

Rural Diffuse Pollution: Prioritisation of Catchments for RBMP 2

1.0 Purpose

This paper documents the prioritisation of rural diffuse pollution catchments for RBMP 2 delivery.

2.0 Prioritisation factors

The most important factor for prioritisation is protection of human health. For this reason data was collected on protected bathing waters, shellfish waters and drinking waters to identify impacts or risks.

Of secondary importance is the protection of designated habitats. These included Special Areas of Conservation (SAC) and Special Protected Areas (SPA). Sites of Special Scientific Interest (SSSI) were not included due to the relatively low confidence in impact and pressure assessment at time of prioritisation.

Impact to rivers, lochs and groundwaters was also considered, as determined by the 2013 Water Framework Directive (WFD) Classification (revised standards). For surface waters, evidence of ecological downgrade was used to identify impact with highest confidence. For groundwaters, supplementary data on private drinking water supplies was also included.

For all impacts, only those attributable to rural diffuse pollution were included in the prioritisation process. Local judgement, expert opinion and modelled source apportionment (ADAS 2013) were used to identify significant rural diffuse pressures.

Note:

Grouping of catchments: a small number of catchments fall into natural groupings due to proximity/ similar land use pressures/ contribution to a common impact. It is preferential that these grouped catchments are taken forward in the same delivery scenario for effectiveness and efficiencies in delivery. For such catchments, all were given the same priority (defaulted to highest priority in group).

Groundwaters and Nitrate Vulnerable Zones (NVZ): For nitrate risks to groundwater the priority catchment measures would offer no additional benefit over the NVZ programme of measures. For this reason nitrate risk in a current NVZ was not used to prioritise areas for priority catchment measures.

3.0 Scale of prioritisation

Prioritisation was carried out at the main catchment scale. To reduce the bias towards larger catchments, WFD waterbodies were assessed on density of impact.

4.0 Identifying the most suitable approach: Priority Catchment or Focus Area

The priority catchment approach, utilising catchment walks and farm visits in areas of intensive agriculture is not suitable for all catchments. For more extensive land uses, isolated impacts or areas with more diverse/ less well understood pressures a different approach may be needed. These areas require more investigation into pressures and possibly the development of new strategies and measures to target the identified pressure. Such catchments have been called “Diffuse Pollution Focus Areas”.

5.0 Prioritisation criteria

The prioritisation process only needs to be detailed enough to place each main catchment into one of three scenarios for RBMP consultation (baseline, step change 1 or step change 2). Catchments were prioritised by qualifying criteria at the main catchment scale. Each catchment was allocated a priority class based on the qualifying criteria described below:

Priority Class	Criteria
1 st cycle PC	1st cycle PC
Must do FA	Deteriorating Protected Area (SAC, SPA, DWPA, SFW)
	High Priority Shellfish Waters (< Good and Oyster production < class A or deteriorating)
	Bathing Water Impacted/ Significant Risk of Impact
Must do PC	Deteriorating Protected Area (SAC, SPA, DWPA, SFW)
	High Priority Shellfish Waters (< Good and Oyster production < class A or deteriorating)
	Bathing Water Impacted/ Significant Risk of Impact
High priority FA	Protected Area Impacted/ Significant Risk of Impact (other than bathing water)
	WFD downgrades in catchment
High Priority PC	Protected Area Impacted/ Significant Risk of Impact (other than bathing water)
	highest density of WFD impacts
Remaining suitable FA	Shellfish Waters < Good <u>excluding</u> Oyster production < class A or deteriorating
Remaining suitable PC	lowest density of WFD impacts

PC – Priority Catchment, FA = Focus Area

6.0 Allocation of priority classes to scenarios

The priority classes were distributed between the three scenarios and cycles as follows:

Priority Class	Baseline Scenario	Step Change 1 Scenario	Step Change 2 Scenario
1 st cycle PC	1st cycle	1st cycle	1st cycle
Must do FA	Not done	2nd cycle	2nd cycle
Must do PC	2nd cycle	2nd cycle	2nd cycle
High priority FA	Not done	3rd cycle	2nd cycle
High Priority PC	3rd cycle	2nd cycle	2nd cycle
Remaining suitable FA	Not done	3rd cycle	2nd cycle
Remaining suitable PC	Not done	3rd cycle	2nd cycle

PC – Priority Catchment, FA = Focus Area

Note: it was decided that the baseline delivery scenario shall not include any focus areas. The baseline scenario represents rolling forward the existing programme (i.e. priority catchment-based work) without any step change in delivery. In the medium scenario, high priority focus areas are not to be tackled until the 3rd cycle. This is to allow sufficient time for pressure investigations and measure development as necessary.

7.0 Prioritisation of Catchments

The outcome of the prioritisation process is detailed in the following tables and illustrated in the annexed maps.

Priority Catchments:

Count	Main Catchment	Priority Class	Baseline Scenario	Step Change 1 Scenario	Step Change 2 Scenario
1	Buchan Coastal	1 st cycle PC	1st cycle	1st cycle	1st cycle
2	Eye Water	1 st cycle PC	1st cycle	1st cycle	1st cycle
3	Galloway Coastal	1 st cycle PC	1st cycle	1st cycle	1st cycle
4	North Ayrshire Coastal	1 st cycle PC	1st cycle	1st cycle	1st cycle
5	River Ayr	1 st cycle PC	1st cycle	1st cycle	1st cycle
6	River Dee (Grampian)	1 st cycle PC	1st cycle	1st cycle	1st cycle
7	River Deveron	1 st cycle PC	1st cycle	1st cycle	1st cycle
8	River Doon	1 st cycle PC	1st cycle	1st cycle	1st cycle
9	River Garnock	1 st cycle PC	1st cycle	1st cycle	1st cycle
10	River Irvine	1 st cycle PC	1st cycle	1st cycle	1st cycle
11	River South Esk (Tayside)	1 st cycle PC	1st cycle	1st cycle	1st cycle
12	River Tay	1 st cycle PC	1st cycle	1st cycle	1st cycle
13	River Ugie	1 st cycle PC	1st cycle	1st cycle	1st cycle
14	Stewartry Coastal	1 st cycle PC	1st cycle	1st cycle	1st cycle
15	Annan Coastal	Must do PC	2nd cycle	2nd cycle	2nd cycle
16	Cromarty Coastal	Must do PC	2nd cycle	2nd cycle	2nd cycle
17	Dighty Water	Must do PC	2nd cycle	2nd cycle	2nd cycle
18	Dumfries Coastal	Must do PC	2nd cycle	2nd cycle	2nd cycle
19	Gretna Coastal	Must do PC	2nd cycle	2nd cycle	2nd cycle
20	Kincardine and Angus Coastal	Must do PC	2nd cycle	2nd cycle	2nd cycle
21	River Annan	Must do PC	2nd cycle	2nd cycle	2nd cycle
22	River Dee (Solway)	Must do PC	2nd cycle	2nd cycle	2nd cycle
23	River Esk (Solway)	Must do PC	2nd cycle	2nd cycle	2nd cycle
24	River Nairn	Must do PC	2nd cycle	2nd cycle	2nd cycle
25	River Nith	Must do PC	2nd cycle	2nd cycle	2nd cycle
26	River Tweed (Lower)	Must do PC	2nd cycle	2nd cycle	2nd cycle
27	Urr Water	Must do PC	2nd cycle	2nd cycle	2nd cycle
28	Water of Girvan	Must do PC	2nd cycle	2nd cycle	2nd cycle
29	Whiteadder Water	Must do PC	2nd cycle	2nd cycle	2nd cycle
30	Bervie Water	High Priority PC	3rd cycle	2nd cycle	2nd cycle
31	Dundee Coastal	High Priority PC	3rd cycle	2nd cycle	2nd cycle
32	Earn Coastal	High Priority PC	3rd cycle	2nd cycle	2nd cycle
33	East Lothian Coastal	High Priority PC	3rd cycle	2nd cycle	2nd cycle
34	Inverness Coastal	High Priority PC	3rd cycle	2nd cycle	2nd cycle
35	Lochar Water	High Priority PC	3rd cycle	2nd cycle	2nd cycle
36	Lunan Water	High Priority PC	3rd cycle	2nd cycle	2nd cycle
37	North Fife Coastal	High Priority PC	3rd cycle	2nd cycle	2nd cycle
38	River Don	High Priority PC	3rd cycle	2nd cycle	2nd cycle
39	River Earn	High Priority PC	3rd cycle	2nd cycle	2nd cycle
40	River Eden	High Priority PC	3rd cycle	2nd cycle	2nd cycle
41	River North Esk (Tayside)	High Priority PC	3rd cycle	2nd cycle	2nd cycle
42	River Ythan	High Priority PC	3rd cycle	2nd cycle	2nd cycle
43	South Fife Coastal	High Priority PC	3rd cycle	2nd cycle	2nd cycle
44	Banff Coastal	Remaining suitable PC	not done	3rd cycle	2nd cycle
45	Forth Estuary (South) Coastal	Remaining suitable PC	not done	3rd cycle	2nd cycle
46	Moray Coastal	Remaining suitable PC	not done	3rd cycle	2nd cycle
47	River Almond	Remaining suitable PC	not done	3rd cycle	2nd cycle
48	River Clyde	Remaining suitable PC	not done	3rd cycle	2nd cycle
49	River Esk (Lothian)	Remaining suitable PC	not done	3rd cycle	2nd cycle
50	River Forth	Remaining suitable PC	not done	3rd cycle	2nd cycle
51	River Leven (Fife)	Remaining suitable PC	not done	3rd cycle	2nd cycle
52	River Lossie	Remaining suitable PC	not done	3rd cycle	2nd cycle
53	River Tweed (Upper)	Remaining suitable PC	not done	3rd cycle	2nd cycle
54	River Tyne	Remaining suitable PC	not done	3rd cycle	2nd cycle
55	Stirling Coastal	Remaining suitable PC	not done	3rd cycle	2nd cycle
56	Thurso Coastal	Remaining suitable PC	not done	3rd cycle	2nd cycle
57	Wick River	Remaining suitable PC	not done	3rd cycle	2nd cycle

Focus Areas:

Count	Main Catchment	Priority Class	Baseline Scenario	Step Change 1 Scenario	Step Change 2 Scenario
1	South Uist Coastal	Must do FA	not done	2nd cycle	2nd cycle
2	Dornoch Coastal	Must do FA	not done	2nd cycle	2nd cycle
3	River Cassley	Must do FA	not done	2nd cycle	2nd cycle
4	River Oykel	Must do FA	not done	2nd cycle	2nd cycle
5	Island of Bute Coastal	Must do FA	not done	2nd cycle	2nd cycle
6	Arisaig Shellfish Water Catchment	Must do FA	not done	2nd cycle	2nd cycle
7	East Tarbert Bay Shellfish Water Catchment	Must do FA	not done	2nd cycle	2nd cycle
8	Loch a Chumhainn Shellfish Water Catchment	Must do FA	not done	2nd cycle	2nd cycle
9	Loch Ailort Shellfish Water Catchment	Must do FA	not done	2nd cycle	2nd cycle
10	Loch Creran Shellfish Water Catchment	Must do FA	not done	2nd cycle	2nd cycle
11	Loch Fyne Shellfish Water Catchment	Must do FA	not done	2nd cycle	2nd cycle
12	Loch Gruinart Shellfish Water Catchment	Must do FA	not done	2nd cycle	2nd cycle
13	Loch Harport Shellfish Water Catchment	Must do FA	not done	2nd cycle	2nd cycle
14	Loch Kishorn Shellfish Water Catchment	Must do FA	not done	2nd cycle	2nd cycle
15	Loch Moidart, South Channel shellfish water catchment	Must do FA	not done	2nd cycle	2nd cycle
16	Loch Spelve Shellfish water Catchment	Must do FA	not done	2nd cycle	2nd cycle
17	Seil Sound Shellfish Water Catchment	Must do FA	not done	2nd cycle	2nd cycle
18	Seil Ardencape shellfish water catchment	Must do FA	not done	2nd cycle	2nd cycle
19	River Tweed	High Priority FA	not done	3rd cycle	2nd cycle
20	River Leven (Loch Lomond)	High Priority FA	not done	3rd cycle	2nd cycle
21	Kintyre Coastal	High Priority FA	not done	3rd cycle	2nd cycle
22	Island of Mull Coastal	High Priority FA	not done	3rd cycle	2nd cycle
23	River Ness	High Priority FA	not done	3rd cycle	2nd cycle
24	Loch of Stenness	High Priority FA	not done	3rd cycle	2nd cycle
25	Island of Bute Coastal	High Priority FA	not done	3rd cycle	2nd cycle
26	Ardtoe and Loch Ceann Traigh shellfish water catchment	Remaining Suitable FA	not done	3rd cycle	2nd cycle
27	Baltasound Voe shellfish water catchment	Remaining Suitable FA	not done	3rd cycle	2nd cycle
28	Cais - bhaigh, Enard Bay shellfish water catchment	Remaining Suitable FA	not done	3rd cycle	2nd cycle
29	Cat Firth shellfish water catchment	Remaining Suitable FA	not done	3rd cycle	2nd cycle
30	Cromarty Bay shellfish water catchment	Remaining Suitable FA	not done	3rd cycle	2nd cycle
31	Dales Voe shellfish water catchment	Remaining Suitable FA	not done	3rd cycle	2nd cycle
32	Dornoch Firth shellfish water catchment	Remaining Suitable FA	not done	3rd cycle	2nd cycle
33	Gruting Voe shellfish water catchment	Remaining Suitable FA	not done	3rd cycle	2nd cycle
34	Hawksness shellfish water catchment	Remaining Suitable FA	not done	3rd cycle	2nd cycle
35	Kerrera shellfish water catchment	Remaining Suitable FA	not done	3rd cycle	2nd cycle
36	Lamlash shellfish water catchment	Remaining Suitable FA	not done	3rd cycle	2nd cycle
37	Lismore shellfish water catchment	Remaining Suitable FA	not done	3rd cycle	2nd cycle
38	Little Loch Broom shellfish water catchment	Remaining Suitable FA	not done	3rd cycle	2nd cycle
39	Loch Beag shellfish water catchment	Remaining Suitable FA	not done	3rd cycle	2nd cycle
40	Loch Caroy shellfish water catchment	Remaining Suitable FA	not done	3rd cycle	2nd cycle
41	Loch Eil shellfish water catchment	Remaining Suitable FA	not done	3rd cycle	2nd cycle
42	Loch Erisort shellfish water catchment	Remaining Suitable FA	not done	3rd cycle	2nd cycle
43	Loch Etive shellfish water catchment	Remaining Suitable FA	not done	3rd cycle	2nd cycle
44	Loch Ewe shellfish water catchment	Remaining Suitable FA	not done	3rd cycle	2nd cycle
45	Loch Glendhu shellfish water catchment	Remaining Suitable FA	not done	3rd cycle	2nd cycle
46	Loch Inchard shellfish water catchment	Remaining Suitable FA	not done	3rd cycle	2nd cycle
47	Loch Leurbost shellfish water catchment	Remaining Suitable FA	not done	3rd cycle	2nd cycle
48	Loch Leven shellfish water catchment	Remaining Suitable FA	not done	3rd cycle	2nd cycle
49	Loch Long shellfish water catchment	Remaining Suitable FA	not done	3rd cycle	2nd cycle
50	Loch Melfort shellfish water catchment	Remaining Suitable FA	not done	3rd cycle	2nd cycle
51	Loch Scridain shellfish water catchment	Remaining Suitable FA	not done	3rd cycle	2nd cycle
52	Loch Seaforth shellfish water catchment	Remaining Suitable FA	not done	3rd cycle	2nd cycle
53	Loch Slapin shellfish water catchment	Remaining Suitable FA	not done	3rd cycle	2nd cycle
54	Loch Sligachan shellfish water catchment	Remaining Suitable FA	not done	3rd cycle	2nd cycle
55	Loch Snizort shellfish water catchment	Remaining Suitable FA	not done	3rd cycle	2nd cycle
56	Loch Stockinish shellfish water catchment	Remaining Suitable FA	not done	3rd cycle	2nd cycle
57	Loch Striven shellfish water catchment	Remaining Suitable FA	not done	3rd cycle	2nd cycle
58	Lynn of Lorn shellfish water catchment	Remaining Suitable FA	not done	3rd cycle	2nd cycle
59	Mid Yell Voe shellfish water catchment	Remaining Suitable FA	not done	3rd cycle	2nd cycle
60	Muckle Roe Area shellfish water catchment	Remaining Suitable FA	not done	3rd cycle	2nd cycle
61	Scarvar Ayre, Dales Voe shellfish water catchment	Remaining Suitable FA	not done	3rd cycle	2nd cycle
62	Upper Loch Torridon shellfish water catchment	Remaining Suitable FA	not done	3rd cycle	2nd cycle
63	Wadbister Voe shellfish water catchment	Remaining Suitable FA	not done	3rd cycle	2nd cycle
64	Whale Firth shellfish water catchment	Remaining Suitable FA	not done	3rd cycle	2nd cycle

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Annex: mapped scenarios





