

## **APPENDIX G.4 FISH SURVEY DATA**

Site Code	F1
Date	23/07/11
Grid Reference u/s	W07524 71221
Grid Reference d/s	W07567 71246
Average Width (m)	5
Depth (cm)	10-60
Substrate (order of dominance)	1. Cobble 2. Large rocks 3. Gravel
Flow Type	Riffle 30%, Glide 65%, Pool 5%
Instream Vegetation	Algae <5%
Dominant Bankside Vegetation	Grass, Rush
Estimated Summer Cover of Stream by Bankside Vegetation	<5%
Salmonid Adult Habitat	Good-Fair
Salmonid Nursery Habitat	Good
Salmonid Spawning Habitat	Good-Fair
Lamprey Nursery	None
Lamprey Spawning	Good-Fair
pH	7.1
Conductivity	40
Time (min.)	20
Area fished (m <sup>2</sup> )	310

**Brown Trout**

**Fork Length (cm)**

**Age**

3.5

5.0

5.3

5.4

0+

5.4

5.5

5.5

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9.2

9.4

9.8

10.1

10.2

10.4

10.7

11.3

11.5

11.8

12.0

12.0

12.2

12.5

1+

12.7

12.8

12.8

12.8

13.6

13.9

13.9

13.9

14.1

14.4

14.4

**Brown Trout**

**Fork Length (cm)**

**Age**

14.5

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16.2

17.0

17.2

2+

19.2

19.5

Site Code	F2
Date	23/07/11
Grid Reference u/s	W08986 70718
Grid Reference d/s	W08914 70715
Average Width (m)	1-4
Depth (cm)	5-60
Substrate (order of dominance)	1. Large rocks 2. Cobble 3. Gravel
Flow Type	Riffle 55% Glide 40% Pool 5%
Instream Vegetation	Moss 10%
Dominant Bankside Vegetation	Willow, Bracken
Estimated Summer Cover of Stream by Bankside Vegetation	65%
Salmonid Adult Habitat	Fair
Salmonid Nursery Habitat	Good
Salmonid Spawning Habitat	Good-Fair
Lamprey Nursery	None
Lamprey Spawning	Good-Fair
pH	7.1
Conductivity	40
Time (min.)	15
Area fished (m <sup>2</sup> )	140

**Brown Trout**

<b>Fork Length (cm)</b>	<b>Age</b>
10.5	
10.7	
10.8	
10.9	
11.0	1+
11.5	
11.7	
12.3	
12.4	
<hr/>	
18.8	2+

Site Code	F3
Date	23/07/11
Grid Reference u/s	W09046 70438
Grid Reference d/s	W08969 70466
Average Width (m)	3
Depth (cm)	8-100
Substrate (order of dominance)	1. Large rocks 2. Cobble 3. Gravel 4. Boulders
Flow Type	Riffle 50%, Glide 40%, Pool 10%
Instream Vegetation	None
Dominant Bankside Vegetation	Grass, Bracken
Estimated Summer Cover of Stream by Bankside Vegetation	<5%
Salmonid Adult Habitat	Fair
Salmonid Nursery Habitat	Good
Salmonid Spawning Habitat	Good-Fair
Lamprey Nursery	None
Lamprey Spawning	Good-Fair
pH	7.3
Conductivity	40
Time (min.)	15
Area fished (m <sup>2</sup> )	150

**Brown Trout**

**Fork Length (cm)**

**Age**

5.6

0+

6.2

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9.4

9.5

9.8

10.4

10.8

1+

11.2

11.8

13.6



Site Code	F4
Date	22/07/11
Grid Reference u/s	W08218 70083
Grid Reference d/s	W08312 70085
Average Width (m)	0.5-2.5
Depth (cm)	8-60
Substrate (order of dominance)	1. Large rocks 2. Cobble 3. Bed rock 4. Gravel 5. Sand
Flow Type	Riffle 55%, Chute 25%, Glide 15%, Pool 5%
Instream Vegetation	Algae 10%
Dominant Bankside Vegetation	Grass
Estimated Summer Cover of Stream by Bankside Vegetation	<5%
Salmonid Adult Habitat	Fair
Salmonid Nursery Habitat	Good-Fair
Salmonid Spawning Habitat	Good-Fair
Lamprey Nursery	None
Lamprey Spawning	Good-Fair
pH	7.1
Conductivity	30
Time (min.)	20
Area fished (m <sup>2</sup> )	150

**Brown Trout**

<b>Fork Length (cm)</b>	<b>Age</b>
6.8	0+
8.4	
9.8	
10.3	1+
11.5	
13.2	
16.3	
16.3	2+
17.2	
17.5	

Site Code	F5
Date	22/07/11
Grid Reference u/s	W08082 69631
Grid Reference d/s	W08162 69642
Average Width (m)	0.5-2
Depth (cm)	10-70
Substrate (order of dominance)	1. Cobble 2. Large rocks 3. Gravel 4. Sand
Flow Type	Riffle 70%, Glide 25%, Pool 5%
Instream Vegetation	Algae <5%
Dominant Bankside Vegetation	Grass, Rush
Estimated Summer Cover of Stream by Bankside Vegetation	<5%
Salmonid Adult Habitat	Fair-Poor
Salmonid Nursery Habitat	Good-Fair
Salmonid Spawning Habitat	Good-Fair
Lamprey Nursery	None
Lamprey Spawning	Good-Fair
pH	6.8
Conductivity	30
Time (min.)	20
Area fished (m <sup>2</sup> )	150

**Brown Trout**

**Fork Length (cm)**

**Age**

12.0

1+

Site Code	F6
Date	22/07/11
Grid Reference u/s	W08294 69592
Grid Reference d/s	W08240 69592
Average Width (m)	0.2-1
Depth (cm)	5-40
Substrate (order of dominance)	1. Large rocks 2. Cobble 3. Gravel
Flow Type	Riffle 30%, Glide 65%, Pool 5%
Instream Vegetation	Moss <5%
Dominant Bankside Vegetation	Grass, Rush
Estimated Summer Cover of Stream by Bankside Vegetation	<5%
Salmonid Adult Habitat	None
Salmonid Nursery Habitat	Fair-Poor
Salmonid Spawning Habitat	Poor
Lamprey Nursery	None
Lamprey Spawning	Poor
pH	5.6
Conductivity	20
Time (min.)	7
Area fished (m <sup>2</sup> )	17

No fish captured

Site Code	F7
Date	22/07/11
Grid Reference u/s	W08082 68950
Grid Reference d/s	W08129 68999
Average Width (m)	1-2
Depth (cm)	10-75
Substrate (order of dominance)	1. Cobble 2. Large rocks 3. Gravel 4. Sand
Flow Type	Riffle 60%, Glide 35%, Pool 5%
Instream Vegetation	Algae 10%
Dominant Bankside Vegetation	Grass, Rush
Estimated Summer Cover of Stream by Bankside Vegetation	<5%
Salmonid Adult Habitat	Fair-Poor
Salmonid Nursery Habitat	Good-Fair
Salmonid Spawning Habitat	Fair-Poor
Lamprey Nursery	None
Lamprey Spawning	Fair-Poor
pH	6.7
Conductivity	20
Time (min.)	15
Area fished (m <sup>2</sup> )	104

**Brown Trout**

**Fork Length (cm)**

**Age**

12.0

1+

13.4

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16.2

16.3

17.6

2+

19.8

Site Code	F8
Date	22/07/11
Grid Reference u/s	W08287 68858
Grid Reference d/s	W08245 68843
Average Width (m)	4
Depth (cm)	8-30
Substrate (order of dominance)	1. Large rocks 2. Cobble 3. Gravel
Flow Type	Riffle 30%, Glide 70%
Instream Vegetation	Algae 30%
Dominant Bankside Vegetation	Grass
Estimated Summer Cover of Stream by Bankside Vegetation	<5%
Salmonid Adult Habitat	Fair
Salmonid Nursery Habitat	Good
Salmonid Spawning Habitat	Fair-Poor
Lamprey Nursery	None
Lamprey Spawning	Fair-Poor
pH	7.5
Conductivity	30
Time (min.)	15
Area fished (m <sup>2</sup> )	200

**Brown Trout**

<b>Fork Length (cm)</b>	<b>Age</b>
9.0	
9.0	
9.1	
9.2	
9.5	1+
11.0	
11.3	
11.9	
13.8	
<hr/>	
15.7	2+
18.8	



Site Code	F9
Date	22/07/11
Grid Reference u/s	W08204 68814
Grid Reference d/s	W08234 68842
Average Width (m)	9
Depth (cm)	8-30
Substrate (order of dominance)	1. Large rocks 2. Boulders 3. Cobble 4. Gravel (v. sparse)
Flow Type	Riffle 60%, Glide 40%
Instream Vegetation	Algae 75%
Dominant Bankside Vegetation	Grass, Rush
Estimated Summer Cover of Stream by Bankside Vegetation	<5%
Salmonid Adult Habitat	Good-Fair
Salmonid Nursery Habitat	Good
Salmonid Spawning Habitat	Poor
Lamprey Nursery	None
Lamprey Spawning	Poor
pH	6.9
Conductivity	20
Time (min.)	20
Area fished (m <sup>2</sup> )	400

**Brown Trout**

<b>Fork Length (cm)</b>	<b>Age</b>
9.8	
10.0	
10.7	
12.6	
13.2	
13.5	
13.7	1+
13.9	
13.9	
14.0	
14.5	
14.6	
14.9	
<hr/>	
17.2	2+
18.2	

Site Code	F10
Date	29/07/2015
Grid Reference u/s	W 06337 70803
Grid Reference d/s	W 06415 70871
Average Width (m)	3
Depth (cm)	8-50
Substrate (order of dominance)	1. Large rocks 2. Cobble 3. Gravel
Flow Type	Riffle 45% Glide 40% Pool 15%
Instream Vegetation	Filamentous algae 5%
Dominant Bankside Vegetation	Rush, Molinia
Estimated Summer Cover of Stream by Bankside Vegetation	<5%
Salmonid Adult Habitat	Fair
Salmonid Nursery Habitat	Good-Fair
Salmonid Spawning Habitat	Fair-Poor
Lamprey Nursery	None
Lamprey Spawning	Fair-Poor
Water Clarity	Clear
pH	5.7
Conductivity	40
Time (min.)	30
Area fished (m <sup>2</sup> )	450

**Brown Trout**

<b>Fork Length (cm)</b>	<b>Age</b>
13.9	
13.9	
14.7	
15.0	
15.4	
15.6	2+
15.9	
16.0	
16.7	
17.5	
17.7	
18.9	

**Salmon**

<b>Fork Length (cm)</b>	<b>Age</b>
5.8	
5.9	
6.0	
6.0	
6.2	
6.3	0+
6.5	
6.5	
6.5	
6.9	
7.3	

Site Code	F11
Date	29/07/2015
Grid Reference u/s	W 06558 70998
Grid Reference d/s	W 06618 70999
Average Width (m)	0.5-1.5
Depth (cm)	8-30
Substrate (order of dominance)	1. Large rocks 2. Cobble (Heavily silted)
Flow Type	Riffle 20% Glide 75% Pool 5%
Instream Vegetation	Filamentous algae 50% Silt-slime 50%
Dominant Bankside Vegetation	Rush, Grass
Estimated Summer Cover of Stream by Bankside Vegetation	<5%
Salmonid Adult Habitat	Fair
Salmonid Nursery Habitat	Fair
Salmonid Spawning Habitat	Fair
Lamprey Nursery	None
Lamprey Spawning	Fair
Water Clarity	Slightly turbid
pH	5.2
Conductivity	55
Time (min.)	12
Area fished (m <sup>2</sup> )	80

**Brown Trout**

**Fork Length (cm)**

**Age**

4.7

5.8

0+

6.4

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8.6

8.8

9.8

9.9

10.4

1+

10.5

10.9

11.4

11.8

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13.5

2+

14.0

Site Code	F12
Date	29/07/2015
Grid Reference u/s	W 06929 71228
Grid Reference d/s	W 06952 71216
Average Width (m)	1
Depth (cm)	10-40
Substrate (order of dominance)	1. Cobble 2. Gravel 3. Large rocks 4. Sand
Flow Type	Riffle 45% Glide 45% Pool 10%
Instream Vegetation	None
Dominant Bankside Vegetation	Grass
Estimated Summer Cover of Stream by Bankside Vegetation	<5%
Salmonid Adult Habitat	Fair-Poor
Salmonid Nursery Habitat	Fair
Salmonid Spawning Habitat	Good-Fair
Lamprey Nursery	None
Lamprey Spawning	Good-Fair
Water Clarity	Clear
pH	5.6
Conductivity	47
Time (min.)	8
Area fished (m <sup>2</sup> )	45

**Brown Trout**

**Fork Length (cm)**

**Age**

6.1

0+

6.5

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13.9

14.0

2+

15.8



Site Code	F13
Date	29/07/2015
Grid Reference u/s	W 07062 71275
Grid Reference d/s	W 07067 71241
Average Width (m)	1.5
Depth (cm)	5-40
Substrate (order of dominance)	1. Large rocks 2. Cobble 3. Gravel 4. Boulders
Flow Type	Riffle 40% Glide 40% Pool 20%
Instream Vegetation	Filamentous algae 5%
Dominant Bankside Vegetation	Grass, Rush, Heather
Estimated Summer Cover of Stream by Bankside Vegetation	20%
Salmonid Adult Habitat	Poor
Salmonid Nursery Habitat	Fair
Salmonid Spawning Habitat	Fair
Lamprey Nursery	None
Lamprey Spawning	None
Water Clarity	Clear
pH	5.5
Conductivity	49
Time (min.)	90
Area fished (m <sup>2</sup> )	90

No fish recorded

Site Code	F14
Date	29/07/2015
Grid Reference u/s	W 07453 71400
Grid Reference d/s	W 07431 71323
Average Width (m)	1
Depth (cm)	<40
Substrate (order of dominance)	1. Large rocks 2. Cobble 3. Gravel 4. Mud
Flow Type	Trickle between pools
Instream Vegetation	None
Dominant Bankside Vegetation	Rush, Grass
Estimated Summer Cover of Stream by Bankside Vegetation	10%
Salmonid Adult Habitat	Poor-None
Salmonid Nursery Habitat	Poor-None
Salmonid Spawning Habitat	Poor-None
Lamprey Nursery	None
Lamprey Spawning	Poor-None
Water Clarity	Clear
pH	5.3
Conductivity	30
Time (min.)	5
Area fished (m <sup>2</sup> )	<20

No fish recorded

Site Code	F15
Date	29/07/2015
Grid Reference u/s	W 08503 72101
Grid Reference d/s	W 08560 72110
Average Width (m)	1
Depth (cm)	5-15
Substrate (order of dominance)	1. Cobble 2. Gravel 3. Sand
Flow Type	Riffle 50% Glide 50%
Instream Vegetation	Bryophytes <1%
Dominant Bankside Vegetation	Rhododendron, Willow, Gorse
Estimated Summer Cover of Stream by Bankside Vegetation	35%
Salmonid Adult Habitat	Fair-Poor
Salmonid Nursery Habitat	Good
Salmonid Spawning Habitat	Fair
Lamprey Nursery	None
Lamprey Spawning	Fair
Water Clarity	Clear
pH	6.9
Conductivity	43
Time (min.)	15
Area fished (m <sup>2</sup> )	63

**Brown Trout**

**Fork Length (cm)**

**Age**

4.3

5.0

5.0

5.1

5.2

5.2

5.3

5.3

5.4

5.5

5.9

0+

6.0

6.0

6.2

6.5

6.5

6.5

6.9

7.0

7.5

7.5

7.7

Site Code	F16
Date	F16
Grid Reference u/s	15/08/2015
Grid Reference d/s	W 08148 73563
Average Width (m)	W 08176 73629
Depth (cm)	3
Substrate (order of dominance)	5-15
Flow Type	1. Cobble 2. Large rocks 3. Gravel 4. Sand
Instream Vegetation	Riffle 50% Glide 50%
Dominant Bankside Vegetation	Bryophytes <5%
Estimated Summer Cover of Stream by Bankside Vegetation	Ash, Willow
Salmonid Adult Habitat	50%
Salmonid Nursery Habitat	Poor
Salmonid Spawning Habitat	Good-Fair
Lamprey Nursery	Fair
Lamprey Spawning	None
Water Clarity	Fair
pH	Clear
Conductivity	6.3
Time (min.)	98
Area fished (m <sup>2</sup> )	18

Note: Catch reduced because flow through cobble, so fish taking refuge

**Brown Trout**

<b>Fork Length (cm)</b>	<b>Age</b>
7.4	
7.5	
7.8	
7.8	
8.0	0+
8.1	
8.2	
8.2	
8.3	
8.5	
<hr/>	
12.0	
12.0	1+
12.9	
<hr/>	
15.7	2+
18.3	

**Salmon**

<b>Fork Length (cm)</b>	<b>Age</b>
6.1	0+

Site Code	F17
Date	15/08/2015
Grid Reference u/s	W 1106073026
Grid Reference d/s	W 10957 73029
Average Width (m)	2
Depth (cm)	8-20
Substrate (order of dominance)	1. Cobble 2. Large rocks 3. Gravel
Flow Type	Riffle 60% Glide 35% Pool 5%
Instream Vegetation	Bryophytes <5%
Dominant Bankside Vegetation	Willow (scattered)
Estimated Summer Cover of Stream by Bankside Vegetation	<5%
Salmonid Adult Habitat	Fair
Salmonid Nursery Habitat	Very Good-Good
Salmonid Spawning Habitat	Fair-Good
Lamprey Nursery	None
Lamprey Spawning	Fair-Good
Water Clarity	Slightly turbid
pH	5.8
Conductivity	78
Time (min.)	12
Area fished (m <sup>2</sup> )	240

No fish captured

Site Code	F18
Date	15/08/2015
Grid Reference u/s	W 09361 73209
Grid Reference d/s	W 09308 73213
Average Width (m)	6
Depth (cm)	15-45
Substrate (order of dominance)	1. Large rocks 2. Cobble 3. Gravel 4. Sand 5. Boulders
Flow Type	Riffle 50% Glide 40% Pool 10%
Instream Vegetation	Filamentous algae 10%
Dominant Bankside Vegetation	Rhododendron, Willow, Hazel, Sycamore
Estimated Summer Cover of Stream by Bankside Vegetation	70%
Salmonid Adult Habitat	Good
Salmonid Nursery Habitat	Good-Fair
Salmonid Spawning Habitat	Good-Fair
Lamprey Nursery	None
Lamprey Spawning	Good-Fair
Water Clarity	Clear
pH	6.3
Conductivity	70
Time (min.)	17
Area fished (m <sup>2</sup> )	350



**Brown Trout**

<b>Fork Length (cm)</b>	<b>Age</b>
6.8	
7.1	
7.2	
7.4	0+
7.6	
7.7	
8.7	
14.5	
14.9	
15.5	
15.6	2+
16.4	
16.5	
17.1	
18.5	
18.9	

Site Code	F19
Date	15/08/2015
Grid Reference u/s	W 08795 73248
Grid Reference d/s	W 08726 73243
Average Width (m)	4-7
Depth (cm)	10-40
Substrate (order of dominance)	1. Cobble 2. Large rocks 3. Gravel 4. Sand 5. Boulders
Flow Type	Riffle 40% Glide 50% Pool 10%
Instream Vegetation	Filamentous algae 10% Bryophytes <5%
Dominant Bankside Vegetation	Rhododendron, Oak, Alder, Holly
Estimated Summer Cover of Stream by Bankside Vegetation	70%
Salmonid Adult Habitat	Good
Salmonid Nursery Habitat	Good
Salmonid Spawning Habitat	Good-Fair
Lamprey Nursery	None
Lamprey Spawning	Good-Fair
Water Clarity	Clear
pH	6.7
Conductivity	73
Time (min.)	20
Area fished (m <sup>2</sup> )	385

**Brown Trout**

<b>Fork Length (cm)</b>	<b>Age</b>
5.9	
6.9	
7.3	
7.4	0+
7.6	
7.6	
7.6	
8.6	
8.7	
<hr/>	
9.4	
11.2	1+
13.1	
13.7	
<hr/>	
14.7	
14.8	2+
14.9	
15.1	
15.6	
17.3	

**Salmon**

<b>Fork Length (cm)</b>	<b>Age</b>
9.8	
10.0	
11.0	
12.2	1+
12.4	
12.7	
12.8	