

APPENDIX G

MULTI-CRITERIA ANALYSIS RESULTS

Table G1 Locations of reaches considered in MCA

WB ID	WB name	Reach #	Reach location	u/s		d/s	
				x	y	x	y
23315	Dee - Peterculter to tidal limit	3	Milltimber to Ardoe House Hotel	385852	800396	389093	801785
23321	Leuchar Burn	2	Garlogie to Broadwater	378175	805425	380946	803784
23338	Tarland Burn	4	Tarland to Bridgend Steading	348143	804254	351057	802545
23322	Brodiach Burn / Ord Burn	1	Downstream Easter Ord Farm	383459	804405	381675	803653
23320	Gormack Burn	2	Milton of Cullerlie to Blackhall	376128	802150	379316	801638
23337	Dess Burn - upper	1	Downstream Mill Farm	355249	802208	356603	801502
23338	Tarland Burn	1	Downstream Aboyne Castle	352581	799510	354479	798209
23336	Dess Burn / Lumphanan Burn	1	Auchlossan to Muir of Dess	357041	802579	356575	800807
23323	Kinnernie Burn	1	Downstream of Craigiedarg bridge	376386	808711	377900	807876
23323	Kinnernie Burn	2	A944 Bridge to Dunecht	372725	809753	375610	808861
23324	Bo Burn	2	Loch of Park to Coy bridge	376442	798796	374525	797696
23320	Gormack Burn	1	Blackhall to Mid-Anguston	379316	801638	381392	801448
23333	Beltie Burn	2	Torphins to Milton of Campfield	362249	801407	364715	799805
23333	Beltie Burn	1	West Brathens to Bridgend	366250	798618	365386	797987
23338	Tarland Burn	5	Hopeswell to Tarland	344593	805428	348143	804254
23322	Brodiach Burn / Ord Burn	2	B9119 Bridge to Easter Ord Farm	383931	806213	383459	804405
23320	Gormack Burn	4	South Kirkton to Milton of Finnercy	374093	805071	375595	803771
23323	Kinnernie Burn	4	Minor bridge to minor bridge	369128	807570	370891	808666
23333	Beltie Burn	3	Wester Beltie to Torphins	360924	802360	362192	801480
23323	Kinnernie Burn	5	Upstream minor bridge	367655	805911	369128	807570
23315	Dee - Peterculter to tidal limit	1	Garthdee	390858	802546	392889	803554
23338	Tarland Burn	3	Bridgend Steading to Coull Home Farm	351057	802545	350979	801369
23324	Bo Burn	4	Hirn bridge to Myrebird	372570	799284	374483	799654
23315	Dee - Peterculter to tidal limit	2	Ardoe House Hotel to Inchgarth Reservoir	389093	801785	390670	802509
23337	Dess Burn - upper	2	Between West Mains and Mill Farm	354662	802841	355249	802208
23337	Dess Burn - upper	3	Between Loanend and West Mains	354343	803535	354662	802841
23321	Leuchar Burn	1	Broadwater to North Linn	380946	803784	382375	803221
23324	Bo Burn	5	A944 bridge to Hirn bridge	369399	798968	372570	799284
23316	Dee - Banchory to Peterculter	4	Park House	377724	796779	379365	797879
23322	Brodiach Burn / Ord Burn	3	Upstream B9119 Bridge	384728	807812	383931	806213
23316	Dee - Banchory to Peterculter	5	A957 bridge to Kirkton of Durris	375253	795811	377724	796779
23316	Dee - Banchory to Peterculter	1	North Tilbouries to Altries house	382739	798764	383991	799062
23320	Gormack Burn	3	Milton of Finnercy to Milton of Cullerlie	375595	803771	376128	802150
23324	Bo Burn	6	A944 bridge to A944 bridge	368335	799426	369399	798968
23326	Water of Feugh - lower catchment	1	Burn of Cammie to Inverey House	368384	792468	369702	793731
23323	Kinnernie Burn	3	Minor bridge to A944 bridge	370891	808666	372725	809753
23320	Gormack Burn	5	Mill of Hole House to South Kirkton	371086	805350	373999	805084
23326	Water of Feugh - lower catchment	3	Lady's Bridge to Strachan bridge	365298	792040	367524	792132
23336	Dess Burn / Lumphanan Burn	2	Lumphanan to Auchlossan	358121	803980	357041	802579
23316	Dee - Banchory to Peterculter	6	Banchory to A957 Bridge	371924	796365	375253	795811
23316	Dee - Banchory to Peterculter	7	Banchory	370285	795345	371512	796113
23316	Dee - Banchory to Peterculter	2	Craiglug Farm to North Tilbouries	381071	798182	382739	798764
23337	Dess Burn - upper	5	Entire water body	353364	804907	356603	801502
23326	Water of Feugh - lower catchment	2	Strachan bridge to Burn of Cammie	367524	792132	368651	792488
23326	Water of Feugh - lower catchment	4	Upstream Lady's Bridge	363840	792076	365298	792040

Table G2 Morphology score

WB ID	WB name	Reach #	Morphology score				
			Improves status to Good	Improves status by 2 classes	Improves status by 1 class	Adjusted capacity released	Overall score
23315	Dee - Peterculter to tidal limit	3		0.75	0.50	0.25	1.5
23321	Leuchar Burn	2	1.00	0.75	0.50	0.13	2.4
23338	Tarland Burn	4			0.50	0.06	0.6
23322	Brodiach Burn / Ord Burn	1		0.75	0.50	0.14	1.4
23320	Gormack Burn	2			0.50	0.08	0.6
23337	Dess Burn - upper	1		0.75	0.50	0.17	1.4
23338	Tarland Burn	1			0.50	0.04	0.5
23336	Dess Burn / Lumphanan Burn	1	1.00	0.75	0.50	0.12	2.4
23323	Kinnernie Burn	1				0.03	0.0
23323	Kinnernie Burn	2			0.50	0.08	0.6
23324	Bo Burn	2			0.50	0.06	0.6
23320	Gormack Burn	1			0.50	0.06	0.6
23333	Beltie Burn	2			0.50	0.08	0.6
23333	Beltie Burn	1				0.02	0.0
23338	Tarland Burn	5			0.50	0.04	0.5
23322	Brodiach Burn / Ord Burn	2			0.50	0.08	0.6
23320	Gormack Burn	4				0.02	0.0
23323	Kinnernie Burn	4				0.05	0.0
23333	Beltie Burn	3				0.03	0.0
23323	Kinnernie Burn	5				0.04	0.0
23315	Dee - Peterculter to tidal limit	1				0.06	0.1
23338	Tarland Burn	3			0.50	0.04	0.5
23324	Bo Burn	4			0.50	0.05	0.5
23315	Dee - Peterculter to tidal limit	2				0.06	0.1
23337	Dess Burn - upper	2				0.06	0.1
23337	Dess Burn - upper	3				0.02	0.0
23321	Leuchar Burn	1				0.01	0.0
23324	Bo Burn	5			0.50	0.05	0.5
23316	Dee - Banchory to Peterculter	4	1.00		0.50	0.02	1.5
23322	Brodiach Burn / Ord Burn	3				0.02	0.0
23316	Dee - Banchory to Peterculter	5				0.01	0.0
23316	Dee - Banchory to Peterculter	1				0.00	0.0
23320	Gormack Burn	3				0.03	0.0
23324	Bo Burn	6			0.50	0.01	0.5
23326	Water of Feugh - lower catchment	1				0.01	0.0
23323	Kinnernie Burn	3				0.02	0.0
23320	Gormack Burn	5				0.04	0.0
23326	Water of Feugh - lower catchment	3			0.50	0.08	0.6
23336	Dess Burn / Lumphanan Burn	2				0.02	0.0
23316	Dee - Banchory to Peterculter	6				0.00	0.0
23316	Dee - Banchory to Peterculter	7				0.00	0.0
23316	Dee - Banchory to Peterculter	2				0.01	0.0
23337	Dess Burn - upper	5				0.02	0.0
23326	Water of Feugh - lower catchment	2				0.02	0.0
23326	Water of Feugh - lower catchment	4				0.02	0.0

Table G3 NFM score

WB ID	WB name	Reach #	NFM benefit score		PVA influence weighting		NFM overall score
			Absolute flow peak reduction	Relative flow peak reduction	Direct input to PVA	Within PVA	
23315	Dee - Peterculter to tidal limit	3	50.80	6.12	1	2	100.000
23321	Leuchar Burn	2	0.01	0.03	2	1	0.153
23338	Tarland Burn	4	1.37	5.41	1	2	45.485
23322	Brodiach Burn / Ord Burn	1	0.14	1.66	1	2	13.674
23320	Gormack Burn	2	0.97	3.92	2	1	17.918
23337	Dess Burn - upper	1	0.00	0.02	1	1	0.081
23338	Tarland Burn	1	0.00	0.00	1	2	0.000
23336	Dess Burn / Lumphanan Burn	1	0.01	0.07	1	1	0.284
23323	Kinnernie Burn	1	0.00	0.00	1	1	0.000
23323	Kinnernie Burn	2	0.00	0.00	1	1	0.000
23324	Bo Burn	2	0.00	0.00	1	1	0.000
23320	Gormack Burn	1	0.36	1.46	2	1	6.695
23333	Beltie Burn	2	0.05	0.14	1	2	1.187
23333	Beltie Burn	1	0.00	0.01	1	2	0.124
23338	Tarland Burn	5	0.00	0.00	1	2	0.000
23322	Brodiach Burn / Ord Burn	2	0.01	0.09	1	2	0.760
23320	Gormack Burn	4	0.00	0.00	2	1	0.000
23323	Kinnernie Burn	4	0.00	0.00	1	1	0.000
23333	Beltie Burn	3	0.00	0.00	1	2	0.000
23323	Kinnernie Burn	5	0.00	0.00	1	1	0.000
23315	Dee - Peterculter to tidal limit	1	0.00	0.00	1	2	0.000
23338	Tarland Burn	3	0.00	0.00	1	2	0.000
23324	Bo Burn	4	0.00	0.00	1	1	0.000
23315	Dee - Peterculter to tidal limit	2	0.02	0.00	1	2	0.048
23337	Dess Burn - upper	2	0.00	0.00	1	1	0.000
23337	Dess Burn - upper	3	0.01	0.00	1	1	0.016
23321	Leuchar Burn	1	0.00	0.00	2	1	0.000
23324	Bo Burn	5	0.00	0.00	1	1	0.000
23316	Dee - Banchory to Peterculter	4	5.11	0.63	2	1	12.652
23322	Brodiach Burn / Ord Burn	3	0.00	0.00	1	2	0.000
23316	Dee - Banchory to Peterculter	5	2.04	0.25	2	1	5.041
23316	Dee - Banchory to Peterculter	1	11.42	1.39	2	1	28.139
23320	Gormack Burn	3	0.00	0.00	2	1	0.000
23324	Bo Burn	6	0.00	0.02	1	1	0.062
23326	Water of Feugh - lower catchment	1	0.00	0.00	2	1	0.000
23323	Kinnernie Burn	3	0.00	0.00	1	1	0.000
23320	Gormack Burn	5	0.00	0.00	2	1	0.000
23326	Water of Feugh - lower catchment	3	0.84	0.46	2	1	3.535
23336	Dess Burn / Lumphanan Burn	2	0.00	0.00	1	1	0.000
23316	Dee - Banchory to Peterculter	6	0.00	0.00	2	2	0.000
23316	Dee - Banchory to Peterculter	7	0.00	0.00	2	2	0.000
23316	Dee - Banchory to Peterculter	2	0.00	0.00	2	1	0.000
23337	Dess Burn - upper	5	0.00	0.00	1	1	0.000
23326	Water of Feugh - lower catchment	2	0.41	0.23	2	1	1.722
23326	Water of Feugh - lower catchment	4	0.00	0.00	2	1	0.000

Table G4 Environmental scores

WB ID	WB name	Reach #	Environmental criteria						Total
			Impact on national protected areas	Salmon impact	Otter impact	FWPM impact	Surrounding habitat restoration potential	Reduces diffuse pollution	
23315	Dee - Peterculter to tidal limit	3	0	1	1	1	1	0	4
23321	Leuchar Burn	2	0	1	1	1	3	2	8
23338	Tarland Burn	4	0	1	1	1	1	2	6
23322	Brodiach Burn / Ord Burn	1	0	1	1	1	1	0	4
23320	Gormack Burn	2	0	1	1	1	3	0	6
23337	Dess Burn - upper	1	0	1	1	1	1	0	4
23338	Tarland Burn	1	0	1	1	1	3	2	8
23336	Dess Burn / Lumphanan Burn	1	0	1	1	1	3	0	6
23323	Kinnernie Burn	1	0	1	1	1	3	2	8
23323	Kinnernie Burn	2	0	1	1	1	2	2	7
23324	Bo Burn	2	1	1	1	1	3	0	7
23320	Gormack Burn	1	1	1	1	1	1	0	5
23333	Beltie Burn	2	0	1	1	1	1	2	6
23333	Beltie Burn	1	0	1	1	1	3	2	8
23338	Tarland Burn	5	0	1	1	1	3	2	8
23322	Brodiach Burn / Ord Burn	2	0	1	1	1	3	0	6
23320	Gormack Burn	4	0	1	1	1	3	0	6
23323	Kinnernie Burn	4	0	1	1	1	3	2	8
23333	Beltie Burn	3	0	1	1	1	1	2	6
23323	Kinnernie Burn	5	0	1	1	1	2	2	7
23315	Dee - Peterculter to tidal limit	1	0	1	1	1	1	0	4
23338	Tarland Burn	3	0	1	1	1	1	2	6
23324	Bo Burn	4	0	1	1	1	2	0	5
23315	Dee - Peterculter to tidal limit	2	0	0	0	0	3	0	3
23337	Dess Burn - upper	2	0	1	1	1	1	0	4
23337	Dess Burn - upper	3	0	1	1	1	3	0	6
23321	Leuchar Burn	1	0	1	1	1	1	2	6
23324	Bo Burn	5	0	1	1	1	2	0	5
23316	Dee - Banchory to Peterculter	4	0	1	1	0	2	0	4
23322	Brodiach Burn / Ord Burn	3	0	1	1	1	1	0	4
23316	Dee - Banchory to Peterculter	5	0	1	1	0	1	0	3
23316	Dee - Banchory to Peterculter	1	0	1	1	0	1	0	3
23320	Gormack Burn	3	0	1	1	1	1	0	4
23324	Bo Burn	6	0	1	1	1	3	0	6
23326	Water of Feugh - lower catchment	1	0	1	1	1	1	0	4
23323	Kinnernie Burn	3	0	1	1	1	1	2	6
23320	Gormack Burn	5	0	1	1	1	1	0	4
23326	Water of Feugh - lower catchment	3	0	0	0	0	1	0	1
23336	Dess Burn / Lumphanan Burn	2	0	1	1	1	1	0	4
23316	Dee - Banchory to Peterculter	6	0	1	1	0	1	0	3
23316	Dee - Banchory to Peterculter	7	0	1	1	0	1	0	3
23316	Dee - Banchory to Peterculter	2	0	1	1	0	1	0	3
23337	Dess Burn - upper	5	0	1	1	0	1	0	3
23326	Water of Feugh - lower catchment	2	0	0	0	0	1	0	1
23326	Water of Feugh - lower catchment	4	0	0	0	0	1	0	1

Table G5 Socio-economic scores

WB ID	WB name	Reach #	Socio-economic criteria			
			Affects critical infrastructure	Potential to create recreational infrastructure	Awareness raising potential	Total
23315	Dee - Peterculter to tidal limit	3	-1	2	2	3
23321	Leuchar Burn	2	0	0	2	2
23338	Tarland Burn	4	-1	0	2	1
23322	Brodiach Burn / Ord Burn	1	0	0	2	2
23320	Gormack Burn	2	0	0	2	2
23337	Dess Burn - upper	1	-1	0	2	1
23338	Tarland Burn	1	-1	2	2	3
23336	Dess Burn / Lumphanan Burn	1	-1	0	2	1
23323	Kinnernie Burn	1	-1	2	2	3
23323	Kinnernie Burn	2	-1	0	2	1
23324	Bo Burn	2	0	0	2	2
23320	Gormack Burn	1	-1	2	2	3
23333	Beltie Burn	2	-1	0	2	1
23333	Beltie Burn	1	0	0	2	2
23338	Tarland Burn	5	-1	0	2	1
23322	Brodiach Burn / Ord Burn	2	-1	0	2	1
23320	Gormack Burn	4	0	2	2	4
23323	Kinnernie Burn	4	0	0	0	0
23333	Beltie Burn	3	-1	2	2	3
23323	Kinnernie Burn	5	-1	0	2	1
23315	Dee - Peterculter to tidal limit	1	-1	2	2	3
23338	Tarland Burn	3	0	0	2	2
23324	Bo Burn	4	0	0	2	2
23315	Dee - Peterculter to tidal limit	2	-1	2	2	3
23337	Dess Burn - upper	2	0	0	2	2
23337	Dess Burn - upper	3	0	0	2	2
23321	Leuchar Burn	1	0	0	2	2
23324	Bo Burn	5	-1	0	2	1
23316	Dee - Banchory to Peterculter	4	0	0	2	2
23322	Brodiach Burn / Ord Burn	3	-1	2	2	3
23316	Dee - Banchory to Peterculter	5	0	2	2	4
23316	Dee - Banchory to Peterculter	1	-1	0	2	1
23320	Gormack Burn	3	0	0	2	2
23324	Bo Burn	6	-1	0	2	1
23326	Water of Feugh - lower catchment	1	-1	2	2	3
23323	Kinnernie Burn	3	0	0	0	0
23320	Gormack Burn	5	-1	0	2	1
23326	Water of Feugh - lower catchment	3	-1	0	2	1
23336	Dess Burn / Lumphanan Burn	2	-1	0	2	1
23316	Dee - Banchory to Peterculter	6	-1	2	2	3
23316	Dee - Banchory to Peterculter	7	-1	2	2	3
23316	Dee - Banchory to Peterculter	2	-1	0	2	1
23337	Dess Burn - upper	5	0	0	0	0
23326	Water of Feugh - lower catchment	2	0	0	2	2
23326	Water of Feugh - lower catchment	4	0	0	2	2

Table G6 Weighted scores and overall total

WB ID	WB name	Reach #	Weighted scores				
			WFD	NFM	Environmental	Socio-economic	Total
23315	Dee - Peterculter to tidal limit	3	22.1	35.0	8.6	7.5	73.1
23321	Leuchar Burn	2	18.1	0.1	20.0	5.0	43.2
23338	Tarland Burn	4	8.9	15.9	14.3	2.5	41.6
23322	Brodiach Burn / Ord Burn	1	19.1	4.8	8.6	5.0	37.5
23320	Gormack Burn	2	11.8	6.3	14.3	5.0	37.4
23337	Dess Burn - upper	1	24.4	0.0	8.6	2.5	35.5
23338	Tarland Burn	1	6.0	0.0	20.0	7.5	33.5
23336	Dess Burn / Lumphanan Burn	1	16.5	0.1	14.3	2.5	33.3
23323	Kinnernie Burn	1	3.7	0.0	20.0	7.5	31.2
23323	Kinnernie Burn	2	11.3	0.0	17.1	2.5	31.0
23324	Bo Burn	2	8.3	0.0	17.1	5.0	30.4
23320	Gormack Burn	1	9.1	2.3	11.4	7.5	30.3
23333	Beltie Burn	2	11.0	0.4	14.3	2.5	28.2
23333	Beltie Burn	1	3.1	0.0	20.0	5.0	28.2
23338	Tarland Burn	5	5.7	0.0	20.0	2.5	28.2
23322	Brodiach Burn / Ord Burn	2	11.1	0.3	14.3	2.5	28.1
23320	Gormack Burn	4	3.1	0.0	14.3	10.0	27.4
23323	Kinnernie Burn	4	7.0	0.0	20.0	0.0	27.0
23333	Beltie Burn	3	4.3	0.0	14.3	7.5	26.1
23323	Kinnernie Burn	5	6.2	0.0	17.1	2.5	25.8
23315	Dee - Peterculter to tidal limit	1	8.9	0.0	8.6	7.5	25.0
23338	Tarland Burn	3	4.9	0.0	14.3	5.0	24.2
23324	Bo Burn	4	6.4	0.0	11.4	5.0	22.8
23315	Dee - Peterculter to tidal limit	2	9.1	0.0	5.7	7.5	22.3
23337	Dess Burn - upper	2	8.6	0.0	8.6	5.0	22.2
23337	Dess Burn - upper	3	2.4	0.0	14.3	5.0	21.7
23321	Leuchar Burn	1	1.7	0.0	14.3	5.0	21.0
23324	Bo Burn	5	6.7	0.0	11.4	2.5	20.6
23316	Dee - Banchory to Peterculter	4	2.2	4.4	8.6	5.0	20.2
23322	Brodiach Burn / Ord Burn	3	3.0	0.0	8.6	7.5	19.0
23316	Dee - Banchory to Peterculter	5	1.4	1.8	5.7	10.0	18.9
23316	Dee - Banchory to Peterculter	1	0.6	9.8	5.7	2.5	18.7
23320	Gormack Burn	3	4.9	0.0	8.6	5.0	18.5
23324	Bo Burn	6	1.6	0.0	14.3	2.5	18.4
23326	Water of Feugh - lower catchment	1	1.0	0.0	8.6	7.5	17.1
23323	Kinnernie Burn	3	2.2	0.0	14.3	0.0	16.5
23320	Gormack Burn	5	5.0	0.0	8.6	2.5	16.1
23326	Water of Feugh - lower catchment	3	10.7	1.2	0.0	2.5	14.4
23336	Dess Burn / Lumphanan Burn	2	3.3	0.0	8.6	2.5	14.4
23316	Dee - Banchory to Peterculter	6	0.6	0.0	5.7	7.5	13.8
23316	Dee - Banchory to Peterculter	7	0.0	0.0	5.7	7.5	13.2
23316	Dee - Banchory to Peterculter	2	0.8	0.0	5.7	2.5	9.0
23337	Dess Burn - upper	5	3.0	0.0	5.7	0.0	8.7
23326	Water of Feugh - lower catchment	2	2.3	0.6	0.0	5.0	7.9
23326	Water of Feugh - lower catchment	4	2.4	0.0	0.0	5.0	7.4