonids moving upstream.

The rivers Abhainn Ghlas, Abhainn Scrihascro and Allt Cheothadail are currently not listed on the SEPA (2022) Water Classification Hub.

3.2 Nature Conservation Designations

No areas with qualifying interests relating to fish species or aquatic environments were identified.

3.3 Review of Known Fish Species

Within the Site, three fish species are known to be present: European eel (*Anguilla Anguilla*), Atlantic salmon (*Salmo salar*) and brown/sea trout (*Salmo trutta*) (NBA Atlas, 2022). The 15-spined stickleback (*Spinachia spinachia*) is known to occur in adjacent areas to the north of the Site but has not been recorded within the Site (NBA Atlas, 2022).

3.4 Survey Locations

The Site is situated on an area of predominantly peatland habitat on the Pairc peninsula on the south-eastern area of the Isle of Lewis. Watercourses on the Site fall into three water catchments; the Sgiobacleit catchment; the Eishken catchment; and the Loch Shell catchment. Within these catchments, six survey locations were selected for baseline fish habitat assessment. British grid references are given upstream of the survey location of each of the survey locations, with approximately 100 m² surveyed at each location. A rationale for survey locations is additionally supplied in Table 1 based on the turbine layout provided by the Outer Hebrides Fisheries Trust on 07/11/2022.

¹ Data on protected species has been obtained from the National Biodiversity Network (NBN) Atlas under CC-BY and OGL licenses is available: CC-BY: Creative Commons with Attribution (more information available at: <https://creativecommons.org/licenses/by/4.0/>)
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Table 1: Survey Locations

Survey Location	Watercourse	Catchment	British Grid Reference (Upstream of Survey location)	Rationale
Uise 1	Abhainn Ghlas	Sgiobacleit System	132340 914889	Uise 1 is downstream of proposed turbines at the north of the Site and flows into Loch an Eilein Liatha where it may introduce construction run off from proposed turbines.
Uise 2	Abhainn Scrihascro	Eishken System	131571 913678	Uise 2 is upstream of Loch Esigein (which it discharges in to and may be impacted by construction run off from numerous proposed surrounding turbines.
Uise 3	Allt Cheothadail	Eishken System	130783 912472	Uise 3 is a tributary of the Abhainn Cheothadail and is situated upstream of Uise 5 and downstream of Uise 4 where it may be impacted by construction run off from proposed turbines higher up in the Eishken system.
Uise 4	Abhainn Cheothadail	Eishken System	130281 912279	Uise 4 is upstream of Uise 3 and Uise 5 where it may be impacted by construction run off from proposed turbines to the north and south of the survey location. Uise 4 additionally provides a base to assess the cumulative impacts of Uise 3 and Uise 5.
Uise 5	Abhainn Cheothadail	Eishken System	131055 912324	Uise 5 is downstream of survey location Uise 4 and Uise 3 and may be impacted by construction run off from proposed turbines to the north and south of the water course. Uise 5 runs into Loch Feoir which runs into Loch Eisgein.
Uise 6	Abhainn Cleann Airighean Dhomhnaill	Loch Shell	129407 910755	Uise 6 is out with red line boundary but lies directly downstream of three proposed turbines making it susceptible to construction run off.

Survey locations relative to proposed turbine locations are available in Appendix A and B. Photographs of survey locations are available in Appendix C.

3.5 Fish Habitat Survey

3.5.1 Fieldwork

Fieldwork was conducted on 31st October 2022 for survey locations Uise 1 – Uise 5, and on the 1st of November 2022 for Uise 6.

A walkover fish habitat survey was conducted along watercourses within the Site and one out with the Site boundary classifying: instream substrate types, bankside habitat characteristics, land use, channel dimensions, barriers to migration, water flow type, and salmonid spawning suitability according to the Scottish Fisheries Coordination Centre (SFCC) fish and spawning habitat classification categories outlined in the SFCC Habitat Surveys Training Course Manual (SFCC, 2007). Criteria used to inform desirable criteria for salmonids is available in Table 2.

Table 2: Desirable Salmonid Habitat Conditions taken from SFCC (2007)

	Salmon	Trout
Egg/Alevins	Golf ball to tennis-ball-sized (coarse) substrate	Dependent on fish size: Golf-ball to tennis-ball - sized substrate for large brown trout and sea-trout. Pea to golf-ball sized material for smaller trout.
Fry (<1 year old)	Golf ball to tennis-ball-sized (coarse) substrate, fast flowing, shallow broken water.	Golf-ball to tennis-ball sized substrate, slow to medium flowing shallow water, often concentrated at stream margins.

	Salmon	Trout
Parr (≥1 year old)	Tennis-ball to football-sized (coarse) substrate, fast flowing broken water, often slightly deeper than fry	Variety of substrate, undercut banks, tree roots, big rocks, deeper slower water.
Smolts	Unknown	Unknown.
Adults	Deep pools	Deeper areas, sustained flow, but not too fast, undercut banks, tree roots, good instream vegetation and large rocks.

Recording sheets are available in Appendix D-I.

3.5.2 Analysis

Analysis was conducted separately for salmonid habitat quality and salmonid spawning potential. Salmonid habitat type was determined via the fulfilment of desirable habitat types outlined in Table 2, taken from the SFCC Habitat Surveys Training Course Manual (SFCC, 2007).

Fish habitat suitability was graded taking the criteria outlined in Table 2 into consideration. Habitat was categorised into five suitability grades: High; Good; Moderate; Low; and Poor, described in Table 3.

Table 3: Fish habitat suitability grades

Grade	Conditions
High	All desirable habitat conditions are met
Good	Most of desirable habitat requirements met with few adverse conditions present
Moderate	Habitat displays a mixture of both desirable and adverse conditions
Poor	Habitat primarily consists of adverse conditions with few desirable conditions present
Low	Little/no desirable habitat conditions present

Salmonid spawning potential was assessed via the SFCC Walkover Habitat Survey Protocol and Habitat Surveys Training Course Manual (2007). Survey locations were graded as having Optimal, Sub-Optimal or Not Suitable salmonid spawning potential. Spawning potential is considered Optimal if an area greater than 10 m² is present with clean and suitable substrate likely suitable to all salmonids. Spawning potential is considered Sub-Optimal if spawning area is <10 m² with a mix of suitable and unsuitable substrate types. Not Suitable spawning habitat contains no suitable spawning habitat. Additional assessment of spawning potential was taken from Louhi *et al.* (2008) to provide additional information on the categories assessed: substrate type, substrate compaction, river depth, flow type, and siltation. Spawning habitat potential assessment criteria is shown in Table 4.

Table 4: Suitable Salmon and Trout Spawning Habitat taken from SFCC (2007) and Louhi et al. (2008)

	Substrate	Substrate compaction	Depth (cm)	Flow Type	Siltation
Salmon	Gravel, pebble, cobble	Uncompacted	20-50	Swift velocities	No siltation
Trout	Gravel, pebble, cobble	Uncompacted	15-45	Slower flow	No siltation

3.6 Limitations to Survey

The survey was conducted outwith SFCC optimal survey times (Mid-May to September) when instream and bankside vegetation is fully developed, rivers are more likely to be in consistently low flow conditions and weather is more favourable. This may result in an underestimation of the actual habitat status due to vegetation die-back on the banks and from river substrate being obscured by higher flow rates.

Additionally, peat staining of the water throughout survey locations may have prevented accurate assessment of substrate types and instream cover in areas of deeper water.

4 Results

Results of the fish habitat and spawning suitability survey are presented in Table 5.

Table 5: Results of Fish Habitat and Spawning Potential Surveys

Survey Location	Fish Habitat Quality	Salmonid Spawning Potential
Uise 1	Moderate	Not Suitable
Uise 2	Good	Sub-Optimal
Uise 3	Moderate	Sub-Optimal
Uise 4	High	Sub-Optimal
Uise 5	High	Optimal
Uise 6	Good	Not Suitable

4.1 Uise 1

Fish Habitat Quality was determined to be **Moderate**. Uise 1 provided overall good quality for adult trout, however, was limited in providing habitat for salmon and other trout life stages. Substrate composition of cobble/high organic matter (both 50%) provided Sub-Optimal substrate for salmon/brown trout at all life stages. Flow type dominated by deep pools primarily >80 cm in depth provided Optimal habitat for adult brown trout and holding pools for spawning salmon, however, was unsuitable for fry and was out with the maximum depth preferences of parr. Bankside cover was excellent at 100% coverage on both sides, dominated by undercutting and roots on the left bank, and undercutting on the right bank. A culvert present provided additional anthropogenic fish cover but did not present a barrier to migration in the flow conditions present at the time of survey.

Spawning potential was determined to be **Not Suitable** due to a lack of qualifying Optimal and Sub-Optimal features. Substrate composition was 50/50 cobble/high organic matter with a notable absence of preferential gravel and pebbles, this was partly compacted. River depth provided Poor suitability with 95% of area surveyed unsuitable between 41-80+ cm in depth for both salmon and brown trout. Although no instream siltation was recorded the dominance of flow type as deep pool making this Not Suitable for salmon and Sub-Optimal for brown trout.

4.2 Uise 2

Fish Habitat Quality was determined to be **Good** due to the dominance of habitat suited to a wide range of life stages. Substrate was highly variable with gravel (5%), pebble (25%), cobble (50%) and boulder (20%), however, the dominance of coarser substrate types and notable lack of finer substrates makes the survey location Optimal for all life stages. The primary flow type of shallow glide (70%) is Optimal for all life stages. Areas of run (10%) and riffle (10%) are considered Optimal for juvenile salmon but are present only in small quantities. The dominance of depth ranging from 21-40 cm is Optimal for parr and considered Sub-Optimal for fry at their respective depth limits, and Not Suitable for adults. Both banks provide good coverage with 100% bank cover dominated by undercutting, root and rock presence.

Spawning potential was determined to be **Sub-optimal**. Substrate composition was primarily cobble (50%) and pebble (25%) with some gravel (5%) that was uncompacted providing Optimal conditions. Depth additionally provided Optimal conditions for both salmon and brown trout with 90% of water between 21-40cm with some additional area between 41-80cm in depth. Flow type was dominated by an Optimal shallow glide (70%) flow with smaller proportions of shallow pools (10%), run (10%) and riffle (10%) with no instream siltation. Although a dominance of Optimal features were observed, the area this covered was >10 m² at 6 m² and therefore did not qualify as Optimal under SFCC classification.

4.3 Uise 3

Fish Habitat Quality was determined to be **Moderate**. Substrate type ranged widely from gravel (10%), pebble (15%), cobble (20%), boulder (50%) and bedrock (5%). High coverage of coarser substrates provide Optimal habitat for salmonids at all life stages. Flow type was dominated by unsuitable torrent water (65%) with some Optimal riffle (15%) areas for salmon juveniles and Optimal shallow glide (20%) for all salmonids. Depths varied considerably throughout the survey location from 0-20 cm (10%), 21-40 cm (55%) and 41-80 cm (35%) providing minimal Optimal depth suitability for fry but large Optimal areas for parr. Both banks provide good fish cover at 100% (left bank) and 80% (right bank) as a result of undercutting, vegetation draping, and rock.

Spawning potential was determined to be **Sub-optimal** due to a mixture of Optimal and Sub-Optimal qualifying features and a lack of Not Suitable features. Substrate composition was primarily unsuitable boulder (50%) with areas of suitable substrate with gravel (10%), pebble (15%) and cobble (20%) providing overall Sub-Optimal conditions. Substrate was uncompacted with no siltation but substrate was unstable. Depth was primarily Optimal with 55% of water within 21-40 cm with Sub-Optimal shallower (0-20 cm) depths at 10% and deeper (41-80 cm) at 35% providing overall Sub-Optimal conditions. Flow type was dominated by unsuitable torrent water (due to the presence of a large waterfall within the survey location) at 65% with some Optimal areas present with shallow glide (20%) and riffle (15%) providing overall Sub-Optimal conditions. The useable spawning area was 15% and covered 3 m².

4.4 Uise 4

Fish Habitat Quality was determined to be **High**. Substrate was dominated by Optimal coarse substrate types primarily boulder (55%), cobble (25%) with unsuitable bedrock (10%) and fine substrates (10%) for all life stages present in lower percentages. Flow type was dominated by an Optimal riffle (40%) / run sequence (25%) for juvenile salmon and sub-Optimal area for brown trout. Still marginal (5%) and shallow glide (30%) flows provided Optimal flow types for salmonids at all life stages. Water depths were within Optimal ranges for salmonid parr but considered unsuitable for fry and out with preferred depths of adult salmonids and therefore Sub-Optimal. Bank cover was good with both banks recording 80% fish cover due to a dominance of bank undercutting and rocks.

Spawning potential was determined to be **Sub-Optimal**. Despite a dominance of Optimal fish habitat features, there was a lack of spawning substrate limiting spawning potential. Substrate was primarily unsuitable boulder (55%), high organic (5%), sand (5%) and bedrock (10%) with areas of Sub-Optimal cobble. Depth ranged from Optimal (30%) with some Sub-Optimal and unsuitable areas (combined 70%). Substrate was optimally stable and uncompacted with no siltation present. Flow type consisted of Optimal salmon areas, 40% riffle, with areas both Optimal for salmon and trout, run (25%), still marginal (5%) and shallow glide (30%).

4.5 Uise 5

Fish Habitat Quality was determined to be **High**. Substrate types provided a range of Optimal conditions with a dominance of coarse cobble (40%), pebble (30%), gravel (20%) and boulder (10%). Flow type was dominated by run flow (80%) considered Optimal for all salmonid life stages, areas of riffle (15%) provided Optimal conditions for salmon juveniles. Depth ranges from 21-40 cm (40%) and 41-80 cm (60%) providing Optimal depths for all juvenile salmonids but unsuitable conditions for fry and Sub-Optimal for adults. Fish cover was good at 90% (left bank) and 80% (right bank) with vegetation draping and bank undercutting providing cover.

Spawning potential was determined to be **Optimal**. Substrate was Optimal ranging from gravel (20%), pebble (30%) and cobble (40%) with smaller areas of unsuitable boulder (10%). Substrate was uncompacted and stable with no instream siltation observed. Depth consisted of both Optimal (40%) and Optimal/Sub-Optimal (60%) areas. The dominance of run (80%) and riffle (15%) flow type was Optimal for salmon but Sub-Optimal for brown trout. Other flow types of still marginal (5%) and riffle (15%) was Optimal for all salmonids. It should be noted that although classed overall as Optimal this survey location is likely Optimal for salmon and Sub-Optimal for brown trout. Total useable spawning area covered 144 m².

4.6 Uise 6

Fish Habitat Quality was determined to be **Good**. Substrate was dominated by unsuitable bedrock (60%) and the Optimal coarser substrates of boulder (20%), cobble and pebble (both 10%). River depth supported Optimal ranges for all life stages of salmonids but was notably suited to parr and

adults. Flow types were dominated by riffle (50%) and run (30%) flow types were Optimal for salmonid parr and Sub-Optimal for adults slower flow types including still marginal (5%) and deep pool (10%) was Optimal for all life stages of salmonid. Bankside fish cover was moderate at 40% at both banks with existing cover dominated by rock.

Spawning potential was determined to be **Not suitable**. Substrate present showed Optimal areas of pebble (10%) and cobble (20%), however, the survey location was dominated by unsuitable bedrock (60%) and boulder (20%). Substrate was uncompacted and stable and no siltation was present. Depth was primarily Not Suitable (40%) with areas Sub-Optimal/Not Suitable (50%) and minimal Optimal (10%) areas. Flow type was Optimal for salmon consisting of riffle (50%) and run (30%), Sub-Optimal for brown trout containing minimal Optimal areas (5%) with 10% of the survey location unsuitable. The useable spawning area covered 3 m². Additionally, impassable falls upstream of the survey location limit spawning potential in upstream areas.

5 Discussion

5.1 Fish Habitat

The habitat quality at each survey location varied; ranging from *High* (Uise 4 and Uise 5), *Good* (Uise 2 and Uise 6) to *Moderate* (Uise 1 and Uise 3). The presence of suitable substrates for juvenile and adult salmonid fish in addition to suitable flow types, depths and fish cover present contributed to these high categorisations. No survey locations were categorised as *poor* or *low*.

Several survey locations are situated downstream of multiple turbines and/or tributaries where turbines have been proposed. Consequently, numerous survey locations are at risk of cumulative impacts from the run-off from the Development such as Uise 5 that is downstream of Uise 3 and 4, a tributary and impacted area respectively.

As several survey locations include higher categorisations (e.g. *High* and *Good*) of fish habitat, it is suggested that electrofishing surveys be conducted to fully assess the fish populations present and to assess if any other species of nature conservation concern, such as European Eel, are present within the area.

It is additionally suggested that to adequately assess the impacts of the Development on the survey locations control sites need to be included in addition to those surveyed. These should be survey locations outwith the potential impacts of the Development to provide a baseline from which to put any fish population data into context when measuring the impacts of the Development. A control site within each river catchment should be considered. Moreover, macroinvertebrate surveys are suggested as a biological water quality monitoring parameter to further assess the habitat suitability of survey locations and to provide information on the prey resources potentially available for fish.

Survey locations on or discharging into the Abhainn Cheothadail, Uise 4, Uise 3 and Uise 5, are considered in High and Moderate fish habitat quality with Optimal and Sub-Optimal spawning habitat potential despite SEPA (2022) classification regarding fish ecology as 'High'. Additionally, the outlet of Loch Eisgein has a known Dam, of which the Abhainn Cheothadail runs into. The SEPA (2022) categorisation of the river as 'High' for fish barriers and the classification as 'Passable' (Scotland's Environment, 2022) suggests this does not pose an impassable barrier to migration, resultingly the survey locations are accessible to both migratory and resident salmonids.

Similarly, SEPA (2022) classifications on the Abhainn Cleann Airighean Dhomnaill received an overall 'Good' status with fish and fish barriers both receiving 'High' status, this is in line with the *Good* categorisation given within the results of this report. However, it should be noted that a wider range of parameters were measured for the Abhainn Cleann Airighean Dhomnaill than for the Abhainn Cheothadail with water quality parameters such as acidity and pH reducing overall ecological status; these were not measured for the Abhainn Cheothadail.

5.2 Salmonid Spawning Habitat

Salmonid spawning potential was variable within survey locations ranging from Optimal (Uise 5), Sub-Optimal (Uise 2, Uise 3 and Uise 4) and Not Suitable (Uise 1 and Uise 6). Overall, the majority of survey locations provided below Optimal spawning potential primarily due to the lack of suitable substrate and insufficient depths and flow types present.

It should be noted that the use of SFCC characterisation for spawning habitat suitability may result in the lower categorisation of survey areas due to the criteria that the useable spawning area must exceed 10 m². Consequently, survey locations such as Uise 2 were categorised as Sub-Optimal

despite containing areas of Optimal spawning habitat. As results show limited areas of Optimal spawning it is possible salmonids are primarily utilising Sub-Optimal spawning habitat areas.

As a result it is recommended that Redd counts are conducted in all survey locations of both Optimal and Sub-Optimal conditions to better assess the degree of spawning utilisation.

6 Recommendations

Based on the results of this report it is recommended that:

- Electrofishing surveys are conducted for all survey locations in a High or Good condition (Uise 2, Uise 4, Uise 5 and Uise) to provide baseline data for the actual salmonid populations and to further inform the species present within the Site;
- Electrofishing surveys are conducted outwith the potential sphere of influence of the Development to act as baseline surveys to inform whether survey locations identified have been impacted;
- Macroinvertebrate surveys are conducted for all survey locations in a High or Good condition (Uise 2, Uise 4, Uise 5 and Uise) as a biological water quality monitoring parameter and to assess the availability of prey resources for fish; and
- Redd counts are conducted for all survey locations in Optimal or Sub-Optimal conditions (Uise 2, Uise 3, Uise 4 and Uise 5) during known spawning to assess the degree of spawning utilisation, to estimate the number of females spawners in a given survey location and to determine its relative importance in sustaining wider salmonid populations.

7 References

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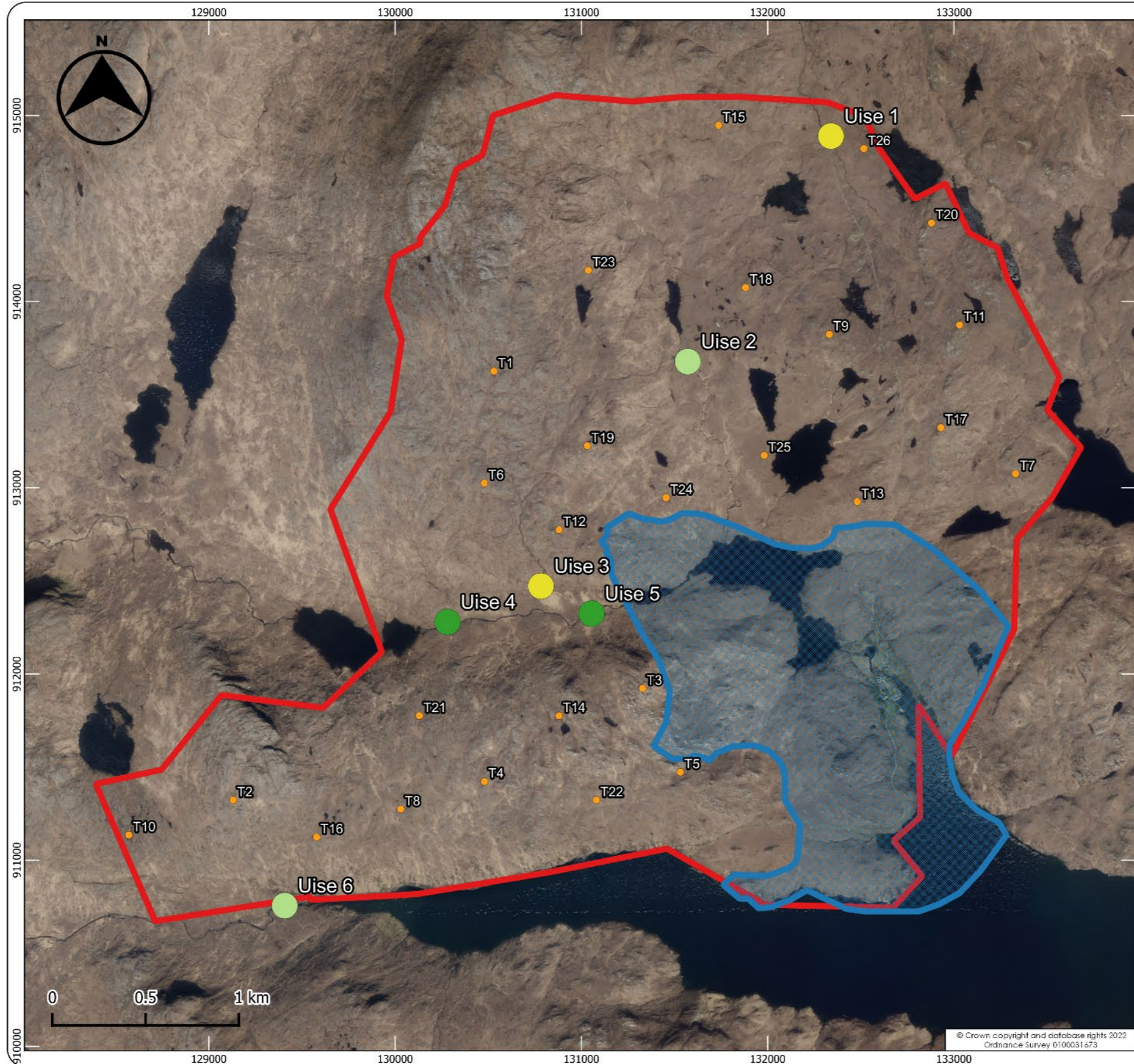
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Fish Habitat Assessment



Legend

- Red Line Boundary
- Estate Exclusion Zone
- Turbine Locations

Fish Habitat Survey Locations

- High
- Good
- Moderate

Project Number: P23002

Project Title: Uisenis Wind Farm Fish Habitat Survey Report

Client: Outer Hebrides Fisheries Trust

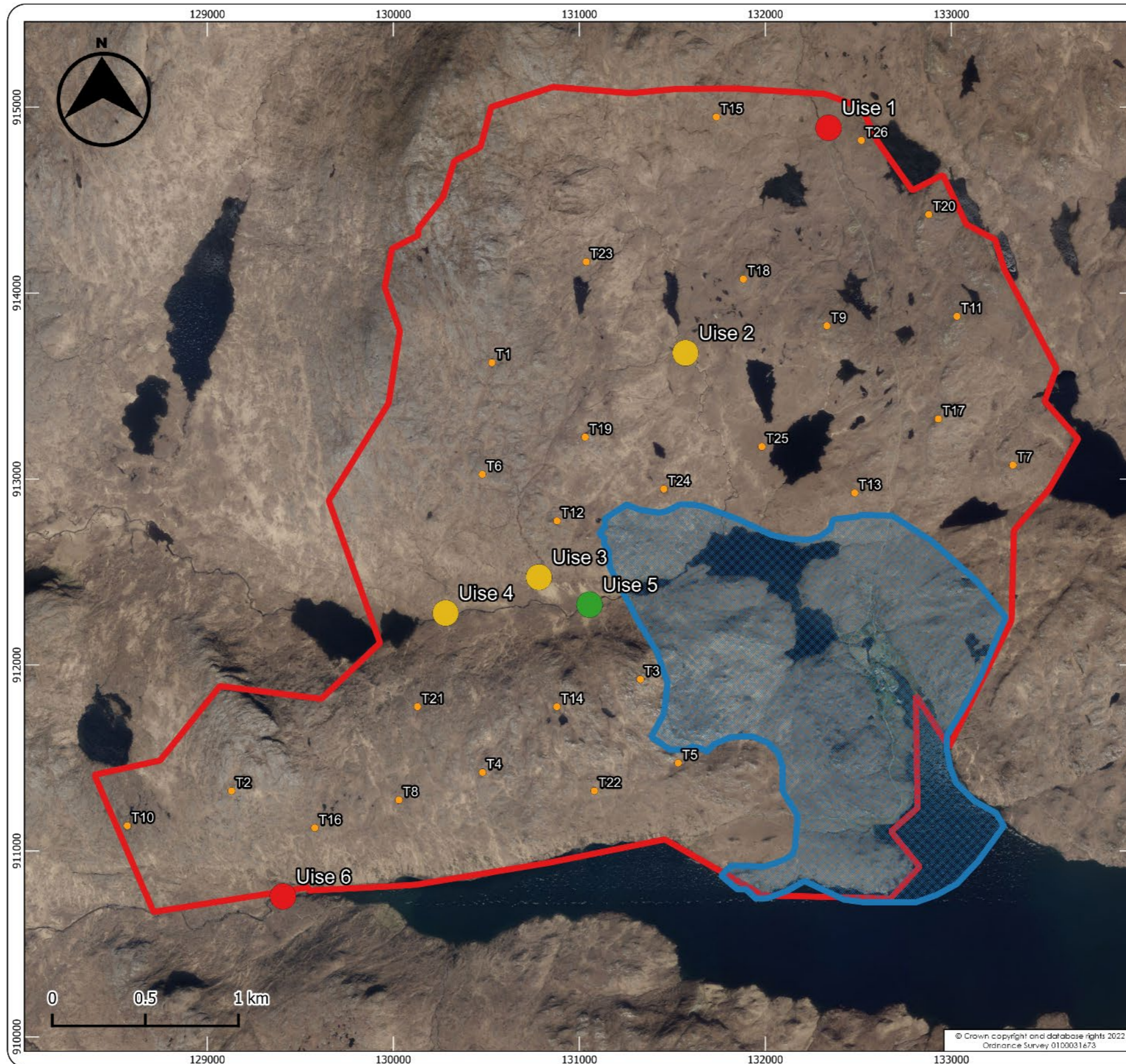
Figure Title: Uisenis Fish Habitat

Status: Final	Revision: 1	Page Size: A3
Drawn: RS	Reviewed: DM	Date: 15/11/2022

Perth: Inverdamond Business Centre, Auld Bond Road, PH1 3FX | Telephone: 1738 718 685
 Glasgow: 54 Cook Street, G5 8JQ | Telephone: 0141 401 0699
 Nottingham: 16 Commerce Square, Lace Market, NG1 1HS | Telephone: 0115 695 0692

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Appendix B Fish Spawning Assessment



Legend

- Red Line Boundary
 - Estate Exclusion Zone
 - Turbine Locations
- Fish Spawning Potential**
- Optimal
 - Sub-Optimal
 - Not Suitable

Project Number: P23002

Project Title: Uisenis Wind Farm Fish Habitat Survey Report

Client: Outer Hebrides Fisheries Trust









Figure Title:
Uisenis Spawning Habitat

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Appendix C Survey Location Photographs

Survey Location	Downstream facing Upstream	Upstream facing Downstream
Uise 1		
Uise 2		
Uise 3		
Uise 4		

Survey Location	Downstream facing Upstream	Upstream facing Downstream
Uise 5		
Uise 6		

Appendix D Eisgein Habitat Survey - Uise 1

SFCC HABITAT SURVEY VERSION 3.0 NOVEMBER 2013																		
GENERAL INFORMATION																		
ID	Uise 1	River	Abhainn Ghlas					Altitude (m)	20	Date	31.10.2022							
DownstE (m)		DownstN (m)		Conductivity	93													
		Water level	Circle ONE: Dry / Low / Medium															
Surveyor	Name: Paul Hopper						Proprietors											
	Accreditation Code:						Notes		U/S end of Site Co-ordinates: 132340 914889									
CHANNEL DATA																		
Wet width (m)	3.1	Bed width (m)	3.1	Bank width (m)	3.1	Mature islands(n)	0											
WATER DEPTHS (% OF SURVEY STRETCH WETTED AREA)																		
0-20 cm	0	21-40 cm	5	41-80 cm	10	>80 cm	85											
SUBSTRATE (% OF SURVEY STRETCH WETTED AREA)																		
HO	50	SI	0	SA	0	GR	0	PE	0	CO	50	BO	0	BE	0	OB	0	
Instream veg (%)	25		Silted?	Y / N				Iron deposits (%)	0	LWD	0							
Substrate	Circle ONE of EACH: Stable / Unstable AND Compacted / Partly Uncompacted																	
Substrate notes																		
CHANNEL FEATURES (% OF SURVEY STRETCH LENGTH)																		
Braided channels (%)	0					Braids stable?	Y / N / NA											
Channel feature notes																		
FLOW (% OF SURVEY STRETCH WETTED AREA)																		
SM	0	DP	100	SP	0	DG	0	SG	0	RU	0	RI	0	TO	0			
Flow notes																		
CANOPY COVER (% OF SURVEY STRETCH WETTED AREA)																		
Canopy cover (%)	0		Canopy cover notes															
LEFT BANK (looking DOWNSTREAM)																		
BANKSIDE FISH COVER (% OF BANK LENGTH)																		
Fish Cover (%)	100		Type	Circle ANY: DR UC / MA RT / RK / OTH..... OR NONE														
Cover Notes																		
GENERAL BANKSIDE STATUS (% OF BANK LENGTH)																		
Riparian buffer zone (m)		Grazing intensity (bankface & buffer zone)	Circle ONE: None / Light / Moderate / Intense															
Grazers (bankface & buffer zone)	Circle ANY: Deer Livestock Rabbits OR None																	
Grazing exclusion feature(s) present	Circle ANY OR 'None': Deer fence / Stock fence / Wall / Hedge / Rabbit mesh / Other OR None												Exclusion upgrade required (m)					
Predominant bankface vegetation	Circle ONE: Bare / Uniform / Simple / Complex																	
Predominant buffer zone vegetation	Circle ONE: Bare / Uniform / Simple / Complex																	
Collapse (%)	Severe:.....	Moderate:.....	Light:.....	Erosion (%)	Severe:.....	Moderate:.....	Light:.....											
Trampling (%)	Severe:.....	Moderate:.....	Light:.....	Bankside notes	No collapse, erosion or trampling at site													
Side bars (%)	0	Side bars stable?	Y / N / NA	Point bars (%)	0	Point bars stable?	Y / N / NA											
RIPARIAN ZONE																		
Overhanging boughs (% of bank length - trees and shrubs)	0		Predominant overhanging trees	Circle ONE: Deciduous / Evergreen / None														

Predominant land use (50m from banktop)	Circle ONE: AR / BL / CP / FW / GP / IG / IN (MH) NC / OR / OW / RD / RP / RS / SC / SU / TH / TL / WL		
Other land uses (50m from banktop)	Circle ANY (EXCLUDING category already circled above) OR 'NA': AR / BL / CP / FW / GP / IG / IN / MH / NC / OR / OW / RD / RP / RS / SC / SU / TH / TL / WL OR (NA)		
Presence of young plantations	Circle ANY: Deciduous / Coniferous / Mixed OR (None)		
Conifer planting: F&W guidelines?	Y / N / (NA)	Riparian notes	

POLLUTION, OBSTACLES, MODIFICATIONS AND SPAWNING CONT'D										PAGE
ID	Uise 1	River	Abhainn Ghlas			Date	31.10.2022			
POLLUTION POINTS										
ID		Easting		Northing		Time				
Type	Circle ONE: FE / FR / IN / RD / SE / SD / ?? / OTH					Status	Potential / Actual			
Dead fish?	Y / N	Photos		Contact						
Notes										
ID		Easting		Northing		Time				
Type	Circle ONE: FE / FR / IN / RD / SE / SD / ?? / OTH					Status	Potential / Actual			
Dead fish?	Y / N	Photos		Contact						
Notes										
OBSTACLES										
ID		Easting		Northing						
Type	Circle ANY: BR / CU / DA / FC / FD / FS / FT / GC / WE / WF / WG / OTH				Pass?	Circle ONE: No (U/D) / No (U) / Yes (S/F) / Yes / ??				
Vertical?	Y / N / NA	EF required?	Y / N	Photos		Contact				
Notes										
ID		Easting		Northing						
Type	Circle ANY: BR / CU / DA / FC / FD / FS / FT / GC / WE / WF / WG / OTH				Pass?	Circle ONE: No (U/D) / No (U) / Yes (S/F) / Yes / ??				
Vertical?	Y / N / NA	EF required?	Y / N	Photos		Contact				
Notes										
CHANNEL / BANK MODIFICATIONS										
ID		Easting		Northing		Location	Circle ANY: Left Bk / Right Bk / Bed			
Type	Circle ANY: CD / CR / CW / FP / GA / HP / PI / RE / RR / SN / UC / OTH				Effectiveness	Circle ONE: Effective / Ineffective / Not known				
Downstream effect ?	Y / N	Approx. age	..... / Not known		Previous attempts	0 / 1 / 2 / > 2 / Not known				
Length (m)		Photos		Contact						
Notes										
ID		Easting		Northing		Location	Circle ANY: Left Bk / Right Bk / Bed			
Type	Circle ANY: CD / CR / CW / FP / GA / HP / PI / RE / RR / SN / UC / OTH				Effectiveness	Circle ONE: Effective / Ineffective / Not known				
Downstream effect ?	Y / N	Approx. age	..... / Not known		Previous attempts	0 / 1 / 2 / > 2 / Not known				
Length (m)		Photos		Contact						

Notes							
SPAWNING LOCATIONS							
ID	Easting	Northing	Area (m2)	Useable (%)			
Suitability (G/P)	SA..... TR.....	Washout?	Y / N / ?	Notes			
ID	Easting	Northing	Area (m2)	Useable (%)			
Suitability (G/P)	SA..... TR.....	Washout?	Y / N / ?	Notes			
ID	Easting	Northing	Area (m2)	Useable (%)			
Suitability (G/P)	SA..... TR.....	Washout?	Y / N / ?	Notes			
POLLUTION, OBSTACLES, MODIFICATIONS AND SPAWNING CONT'D ON PAGE							

POLLUTION, OBSTACLES, MODIFICATIONS AND SPAWNING CONT'D						PAGE	
ID	Uise 1	River	Abhainn Ghlas	Date	31.10.2022		
POLLUTION POINTS							
ID	Easting	Northing	Time				
Type	Circle ONE: FE / FR / IN / RD / SE / SD / ?? / OTH					Status	Potential / Actual
Dead fish?	Y / N	Photos	Contact				
Notes							
ID	Easting	Northing	Time				
Type	Circle ONE: FE / FR / IN / RD / SE / SD / ?? / OTH					Status	Potential / Actual
Dead fish?	Y / N	Photos	Contact				
Notes							
OBSTACLES							
ID	Easting	Northing					
Type	Circle ANY: BR / CU / DA / FC / FD / FS / FT / GC / WE / WF / WG / OTH				Pass?	Circle ONE: No (U/D) / No (U) / Yes (S/F) / Yes / ??	
Vertical?	Y / N / NA	EF required?	Y / N	Photos	Contact		
Notes							
ID	Easting	Northing					
Type	Circle ANY: BR / CU / DA / FC / FD / FS / FT / GC / WE / WF / WG / OTH				Pass?	Circle ONE: No (U/D) / No (U) / Yes (S/F) / Yes / ??	
Vertical?	Y / N / NA	EF required?	Y / N	Photos	Contact		
Notes							
CHANNEL / BANK MODIFICATIONS							
ID	Easting	Northing	Location	Circle ANY: Left Bk / Right Bk / Bed			
Type	Circle ANY: CD / CR / CW / FP / GA / HP / PI / RE / RR / SN / UC / OTH				Effectiveness	Circle ONE: Effective / Ineffective / Not known	
Downstream effect ?	Y / N	Approx. age	..... / Not known	Previous attempts	0 / 1 / 2 / > 2 / Not known		
Length (m)	Photos	Contact					

Notes							
ID	Easting	Northing	Location		Circle ANY: Left Bk / Right Bk / Bed		
Type	Circle ANY: CD / CR / CW / FP / GA / HP / PI / RE / RR / SN / UC / OTH			Effectiveness	Circle ONE: Effective / Ineffective / Not known		
Downstream effect ?	Y / N	Approx. age	..... / Not known	Previous attempts	0 / 1 / 2 / > 2 / Not known		
Length (m)	Photos	Contact					
Notes							
SPAWNING LOCATIONS							
ID	Easting	Northing	Area (m2)	Useable (%)			
Suitability (G/P)	SA..... TR.....	Washout?	Y / N / ?	Notes			
ID	Easting	Northing	Area (m2)	Useable (%)			
Suitability (G/P)	SA..... TR.....	Washout?	Y / N / ?	Notes			
ID	Easting	Northing	Area (m2)	Useable (%)			
Suitability (G/P)	SA..... TR.....	Washout?	Y / N / ?	Notes			
POLLUTION, OBSTACLES, MODIFICATIONS AND SPAWNING CONT'D ON PAGE							

Appendix E Eisgein Habitat Survey - Uise 2

SFCC HABITAT SURVEY VERSION 3.0 NOVEMBER 2013																		
GENERAL INFORMATION																		
ID	Uise 2	River	Abhainn Scrihascro					Altitude (m)	46	Date	31.10.2022							
DownstE (m)		DownstN (m)		Conductivity	80													
Water level			Circle ONE: Dry / Low / Medium / High															
Surveyor	Name: Paul Hopper						Proprietors											
	Accreditation Code:						Notes		U/S end of Site Co-ordinates: 131571 913678									
CHANNEL DATA																		
Wet width (m)	1.3	Bed width (m)	1.3	Bank width (m)	1.8			Mature islands(n)	0									
WATER DEPTHS (% OF SURVEY STRETCH WETTED AREA)																		
0-20 cm	0		21-40 cm	90			41-80 cm	10			>80 cm	0						
SUBSTRATE (% OF SURVEY STRETCH WETTED AREA)																		
HO	0	SI	0	SA	0	GR	5	PE	25	CO	50	BO	20	BE	0	OB	0	
Instream veg (%)	40			Silted?	Y / N					Iron deposits (%)	0		LWD	0				
Substrate	Circle ONE of EACH: Stable / Unstable AND Compacted / Partly / Uncompacted																	
Substrate notes																		
CHANNEL FEATURES (% OF SURVEY STRETCH LENGTH)																		
Braided channels (%)	0						Braids stable?	Y / N / NA										
Channel feature notes																		
FLOW (% OF SURVEY STRETCH WETTED AREA)																		
SM	0	DP	0	SP	10	DG	0	SG	70	RU	10	RI	10	TO	0			
Flow notes																		
CANOPY COVER (% OF SURVEY STRETCH WETTED AREA)																		
Canopy cover (%)	0		Canopy cover notes															
LEFT BANK (looking DOWNSTREAM)																		
BANKSIDE FISH COVER (% OF BANK LENGTH)																		
Fish Cover (%)	100		Type	Circle ANY: DR (UC) MA (RT)/(RK) / OTH..... OR NONE														
Cover Notes																		
GENERAL BANKSIDE STATUS (% OF BANK LENGTH)																		
Riparian buffer zone (m)	0		Grazing intensity (bankface & buffer zone)	Circle ONE: None / Light / Moderate / Intense														
Grazers (bankface & buffer zone)			Circle ANY: Deer Livestock / Rabbits OR None															
Grazing exclusion feature(s) present	Circle ANY OR 'None': Deer fence / Stock fence / Wall / Hedge / Rabbit mesh / Other OR None												Exclusion upgrade required (m)					
Predominant bankface vegetation			Circle ONE: Bare / Uniform Simple / Complex															
Predominant buffer zone vegetation			Circle ONE: Bare / Uniform Simple / Complex															
Collapse (%)	Severe:.....	Moderate:.....	Light:.....	Erosion (%)		Severe:.....	Moderate:.....	Light:.....										
Trampling (%)	Severe:.....	Moderate:.....	Light:.....	Bankside notes		No collapse, erosion or trampling at site												
Side bars (%)	0	Side bars stable?	Y / N / NA		Point bars (%)	0	Point bars stable?	Y / N / NA										
RIPARIAN ZONE																		
Overhanging boughs (% of bank length - trees and shrubs)	0		Predominant overhanging trees	Circle ONE: Deciduous / Evergreen None														

Predominant land use (50m from banktop)	Circle ONE: AR / BL / CP / FW / GP / IG / IN / (MH) / NC / OR / OW / RD / RP / RS / SC / SU / TH / TL / WL		
Other land uses (50m from banktop)	Circle ANY (EXCLUDING category already circled above) OR 'NA': AR / BL / CP / FW / GP / IG / IN / MH / NC / OR / OW / RD / RP / RS / SC / SU / TH / TL / WL OR (NA)		
Presence of young plantations	Circle ANY: Deciduous / Coniferous / Mixed OR None		
Conifer planting: F&W guidelines?	Y / N / (NA)	Riparian notes	

ID	Uise 2	River	Abhainn Scrihascro	Date	31.10.2022		
RIGHT BANK (looking DOWNSTREAM)							
BANKSIDE FISH COVER (% OF BANK LENGTH)							
Fish Cover (%)	100	Type	Circle ANY: DR / (UC) / MA / (RT) / (RK) / OTH..... OR NONE				
Cover Notes							
GENERAL BANKSIDE STATUS (% OF BANK LENGTH)							
Riparian buffer zone (m)	0	Grazing intensity (bankface & buffer zone)	Circle ONE: None / (Light) / Moderate / Intense				
Grazers (bankface & buffer zone)	Circle ANY: (Deer) / (Livestock) / Rabbits OR None						
Grazing exclusion feature(s) present	Circle ANY OR 'None': Deer fence / Stock fence / Wall / Hedge / Rabbit mesh / Other OR (None)				Exclusion upgrade required (m)	0	
Predominant bankface vegetation	Circle ONE: Bare / Uniform / (Simple) / Complex						
Predominant buffer zone vegetation	Circle ONE: Bare / Uniform / (Simple) / Complex						
Collapse (%)	Severe:.....	Moderate:.....	Light:.....	Erosion (%)	Severe:..... Moderate:..... Light:.....		
Trampling (%)	Severe:.....	Moderate:.....	Light:.....	Bankside notes	No Collapse, Erosion or Trampling at site		
Side bars (%)	0	Side bars stable?	Y / N / (NA)	Point bars (%)	0	Point bars stable?	Y / N / (NA)
RIPARIAN ZONE							
Overhanging boughs (% of bank length - trees and shrubs)	0	Predominant overhanging trees	Circle ONE: Deciduous / Evergreen / (None)				
Predominant land use (50m from banktop)	Circle ONE: AR / BL / CP / FW / GP / IG / IN / (MH) / NC / OR / OW / RD / RP / RS / SC / SU / TH / TL / WL						
Other land uses (50m from banktop)	Circle ANY (EXCLUDING category already circled above) OR 'NA': AR / BL / CP / FW / GP / IG / IN / MH / NC / OR / OW / RD / RP / RS / SC / SU / TH / TL / WL OR (NA)						
Presence of young plantations	Circle ANY: Deciduous / Coniferous / Mixed OR (None)						
Conifer planting: F&W guidelines?	Y / N / (NA)	Riparian notes					
PART E: PHOTOGRAPHS							
PART F: POLLUTION POINTS							
ID		Easting		Northing		Time	
Type	Circle ONE: FE / FR / IN / RD / SE / SD / ?? / OTH					Status	Potential / Actual
Dead fish?	Y / N	Photos		Contact			
Notes	No Pollution Points						
PART G: OBSTACLES							
ID		Easting		Northing			
Type	Circle ANY: BR / CU / DA / FC / FD / FS / FT / GC / WE / WF / WG / OTH				Pass?	Circle ONE: No (U/D) / No (U) / Yes (S/F) / Yes / ??	
Vertical?	Y / N / NA	EF required?	Y / N	Photos		Contact	
Notes	No Obstacles						

PART H: CHANNEL / BANK MODIFICATIONS									
ID		Easting		Northing		Location	Circle ANY: Left Bk / Right Bk / Bed		
Type	Circle ANY: CD / CR / CW / FP / GA / HP / PI / RE / RR / SN / UC / OTH					Effectiveness	Circle ONE: Effective / Ineffective / Not known		
Downstream effect ?	Y / N	Approx. age	..... / Not known		Previous attempts	0 / 1 / 2 / > 2 / Not known			
Length (m)		Photos		Contact					
Notes	No Channel or Bank Modifications								
PART I: SPAWNING LOCATIONS									
ID	Uise 2 (a)	Easting	131583	Northing	913673	Area (m2)	6	Useable (%)	55
Suitability (G/P)	SA: Y	TR: Y	Washout?	Y / N ?	Notes	Photos taken			
POLLUTION, OBSTACLES, MODIFICATIONS AND SPAWNING CONT'D ON PAGE 3									

POLLUTION, OBSTACLES, MODIFICATIONS AND SPAWNING CONT'D							PAGE		
ID	Uise 2	River	Abhainn Scrihascro			Date	31.10.2022		
POLLUTION POINTS									
ID		Easting		Northing		Time			
Type	Circle ONE: FE / FR / IN / RD / SE / SD / ?? / OTH					Status	Potential / Actual		
Dead fish?	Y / N	Photos		Contact					
Notes									
ID		Easting		Northing		Time			
Type	Circle ONE: FE / FR / IN / RD / SE / SD / ?? / OTH					Status	Potential / Actual		
Dead fish?	Y / N	Photos		Contact					
Notes									
OBSTACLES									
ID		Easting		Northing					
Type	Circle ANY: BR / CU / DA / FC / FD / FS / FT / GC / WE / WF / WG / OTH					Pass?	Circle ONE: No (U/D) / No (U) / Yes (S/F) / Yes / ??		
Vertical?	Y / N / NA	EF required?	Y / N	Photos		Contact			
Notes									
ID		Easting		Northing					
Type	Circle ANY: BR / CU / DA / FC / FD / FS / FT / GC / WE / WF / WG / OTH					Pass?	Circle ONE: No (U/D) / No (U) / Yes (S/F) / Yes / ??		
Vertical?	Y / N / NA	EF required?	Y / N	Photos		Contact			
Notes									
CHANNEL / BANK MODIFICATIONS									
ID		Easting		Northing		Location	Circle ANY: Left Bk / Right Bk / Bed		
Type	Circle ANY: CD / CR / CW / FP / GA / HP / PI / RE / RR / SN / UC / OTH					Effectiveness	Circle ONE: Effective / Ineffective / Not known		
Downstream effect ?	Y / N	Approx. age	..... / Not known		Previous attempts	0 / 1 / 2 / > 2 / Not known			
Length (m)		Photos		Contact					

Notes							
ID	Easting	Northing	Location		Circle ANY: Left Bk / Right Bk / Bed		
Type	Circle ANY: CD / CR / CW / FP / GA / HP / PI / RE / RR / SN / UC / OTH			Effectiveness	Circle ONE: Effective / Ineffective / Not known		
Downstream effect ?	Y / N	Approx. age	..... / Not known	Previous attempts	0 / 1 / 2 / > 2 / Not known	
Length (m)	Photos	Contact					
Notes							
SPAWNING LOCATIONS							
ID	Easting	Northing	Area (m2)	Useable (%)			
Suitability (G/P)	SA..... TR.....	Washout?	Y / N / ?	Notes			
ID	Easting	Northing	Area (m2)	Useable (%)			
Suitability (G/P)	SA..... TR.....	Washout?	Y / N / ?	Notes			
ID	Easting	Northing	Area (m2)	Useable (%)			
Suitability (G/P)	SA..... TR.....	Washout?	Y / N / ?	Notes			
POLLUTION, OBSTACLES, MODIFICATIONS AND SPAWNING CONT'D ON PAGE							

Appendix F Eisgein Habitat Survey - Uise 3

SFCC HABITAT SURVEY VERSION 3.0 NOVEMBER 2013																		
GENERAL INFORMATION																		
ID	Uise 3	River	Allt Cheothadail					Altitude (m)	20	Date	31.10.2022							
DownstE (m)		DownstN (m)		Conductivity	82													
		Water level	Circle ONE: Dry / Low / Medium / High															
Surveyor	Name: Paul Hopper Accreditation Code:					Proprietors												
						Notes	U/S end of site co-ordinates: 130783 912472											
CHANNEL DATA																		
Wet width (m)	1.5	Bed width (m)	1.5	Bank width (m)	2.6	Mature islands(n)	0											
WATER DEPTHS (% OF SURVEY STRETCH WETTED AREA)																		
0-20 cm	10	21-40 cm	55	41-80 cm	35	>80 cm	0											
SUBSTRATE (% OF SURVEY STRETCH WETTED AREA)																		
HO	0	SI	0	SA	0	GR	10	PE	15	CO	20	BO	50	BE	5	OB	0	
Instream veg (%)	0		Silted?	Y / N					Iron deposits (%)	0		LWD	0					
Substrate	Circle ONE of EACH: Stable / Unstable AND Compacted / Partly / Uncompacted																	
Substrate notes																		
CHANNEL FEATURES (% OF SURVEY STRETCH LENGTH)																		
Braided channels (%)	0					Braids stable?	Y / N / NA											
Channel feature notes																		
FLOW (% OF SURVEY STRETCH WETTED AREA)																		
SM	0	DP	0	SP	0	DG	0	SG	20	RU	0	RI	15	TO	65			
Flow notes																		
CANOPY COVER (% OF SURVEY STRETCH WETTED AREA)																		
Canopy cover (%)	0		Canopy cover notes															
LEFT BANK (looking DOWNSTREAM)																		
BANKSIDE FISH COVER (% OF BANK LENGTH)																		
Fish Cover (%)	100		Type	Circle ANY: DR / UC / MA / RT / RK / OTH Culvert OR NONE														
Cover Notes																		
GENERAL BANKSIDE STATUS (% OF BANK LENGTH)																		
Riparian buffer zone (m)	0		Grazing intensity (bankface & buffer zone)	Circle ONE: None / Light / Moderate / Intense														
Grazers (bankface & buffer zone)	Circle ANY: Deer / Livestock / Rabbits OR None																	
Grazing exclusion feature(s) present	Circle ANY OR 'None': Deer fence / Stock fence / Wall / Hedge / Rabbit mesh / Other OR None											Exclusion upgrade required (m)						
Predominant bankface vegetation	Circle ONE: Bare / Uniform / Simple / Complex																	
Predominant buffer zone vegetation	Circle ONE: Bare / Uniform / Simple / Complex																	
Collapse (%)	Severe:.....	Moderate:.....	Light:.....	Erosion (%)	Severe:.....	Moderate:.....	Light:.....											
Trampling (%)	Severe:.....	Moderate:.....	Light:.....	Bankside notes	No Collapse, Erosion or Trampling at site													
Side bars (%)	0	Side bars stable?	Y / N / NA		Point bars (%)	0	Point bars stable?	Y / N / NA										
RIPARIAN ZONE																		
Overhanging boughs (% of bank length - trees and shrubs)	0		Predominant overhanging trees	Circle ONE: Deciduous / Evergreen / None														

Predominant land use (50m from banktop)	Circle ONE: AR / BL / CP / FW / GP / IG / IN / MH / NC / OR / OW / RD / RP / RS / SC / SU / TH / TL / WL		
Other land uses (50m from banktop)	Circle ANY (EXCLUDING category already circled above) OR 'NA': AR / BL / CP / FW / GP / IG / IN / MH / NC / OR / OW / RD / RP / RS / SC / SU / TH / TL / WL OR NA		
Presence of young plantations	Circle ANY: Deciduous / Coniferous / Mixed OR None		
Conifer planting: F&W guidelines?	Y / N / NA	Riparian notes	

ID	Uise 3	River	Allt Cheothadail	Date	31.10.2022
RIGHT BANK (looking DOWNSTREAM)					
BANKSIDE FISH COVER (% OF BANK LENGTH)					
Fish Cover (%)	80	Type	Circle ANY: DR / UC / MA / RT / RK / OTH Culvert..... OR NONE		
Cover Notes					
GENERAL BANKSIDE STATUS (% OF BANK LENGTH)					
Riparian buffer zone (m)	0	Grazing intensity (bankface & buffer zone)	Circle ONE : None / Light / Moderate / Intense		
Grazers (bankface & buffer zone)	Circle ANY: Deer / Livestock / Rabbits OR None				
Grazing exclusion feature(s) present	Deer fence / Stock fence / Wall / Hedge / Rabbit mesh / Other OR None			Exclusion upgrade required (m)	0
Predominant bankface vegetation	Circle ONE: Bare / Uniform / Simple / Complex				
Predominant buffer zone vegetation	Circle ONE: Bare / Uniform / Simple / Complex				
Collapse (%)	Severe:..... Moderate:..... Light:.....	Erosion (%)	Severe:..... Moderate:..... Light:.....		
Trampling (%)	Severe:..... Moderate:..... Light:.....	Bankside notes	No Collapse, Erosion or Trampling at site		
Side bars (%)	0	Side bars stable?	Y / N / NA	Point bars (%)	0
		Point bars stable?	Y / N / NA		
RIPARIAN ZONE					
Overhanging boughs (% of bank length - trees and shrubs)	0	Predominant overhanging trees	Circle ONE: Deciduous / Evergreen / None		
Predominant land use (50m from banktop)	Circle ONE: AR / BL / CP / FW / GP / IG / IN / MH / NC / OR / OW / RD / RP / RS / SC / SU / TH / TL / WL				
Other land uses (50m from banktop)	Circle ANY (EXCLUDING category already circled above) OR 'NA': AR / BL / CP / FW / GP / IG / IN / MH / NC / OR / OW / RD / RP / RS / SC / SU / TH / TL / WL OR NA				
Presence of young plantations	Circle ANY: Deciduous / Coniferous / Mixed OR None				
Conifer planting: F&W guidelines?	Y / N / NA	Riparian notes			
PART E: PHOTOGRAPHS					
PART F: POLLUTION POINTS					
ID		Easting		Northing	
Type	Circle ONE: FE / FR / IN / RD / SE / SD / ?? / OTH			Status	Potential / Actual
Dead fish?	Y / N	Photos		Contact	
Notes					
PART G: OBSTACLES					
ID	Uise 3(a)	Easting	130798	Northing	912441
Type	Circle ANY: BR / CU / DA / FC / FD / FS / FT / GC / WE / WF / WG / OTH			Pass?	Circle ONE: No (U/D) / No (U) / Yes (S/F) / Yes ??
Vertical?	Y / N / NA	EF required?	Y / N	Photos	Yes
		Contact			

Notes	Culvert for footpath. (EF not required as fish have been found when previously surveyed) Photos taken								
PART H: CHANNEL / BANK MODIFICATIONS									
ID		Easting		Northing		Location	Circle ANY: Left Bk / Right Bk / Bed		
Type	Circle ANY: CD / CR / CW / FP / GA / HP / PI / RE / RR / SN / UC / OTH					Effectiveness	Circle ONE: Effective / Ineffective / Not known		
Downstream effect ?	Y / N	Approx. age	..... / Not known		Previous attempts	0 / 1 / 2 / > 2 / Not known		
Length (m)		Photos		Contact					
Notes									
PART I: SPAWNING LOCATIONS									
ID	Uise 3 (b)	Eastin	130801	Northing	912428	Area (m2)	3	Useable (%)	15
Suitability (G/P)	SA..	Y	TR..	Y	Washout?	Y	N / ?	Notes	Photos taken
POLLUTION, OBSTACLES, MODIFICATIONS AND SPAWNING CONT'D ON PAGE 3									

POLLUTION, OBSTACLES, MODIFICATIONS AND SPAWNING CONT'D							PAGE	
ID	Uise 3	River	Allt Cheothadail			Date	31.10.2022	
POLLUTION POINTS								
ID		Easting		Northing		Time		
Type	Circle ONE: FE / FR / IN / RD / SE / SD / ?? / OTH					Status	Potential / Actual	
Dead fish?	Y / N	Photos		Contact				
Notes								
ID		Easting		Northing		Time		
Type	Circle ONE: FE / FR / IN / RD / SE / SD / ?? / OTH					Status	Potential / Actual	
Dead fish?	Y / N	Photos		Contact				
Notes								
OBSTACLES								
ID		Easting		Northing		Pass?	Circle ONE: No (U/D) / No (U) / Yes (S/F) / Yes / ??	
Type	Circle ANY: BR / CU / DA / FC / FD / FS / FT / GC / WE / WF / WG / OTH					Pass?	Circle ONE: No (U/D) / No (U) / Yes (S/F) / Yes / ??	
Vertical?	Y / N / NA	EF required?	Y / N	Photos		Contact		
Notes								
ID		Easting		Northing		Pass?	Circle ONE: No (U/D) / No (U) / Yes (S/F) / Yes / ??	
Type	Circle ANY: BR / CU / DA / FC / FD / FS / FT / GC / WE / WF / WG / OTH					Pass?	Circle ONE: No (U/D) / No (U) / Yes (S/F) / Yes / ??	
Vertical?	Y / N / NA	EF required?	Y / N	Photos		Contact		
Notes								
CHANNEL / BANK MODIFICATIONS								
ID		Easting		Northing		Location	Circle ANY: Left Bk / Right Bk / Bed	
Type	Circle ANY: CD / CR / CW / FP / GA / HP / PI / RE / RR / SN / UC / OTH					Effectiveness	Circle ONE: Effective / Ineffective / Not known	
Downstream effect ?	Y / N	Approx. age	..... / Not known		Previous attempts	0 / 1 / 2 / > 2 / Not known		

Length (m)		Photos		Contact				
Notes								
ID		Easting		Northing		Location	Circle ANY: Left Bk / Right Bk / Bed	
Type	Circle ANY: CD / CR / CW / FP / GA / HP / PI / RE / RR / SN / UC / OTH			Effectiveness	Circle ONE: Effective / Ineffective / Not known			
Downstream effect ?	Y / N	Approx. age	..... / Not known		Previous attempts	0 / 1 / 2 / > 2 / Not known		
Length (m)		Photos		Contact				
Notes								
SPAWNING LOCATIONS								
ID		Easting		Northing		Area (m2)		Useable (%)
Suitability (G/P)	SA..... TR.....		Washout?	Y / N / ?		Notes		
ID		Easting		Northing		Area (m2)		Useable (%)
Suitability (G/P)	SA..... TR.....		Washout?	Y / N / ?		Notes		
ID		Easting		Northing		Area (m2)		Useable (%)
Suitability (G/P)	SA..... TR.....		Washout?	Y / N / ?		Notes		
POLLUTION, OBSTACLES, MODIFICATIONS AND SPAWNING CONT'D ON PAGE								

Appendix G Eisgein Habitat Survey - Uise 4

SFCC HABITAT SURVEY VERSION 3.0 NOVEMBER 2013																		
GENERAL INFORMATION																		
ID	Uise 4	River	Abhainn Cheothadail					Altitude (m)	35	Date	31.10.2022							
DownstE (m)		DownstN (m)		Conductivity	86													
Water level			Circle ONE: Dry / Low / Medium / High															
Surveyor	Name: Paul Hopper						Proprietors											
	Accreditation Code:						Notes		U/S end of site Co-ordinates: 130281 912279									
CHANNEL DATA																		
Wet width (m)	6.6	Bed width (m)	6.6	Bank width (m)	7.4			Mature islands(n)	0									
WATER DEPTHS (% OF SURVEY STRETCH WETTED AREA)																		
0-20 cm	0		21-40 cm	30		41-80 cm	70		>80 cm	0								
SUBSTRATE (% OF SURVEY STRETCH WETTED AREA)																		
HO	5	SI	0	SA	5	GR	0	PE	0	CO	25	BO	55	BE	10	OB	0	
Instream veg (%)	5		Silted?	Y / N				Iron deposits (%)	0		LWD							
Substrate	Circle ONE of EACH: Stable / Unstable AND Compacted / Partly / Uncompacted																	
Substrate notes																		
CHANNEL FEATURES (% OF SURVEY STRETCH LENGTH)																		
Braided channels (%)	0						Braids stable?	Y / N / NA										
Channel feature notes																		
FLOW (% OF SURVEY STRETCH WETTED AREA)																		
SM	5	DP	0	SP	0	DG	0	SG	30	RU	25	RI	40	TO	0			
Flow notes																		
CANOPY COVER (% OF SURVEY STRETCH WETTED AREA)																		
Canopy cover (%)	0		Canopy cover notes															
LEFT BANK (looking DOWNSTREAM)																		
BANKSIDE FISH COVER (% OF BANK LENGTH)																		
Fish Cover (%)	80		Type	Circle ANY: DR / UC / MA / RT / RK / OTH..... OR NONE														
Cover Notes																		
GENERAL BANKSIDE STATUS (% OF BANK LENGTH)																		
Riparian buffer zone (m)		Grazing intensity (bankface & buffer zone)	Circle ONE: None / Light / Moderate / Intense															
Grazers (bankface & buffer zone)	Circle ANY: Deer / Livestock / Rabbits OR None																	
Grazing exclusion feature(s) present	Circle ANY OR 'None': Deer fence / Stock fence / Wall / Hedge / Rabbit mesh / Other OR None												Exclusion upgrade required (m)	N				
Predominant bankface vegetation	Circle ONE: Bare / Uniform / Simple / Complex																	
Predominant buffer zone vegetation	Circle ONE: Bare / Uniform / Simple / Complex																	
Collapse (%)	Severe:.....	Moderate:.....	Light:.....	Erosion (%)	Severe:.....	Moderate:.....	Light:.....											
Trampling (%)	Severe:.....	Moderate:.....	Light:.....	Bankside notes	No Collapse, Erosion or Trampling at site													
Side bars (%)	0	Side bars stable?	Y / N / NA		Point bars (%)	0	Point bars stable?	Y / N / NA										
RIPARIAN ZONE																		
Overhanging boughs (% of bank length - trees and shrubs)	0		Predominant overhanging trees	Circle ONE: Deciduous / Evergreen / None														

Predominant land use (50m from banktop)	Circle ONE: AR / BL / CP / FW / GP / IG / IN / (MH) / NC / OR / OW / RD / RP / RS / SC / SU / TH / TL / WL		
Other land uses (50m from banktop)	Circle ANY (EXCLUDING category already circled above) OR 'NA': AR / BL / CP / FW / GP / IG / IN / MH / NC / OR / OW / RD / RP / RS / SC / SU / TH / TL / WL OR (NA)		
Presence of young plantations	Circle ANY: Deciduous / Coniferous / Mixed OR (None)		
Conifer planting: F&W guidelines?	Y / N / (NA)	Riparian notes	

ID	Uise 4	River	Abhainn Cheothadail	Date	31.10.2022		
RIGHT BANK (looking DOWNSTREAM)							
BANKSIDE FISH COVER (% OF BANK LENGTH)							
Fish Cover (%)	80	Type	Circle ANY: DR / (UC) / MA / RT / (RK) / OTH..... OR NONE				
Cover Notes							
GENERAL BANKSIDE STATUS (% OF BANK LENGTH)							
Riparian buffer zone (m)	0	Grazing intensity (bankface & buffer zone)	Circle ONE: None / (Light) / Moderate / Intense				
Grazers (bankface & buffer zone)	Circle ANY: (Deer) / (Livestock) / Rabbits OR None						
Grazing exclusion feature(s) present	Circle ANY OR 'None': Deer fence / Stock fence / Wall / Hedge / Rabbit mesh / Other OR (None)				Exclusion upgrade required (m)	0	
Predominant bankface vegetation	Circle ONE: Bare / Uniform / (Simple) / Complex						
Predominant buffer zone vegetation	Circle ONE: Bare / Uniform / (Simple) / Complex						
Collapse (%)	Severe:..... Moderate:..... Light:.....	Erosion (%)	Severe:..... Moderate:..... Light:.....				
Trampling (%)	Severe:..... Moderate:..... Light:.....	Bankside notes	No Collapse, Erosion or Trampling at site				
Side bars (%)	0	Side bars stable?	Y / N / (NA)	Point bars (%)	0	Point bars stable?	Y / N / (NA)
RIPARIAN ZONE							
Overhanging boughs (% of bank length - trees and shrubs)		Predominant overhanging trees	Circle ONE: Deciduous / Evergreen / (None)				
Predominant land use (50m from banktop)	Circle ONE: AR / BL / CP / FW / GP / IG / IN / (MH) / NC / OR / OW / RD / RP / RS / SC / SU / TH / TL / WL						
Other land uses (50m from banktop)	Circle ANY (EXCLUDING category already circled above) OR 'NA': AR / BL / CP / FW / GP / IG / IN / MH / NC / OR / OW / RD / RP / RS / SC / SU / TH / TL / WL OR (NA)						
Presence of young plantations	Circle ANY: Deciduous / Coniferous / Mixed OR (None)						
Conifer planting: F&W guidelines?	Y / N / (NA)	Riparian notes					
PART E: PHOTOGRAPHS							
PART F: POLLUTION POINTS							
ID		Easting		Northing		Time	
Type	Circle ONE: FE / FR / IN / RD / SE / SD / ?? / OTH.....				Status	Potential / Actual	
Dead fish?	Y / N	Photos		Contact			
Notes							
PART G: OBSTACLES							
ID		Easting		Northing			
Type	Circle ANY: BR / CU / DA / FC / FD / FS / FT / GC / WE / WF / WG / OTH			Pass?	Circle ONE: No (U/D) / No (U) / Yes (S/F) / Yes / ??		
Vertical?	Y / N / NA	EF required?	Y / N	Photos		Contact	

Notes							
PART H: CHANNEL / BANK MODIFICATIONS							
ID		Easting		Northing		Location	Circle ANY: Left Bk / Right Bk / Bed
Type	Circle ANY: CD / CR / CW / FP / GA / HP / PI / RE / RR / SN / UC / OTH					Effectiveness	Circle ONE: Effective / Ineffective / Not known
Downstream effect ?	Y / N	Approx. age	..... / Not known		Previous attempts	0 / 1 / 2 / > 2 / Not known	
Length (m)		Photos		Contact			
Notes							
PART I: SPAWNING LOCATIONS							
ID		Easting		Northing		Area (m2)	Useable (%)
Suitability (G/P)	SA.....	TR.....	Washout?	Y / N / ?	Notes		
POLLUTION, OBSTACLES, MODIFICATIONS AND SPAWNING CONT'D ON PAGE 3							

POLLUTION, OBSTACLES, MODIFICATIONS AND SPAWNING CONT'D							PAGE	
ID	Uise 4	River	Abhainn Cheothadail			Date	31.10.2022	
POLLUTION POINTS								
ID		Easting		Northing		Time		
Type	Circle ONE: FE / FR / IN / RD / SE / SD / ?? / OTH					Status	Potential / Actual	
Dead fish?	Y / N	Photos		Contact				
Notes								
ID		Easting		Northing		Time		
Type	Circle ONE: FE / FR / IN / RD / SE / SD / ?? / OTH					Status	Potential / Actual	
Dead fish?	Y / N	Photos		Contact				
Notes								
OBSTACLES								
ID		Easting		Northing				
Type	Circle ANY: BR / CU / DA / FC / FD / FS / FT / GC / WE / WF / WG / OTH					Pass?	Circle ONE: No (U/D) / No (U) / Yes (S/F) / Yes / ??	
Vertical?	Y / N / NA	EF required?	Y / N	Photos		Contact		
Notes								
ID		Easting		Northing				
Type	Circle ANY: BR / CU / DA / FC / FD / FS / FT / GC / WE / WF / WG / OTH					Pass?	Circle ONE: No (U/D) / No (U) / Yes (S/F) / Yes / ??	
Vertical?	Y / N / NA	EF required?	Y / N	Photos		Contact		
Notes								
CHANNEL / BANK MODIFICATIONS								
ID		Easting		Northing		Location	Circle ANY: Left Bk / Right Bk / Bed	
Type	Circle ANY: CD / CR / CW / FP / GA / HP / PI / RE / RR / SN / UC / OTH					Effectiveness	Circle ONE: Effective / Ineffective / Not known	
Downstream effect ?	Y / N	Approx. age	..... / Not known		Previous attempts	0 / 1 / 2 / > 2 / Not known		

Length (m)		Photos		Contact			
Notes							
ID		Easting		Northing		Location	Circle ANY: Left Bk / Right Bk / Bed
Type	Circle ANY: CD / CR / CW / FP / GA / HP / PI / RE / RR / SN / UC / OTH			Effectiveness	Circle ONE: Effective / Ineffective / Not known		
Downstream effect ?	Y / N	Approx. age	..... / Not known		Previous attempts	0 / 1 / 2 / > 2 / Not known	
Length (m)		Photos		Contact			
Notes							
SPAWNING LOCATIONS							
ID		Easting		Northing		Area (m2)	Useable (%)
Suitability (G/P)	SA..... TR.....		Washout?	Y / N / ?		Notes	
ID		Easting		Northing		Area (m2)	Useable (%)
Suitability (G/P)	SA..... TR.....		Washout?	Y / N / ?		Notes	
ID		Easting		Northing		Area (m2)	Useable (%)
Suitability (G/P)	SA..... TR.....		Washout?	Y / N / ?		Notes	
POLLUTION, OBSTACLES, MODIFICATIONS AND SPAWNING CONT'D ON PAGE							

Appendix H Eisgein Habitat Survey - Uise 5

SFCC HABITAT SURVEY VERSION 3.0 NOVEMBER 2013																		
GENERAL INFORMATION																		
ID	Uise 5	River	Abhainn Cheothadail					Altitude (m)	17	Date	31.10.2022							
DownstE (m)		DownstN (m)		Conductivity	76													
		Water level	Circle ONE: Dry / Low / Medium / High															
Surveyor	Name: Paul Hopper						Proprietors											
	Accreditation Code:						Notes		U/S end of site Co-ordinates: 131055 912324									
CHANNEL DATA																		
Wet width (m)	6.4	Bed width (m)	6.4	Bank width (m)	7.2			Mature islands(n)	0									
WATER DEPTHS (% OF SURVEY STRETCH WETTED AREA)																		
0-20 cm	0		21-40 cm	40		41-80 cm	60		>80 cm	0								
SUBSTRATE (% OF SURVEY STRETCH WETTED AREA)																		
HO	0	SI	0	SA	0	GR	20	PE	30	CO	40	BO	10	BE	0	OB	0	
Instream veg (%)	10		Silted?	Y / N				Iron deposits (%)	0		LWD	0						
Substrate	Circle ONE of EACH: Stable / Unstable AND Compacted / Partly / Uncompacted																	
Substrate notes																		
CHANNEL FEATURES (% OF SURVEY STRETCH LENGTH)																		
Braided channels (%)	0						Braids stable?	Y / N / NA										
Channel feature notes																		
FLOW (% OF SURVEY STRETCH WETTED AREA)																		
SM	5	DP	0	SP	0	DG	0	SG	0	RU	80	RI	15	TO	0			
Flow notes																		
CANOPY COVER (% OF SURVEY STRETCH WETTED AREA)																		
Canopy cover (%)	0		Canopy cover notes															
LEFT BANK (looking DOWNSTREAM)																		
BANKSIDE FISH COVER (% OF BANK LENGTH)																		
Fish Cover (%)	90		Type	Circle ANY: DR / UC / MA / RT / RK / OTH..... OR NONE														
Cover Notes																		
GENERAL BANKSIDE STATUS (% OF BANK LENGTH)																		
Riparian buffer zone (m)	0		Grazing intensity (bankface & buffer zone)	Circle ONE: None / Light / Moderate / Intense														
Grazers (bankface & buffer zone)	Circle ANY: Deer / Livestock / Rabbits OR None																	
Grazing exclusion feature(s) present	Deer fence / Stock fence / Wall / Hedge / Rabbit mesh / Other											Circle ANY OR 'None':						Exclusion upgrade required (m)
Predominant bankface vegetation	Circle ONE: Bare / Uniform Simple / Complex																	
Predominant buffer zone vegetation	Circle ONE: Bare / Uniform Simple / Complex																	
Collapse (%)	Severe:.....	Moderate:.....	Light:.....	Erosion (%)	Severe:.....	Moderate:.....	Light:.....											
Trampling (%)	Severe:.....	Moderate:.....	Light:.....	Bankside notes	No Collapse, Erosion or Trampling at site													
Side bars (%)	0	Side bars stable?	Y / N / NA		Point bars (%)	0	Point bars stable?	Y / N / NA										
RIPARIAN ZONE																		
Overhanging boughs (% of bank length - trees and shrubs)	0		Predominant overhanging trees	Circle ONE: Deciduous / Evergreen / None														

Predominant land use (50m from banktop)	Circle ONE: AR / BL / CP / FW / GP / IG / IN / MH / NC / OR / OW / RD / RP / RS / SC / SU / TH / TL / WL		
Other land uses (50m from banktop)	Circle ANY (EXCLUDING category already circled above) OR 'NA': AR / BL / CP / FW / GP / IG / IN / MH / NC / OR / OW / RD / RP / RS / SC / SU / TH / TL / WL OR NA		
Presence of young plantations	Circle ANY: Deciduous / Coniferous / Mixed OR None		
Conifer planting: F&W guidelines?	Y / N / NA	Riparian notes	

ID	Uise 5	River	Abhainn Cheothadail	Date	31.10.2022
RIGHT BANK (looking DOWNSTREAM)					
BANKSIDE FISH COVER (% OF BANK LENGTH)					
Fish Cover (%)	80	Type	Circle ANY: DR UC / MA / RT / RK / OTH..... OR NONE		
Cover Notes					
GENERAL BANKSIDE STATUS (% OF BANK LENGTH)					
Riparian buffer zone (m)	50	Grazing intensity (bankface & buffer zone)	Circle ONE : None Light / Moderate / Intense		
Grazers (bankface & buffer zone)	Circle ANY: Deer / Livestock / Rabbits OR None				
Grazing exclusion feature(s) present	Deer fence	Circle ANY OR 'None': Stock fence / Wall / Hedge / Rabbit mesh / Other OR None		Exclusion upgrade required (m)	0
Predominant bankface vegetation	Circle ONE: Bare / Uniform / Simple / Complex				
Predominant buffer zone vegetation	Circle ONE: Bare / Uniform / Simple / Complex				
Collapse (%)	Severe:..... Moderate:..... Light:.....	Erosion (%)	Severe:..... Moderate:..... Light:.....		
Trampling (%)	Severe:..... Moderate:..... Light:.....	Bankside notes	No Collapse, Erosion or Trampling at site		
Side bars (%)	0	Side bars stable?	Y / N / NA	Point bars (%)	0
		Point bars stable?	Y / N / NA		
RIPARIAN ZONE					
Overhanging boughs (% of bank length - trees and shrubs)	0	Predominant overhanging trees	Circle ONE: Deciduous / Evergreen None		
Predominant land use (50m from banktop)	Circle ONE: AR / BL / CP / FW / GP / IG / IN / MH / NC / OR / OW / RD / RP / RS / SC / SU / TH / TL / WL				
Other land uses (50m from banktop)	Circle ANY (EXCLUDING category already circled above) OR 'NA': AR / BL / CP / FW / GP / IG / IN / MH / NC / OR / OW / RD / RP / RS / SC / SU / TH / TL / WL OR NA				
Presence of young plantations	Circle ANY: Deciduous / Coniferous / Mixed OR None				
Conifer planting: F&W guidelines?	Y / N / NA	Riparian notes			
PART E: PHOTOGRAPHS					
PART F: POLLUTION POINTS					
ID		Easting		Northing	
Type	Circle ONE: FE / FR / IN / RD / SE / SD / ?? / OTH			Status	Potential / Actual
Dead fish?	Y / N	Photos		Contact	
Notes					
PART G: OBSTACLES					
ID		Easting		Northing	
Type	Circle ANY: BR / CU / DA / FC / FD / FS / FT / GC / WE / WF / WG / OTH			Pass?	Circle ONE: No (U/D) / No (U) / Yes (S/F) / Yes / ??
Vertical?	Y / N / NA	EF required?	Y / N	Photos	Contact
Notes					

PART H: CHANNEL / BANK MODIFICATIONS									
ID		Easting		Northing		Location	Circle ANY: Left Bk / Right Bk / Bed		
Type	Circle ANY: CD / CR / CW / FP / GA / HP / PI / RE / RR / SN / UC / OTH					Effectiveness	Circle ONE: Effective / Ineffective / Not known		
Downstream effect ?	Y / N	Approx. age	..... / Not known		Previous attempts	0 / 1 / 2 / > 2 / Not known			
Length (m)		Photos		Contact					
Notes									
PART I: SPAWNING LOCATIONS									
ID	Uise 5 (a)	Easting	131070	Northing	912344	Area (m2)	144	Useable (%)	90
Suitability (G/P)	SA. Y ...	TR. Y ...	Washout?	Y N / ?	Notes	Photos taken			
POLLUTION, OBSTACLES, MODIFICATIONS AND SPAWNING CONT'D ON PAGE 3									

POLLUTION, OBSTACLES, MODIFICATIONS AND SPAWNING CONT'D							PAGE		
ID	Uise 5	River	Abhainn Cheothadail			Date	31.10.2022		
POLLUTION POINTS									
ID		Easting		Northing		Time			
Type	Circle ONE: FE / FR / IN / RD / SE / SD / ?? / OTH					Status	Potential / Actual		
Dead fish?	Y / N	Photos		Contact					
Notes									
ID		Easting		Northing		Time			
Type	Circle ONE: FE / FR / IN / RD / SE / SD / ?? / OTH					Status	Potential / Actual		
Dead fish?	Y / N	Photos		Contact					
Notes									
OBSTACLES									
ID		Easting		Northing					
Type	Circle ANY: BR / CU / DA / FC / FD / FS / FT / GC / WE / WF / WG / OTH					Pass?	Circle ONE: No (U/D) / No (U) / Yes (S/F) / Yes / ??		
Vertical?	Y / N / NA	EF required?	Y / N	Photos		Contact			
Notes									
ID		Easting		Northing					
Type	Circle ANY: BR / CU / DA / FC / FD / FS / FT / GC / WE / WF / WG / OTH					Pass?	Circle ONE: No (U/D) / No (U) / Yes (S/F) / Yes / ??		
Vertical?	Y / N / NA	EF required?	Y / N	Photos		Contact			
Notes									
CHANNEL / BANK MODIFICATIONS									
ID		Easting		Northing		Location	Circle ANY: Left Bk / Right Bk / Bed		
Type	Circle ANY: CD / CR / CW / FP / GA / HP / PI / RE / RR / SN / UC / OTH					Effectiveness	Circle ONE: Effective / Ineffective / Not known		
Downstream effect ?	Y / N	Approx. age	..... / Not known		Previous attempts	0 / 1 / 2 / > 2 / Not known			
Length (m)		Photos		Contact					

Notes							
ID	Easting	Northing	Location		Circle ANY: Left Bk / Right Bk / Bed		
Type	Circle ANY: CD / CR / CW / FP / GA / HP / PI / RE / RR / SN / UC / OTH				Effectiveness	Circle ONE: Effective / Ineffective / Not known	
Downstream effect ?	Y / N	Approx. age	..... / Not known		Previous attempts	0 / 1 / 2 / > 2 / Not known	
Length (m)	Photos	Contact					
Notes							
SPAWNING LOCATIONS							
ID	Easting	Northing	Area (m2)	Useable (%)			
Suitability (G/P)	SA..... TR.....	Washout?	Y / N / ?	Notes			
ID	Easting	Northing	Area (m2)	Useable (%)			
Suitability (G/P)	SA..... TR.....	Washout?	Y / N / ?	Notes			
ID	Easting	Northing	Area (m2)	Useable (%)			
Suitability (G/P)	SA..... TR.....	Washout?	Y / N / ?	Notes			
POLLUTION, OBSTACLES, MODIFICATIONS AND SPAWNING CONT'D ON PAGE							

Appendix I Eisgein Habitat Survey - Uise 6

SFCC HABITAT SURVEY VERSION 3.0 NOVEMBER 2013																		
GENERAL INFORMATION																		
ID	Uise 6	River	Abhainn Cleann Airighean Dhomhnaill					Altitude (m)	14	Date	01.11.2022							
DownstE (m)		DownstN (m)		Conductivity	72													
		Water level	Circle ONE: Dry / Low / Medium															
Surveyor	Name: Paul Hopper Accreditation Code:					Notes	Site Length – 42m U/S end of site Co-ordinates: 129407 910755											
CHANNEL DATA																		
Wet width (m)	9.3	Bed width (m)	10.2	Bank width (m)	11.5	Mature islands(n)	0											
WATER DEPTHS (% OF SURVEY STRETCH WETTED AREA)																		
0-20 cm	5	21-40 cm	10	41-80 cm	45	>80 cm	40											
SUBSTRATE (% OF SURVEY STRETCH WETTED AREA)																		
HO	0	SI	0	SA	0	GR	0	PE	10	CO	10	BO	20	BE	60	OB	0	
Instream veg (%)	0		Silted?	Y / N				Iron deposits (%)	0		LWD	0						
Substrate	Circle ONE of EACH: Stable Unstable AND Compacted / Partly Uncompacted																	
Substrate notes																		
CHANNEL FEATURES (% OF SURVEY STRETCH LENGTH)																		
Braided channels (%)	0					Braids stable?	Y / N / NA											
Channel feature notes																		
FLOW (% OF SURVEY STRETCH WETTED AREA)																		
SM	5	DP	10	SP	0	DG	0	SG	0	RU	30	RI	50	TO	5			
Flow notes																		
CANOPY COVER (% OF SURVEY STRETCH WETTED AREA)																		
Canopy cover (%)	0		Canopy cover notes															
LEFT BANK (looking DOWNSTREAM)																		
BANKSIDE FISH COVER (% OF BANK LENGTH)																		
Fish Cover (%)	40		Type	Circle ANY: DR / UC / MA / RT / RK OTH..... OR NONE														
Cover Notes																		
GENERAL BANKSIDE STATUS (% OF BANK LENGTH)																		
Riparian buffer zone (m)	0		Grazing intensity (bankface & buffer zone)	Circle ONE: None Light / Moderate / Intense														
Grazers (bankface & buffer zone)	Circle ANY: Deer / Livestock / Rabbits OR None																	
Grazing exclusion feature(s) present	Circle ANY OR 'None': Deer fence / Stock fence / Wall / Hedge / Rabbit mesh / Other OR None											Exclusion upgrade required (m)						
Predominant bankface vegetation	Circle ONE: Bare / Uniform / Simple Complex																	
Predominant buffer zone vegetation	Circle ONE: Bare / Uniform / Simple Complex																	
Collapse (%)	Severe:.....	Moderate:.....	Light:.....	Erosion (%)	Severe:.....	Moderate:.....	Light:.....											
Trampling (%)	Severe:.....	Moderate:.....	Light:.....	Bankside notes	No Collapse, Erosion or Trampling at site													
Side bars (%)	0	Side bars stable?	Y / N / NA		Point bars (%)	0	Point bars stable?	Y / N / NA										
RIPARIAN ZONE																		
Overhanging boughs (% of bank length - trees and shrubs)	5		Predominant overhanging trees	Circle ONE: Deciduous / Evergreen / None														

Predominant land use (50m from banktop)	Circle ONE: AR / BL / CP / FW / GP / IG / IN / MH / NC / OR / OW / RD / RP / RS / SC / SU / TH / TL / WL		
Other land uses (50m from banktop)	Circle ANY (EXCLUDING category already circled above) OR 'NA': AR / BL / CP / FW / GP / IG / IN / MH / NC / OR / OW / RD / RP / RS / SC / SU / TH / TL / WL OR NA		
Presence of young plantations	Circle ANY: Deciduous / Coniferous / Mixed OR None		
Conifer planting: F&W guidelines?	Y / N / NA	Riparian notes	

ID	Uise 6	River	Abhainn Cleann Airighean Dhomhnaill		Date	01.11.2022	
RIGHT BANK (looking DOWNSTREAM)							
BANKSIDE FISH COVER (% OF BANK LENGTH)							
Fish Cover (%)	40	Type	Circle ANY: DR / UC / MA / RT / RK / OTH.....			OR NONE	
Cover Notes							
GENERAL BANKSIDE STATUS (% OF BANK LENGTH)							
Riparian buffer zone (m)	0	Grazing intensity (bankface & buffer zone)	Circle ONE : None / Light / Moderate / Intense				
Grazers (bankface & buffer zone)	Circle ANY: Deer / Livestock / Rabbits OR None						
Grazing exclusion feature(s) present	Deer fence / Stock fence / Wall / Hedge / Rabbit mesh / Other OR None					Exclusion upgrade required (m)	0
Predominant bankface vegetation	Circle ONE: Bare / Uniform / Simple / Complex						
Predominant buffer zone vegetation	Circle ONE: Bare / Uniform / Simple / Complex						
Collapse (%)	Severe:.....	Moderate:.....	Light:.....	Erosion (%)	Severe:.....	Moderate:.....	Light:.....
Trampling (%)	Severe:.....	Moderate:.....	Light:.....	Bankside notes	No Collapse, Erosion or Trampling at site		
Side bars (%)	0	Side bars stable?	Y / N / NA	Point bars (%)	0	Point bars stable?	Y / N / NA
RIPARIAN ZONE							
Overhanging boughs (% of bank length - trees and shrubs)	5	Predominant overhanging trees	Circle ONE: Deciduous / Evergreen / None				
Predominant land use (50m from banktop)	Circle ONE: AR / BL / CP / FW / GP / IG / IN / MH / NC / OR / OW / RD / RP / RS / SC / SU / TH / TL / WL						
Other land uses (50m from banktop)	Circle ANY (EXCLUDING category already circled above) OR 'NA': AR / BL / CP / FW / GP / IG / IN / MH / NC / OR / OW / RD / RP / RS / SC / SU / TH / TL / WL OR NA						
Presence of young plantations	Circle ANY: Deciduous / Coniferous / Mixed OR None						
Conifer planting: F&W guidelines?	Y / N / NA	Riparian notes					
PART E: PHOTOGRAPHS							
PART F: POLLUTION POINTS							
ID		Easting		Northing		Time	
Type	Circle ONE: FE / FR / IN / RD / SE / SD / ?? / OTH					Status	Potential / Actual
Dead fish?	Y / N	Photos		Contact			
Notes							
PART G: OBSTACLES							
ID	Uise 6(a)	Easting	129407	Northing	910755		
Type	Circle ANY: BR / CU / DA / FC / FD / FS / FT / GC / WE / WF / WG / OTH			Pass?	Circle ONE: No (U/D) / No (U) / Yes (S/F) / Yes / ??		
Vertical?	Y / N / NA	EF required?	Y / N	Photos	Yes	Contact	

Notes	Photos taken								
PART H: CHANNEL / BANK MODIFICATIONS									
ID		Easting		Northing		Location	Circle ANY: Left Bk / Right Bk / Bed		
Type	Circle ANY: CD / CR / CW / FP / GA / HP / PI / RE / RR / SN / UC / OTH					Effectiveness	Circle ONE: Effective / Ineffective / Not known		
Downstream effect ?	Y / N	Approx. age	..... / Not known		Previous attempts	0 / 1 / 2 / > 2 / Not known		
Length (m)		Photos		Contact					
Notes									
PART I: SPAWNING LOCATIONS									
ID	Uise 6(b)	Easting	129423	Northing	910752	Area (m2)	3	Useable (%)	100
Suitability (G/P)	SA	<input checked="" type="radio"/> Y	TR	<input checked="" type="radio"/> Y	Washout?	<input checked="" type="radio"/> Y	N / ?	Notes	Photos taken
POLLUTION, OBSTACLES, MODIFICATIONS AND SPAWNING CONT'D ON PAGE 3									

POLLUTION, OBSTACLES, MODIFICATIONS AND SPAWNING CONT'D								PAGE	
ID	Uise 6	River	Abhainn Cleann Airighean Dhomhnaill			Date	01.11.2022		
POLLUTION POINTS									
ID		Easting		Northing		Time			
Type	Circle ONE: FE / FR / IN / RD / SE / SD / ?? / OTH					Status	Potential / Actual		
Dead fish?	Y / N	Photos		Contact					
Notes									
ID		Easting		Northing		Time			
Type	Circle ONE: FE / FR / IN / RD / SE / SD / ?? / OTH					Status	Potential / Actual		
Dead fish?	Y / N	Photos		Contact					
Notes									
OBSTACLES									
ID		Easting		Northing					
Type	Circle ANY: BR / CU / DA / FC / FD / FS / FT / GC / WE / WF / WG / OTH					Pass?	Circle ONE: No (U/D) / No (U) / Yes (S/F) / Yes / ??		
Vertical?	Y / N / NA	EF required?	Y / N	Photos		Contact			
Notes									
ID		Easting		Northing					
Type	Circle ANY: BR / CU / DA / FC / FD / FS / FT / GC / WE / WF / WG / OTH					Pass?	Circle ONE: No (U/D) / No (U) / Yes (S/F) / Yes / ??		
Vertical?	Y / N / NA	EF required?	Y / N	Photos		Contact			
Notes									
CHANNEL / BANK MODIFICATIONS									
ID		Easting		Northing		Location	Circle ANY: Left Bk / Right Bk / Bed		
Type	Circle ANY: CD / CR / CW / FP / GA / HP / PI / RE / RR / SN / UC / OTH					Effectiveness	Circle ONE: Effective / Ineffective / Not known		
Downstream effect ?	Y / N	Approx. age	..... / Not known		Previous attempts	0 / 1 / 2 / > 2 / Not known			

Length (m)		Photos		Contact			
Notes							
ID		Easting		Northing		Location	Circle ANY: Left Bk / Right Bk / Bed
Type	Circle ANY: CD / CR / CW / FP / GA / HP / PI / RE / RR / SN / UC / OTH			Effectiveness	Circle ONE: Effective / Ineffective / Not known		
Downstream effect ?	Y / N	Approx. age	..... / Not known		Previous attempts	0 / 1 / 2 / > 2 / Not known	
Length (m)		Photos		Contact			
Notes							
SPAWNING LOCATIONS							
ID		Easting		Northing		Area (m2)	Useable (%)
Suitability (G/P)	SA..... TR.....		Washout?	Y / N / ?		Notes	
ID		Easting		Northing		Area (m2)	Useable (%)
Suitability (G/P)	SA..... TR.....		Washout?	Y / N / ?		Notes	
ID		Easting		Northing		Area (m2)	Useable (%)
Suitability (G/P)	SA..... TR.....		Washout?	Y / N / ?		Notes	
POLLUTION, OBSTACLES, MODIFICATIONS AND SPAWNING CONT'D ON PAGE							