

NATIONAL RIVERS AUTHORITY  
WELSH REGION

SEWAGE TREATMENT WORKS REMEDIAL STRATEGY

PHASE 2 REPORT

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## EXECUTIVE SUMMARY

The objective of this strategy is to identify those Dŵr Cymru Welsh Water (DCWW) Sewage Treatment Works (STWs) which are having adverse environmental impacts on receiving waters and to identify priorities for remedial action. Biological, aesthetic and water quality criteria have been developed to assess and prioritise the impact of 882 STWs operated by DCWW in the Welsh Region. The strategy has been developed over two phases. Phase 1 has already been reported (May 1992) and this report covers Phase 2 during which assessment of all STWs has been completed and the final ranking of STWs for remedial action has been determined.

593 works have been assessed as having no environmental impact (category A), 268 works have been assessed as having an environmental impact (category B) and 21 works have been abandoned since the strategy was begun.

Inland and tidal STWs were prioritised separately and ranked in order of their environmental impact based on up to six criteria. These rankings will form the basis of discussions between the NRA and DCWW on the priorities for spending on STW improvements in their AMP2 (Asset Management Plan) Investment Programme, which covers the 20 year period from 1995 onwards.

The strategy makes recommendations that the NRA should conduct consent reviews of all category B works in line with an agreed timetable of improvements by DCWW. All category A works consents should also be reviewed to ensure they are environmentally protective and where appropriate to convert them to descriptive consents. The resourcing of, and methodology for, carrying out these reviews should be considered by the Regional Consenting Group.

The strategy also makes recommendations on future NRA monitoring programmes required to assess the performance of sewage treatment works. The recommendations are consistent with those already issued through the Statutory and (draft) Permissive Sampling guidelines. Recommendations are also made for the future biological assessment of STW impacts. As a priority, biological assessments should be carried out on all sewage works following remedial action, and only when satisfactory improvements have been demonstrated should these works be dropped from the prioritised list for improvements. Improvements in receiving water biological quality should also be assessed following removal of discharges from abandoned works.

In the longer term a rolling programme of biological assessments of sewage works should be implemented and the resource implications of various rolling programme options should be considered by the Regional Biology Group.

## TERMS OF REFERENCE:

To identify those Dŵr Cymru Welsh Water sewage treatment works which will require remedial measures to overcome adverse environmental impacts, and to identify priorities for expenditure.

### 1.0 INTRODUCTION

In the NRA's Welsh Region, sewage treatment and disposal services are provided to an equivalent population of 2.6 million. Dŵr Cymru Welsh Water (DCWW) operate 882 sewage treatment works (STWs) which between them treat about 50% of this population. Effluent discharges from these works have the potential to do serious harm to the aquatic environment unless they comply with suitable, environmentally protective consents. The NRA has been carrying out a strategic review of all DCWW STWs in order to identify those which are having an adverse environmental impact and which will require remedial work to improve effluent quality. This is in addition to, and irrespective of the requirements of the Urban Wastewater Treatment Directive (UWWTD) which will have to be met by DCWW as a priority for capital spending post-1995. The strategy has developed over two phases.

Phase 1 of the Strategy (Sewage Treatment Works Remedial Strategy - Final Report - November 1991) put the 882 DCWW STWs into one of the following three categories:-

- i) Category A: contained 283 works at which the existing information indicated that there was no current environmental impact. No improvement work was required provided that the receiving water quality continued to meet its objectives and the discharge continued to comply with an environmentally protective consent.
- ii) Category B: contained 126 works with confirmed or suspected environmental impact at which there was an urgent need for improvement work.
- iii) Category C: contained 473 works for which further data were needed before the extent of any environmental impact could be reliably determined and the works allocated to either Category A or Category B.

Phase 2 of the STW Strategy involved collecting the additional data for reclassifying the Category C works and confirming the classification of a number of others. Also DCWW asked for further information in order to confirm the environmental impact of 40 of the Category B works. This report covers the output from Phase 2 which had the following specific objectives.

### 1.1 Specific Objectives for Phase 2.

- o To collect the additional information necessary to confirm the environmental impact of the 40 Category B works at which DCWW asked for further investigations.
- o To collect further information to allow works currently in Category C to be reclassified into Category A or Category B.
- o To prioritise all the Category B works in terms of their requirements for future remedial action.

This information will be used to direct DCWW's AMP2 investment programme, relating to improvements at sewage treatment works for the 20 year period from 1995 onwards, and will also guide subsequent NRA programmes for the review of discharge consents and the environmental monitoring of sewage treatment works.

This strategy only covers discharges from sewage treatment works operated by DCWW where either just primary treatment or primary and secondary treatment takes place. Discharges of crude sewage, screened or macerated sewage, Combined Sewer Overflows (CSOs) and all discharges from works not operated by DCWW are not considered here. Parallel strategies are being run to identify future requirements for some of these other discharges. Discharges from private or other STWs will be addressed by a separate strategy in due course.

### 2.0 STRATEGIC APPROACH

(See following flow diagram for summary)

#### 2.1 Assessment of Environmental Impact

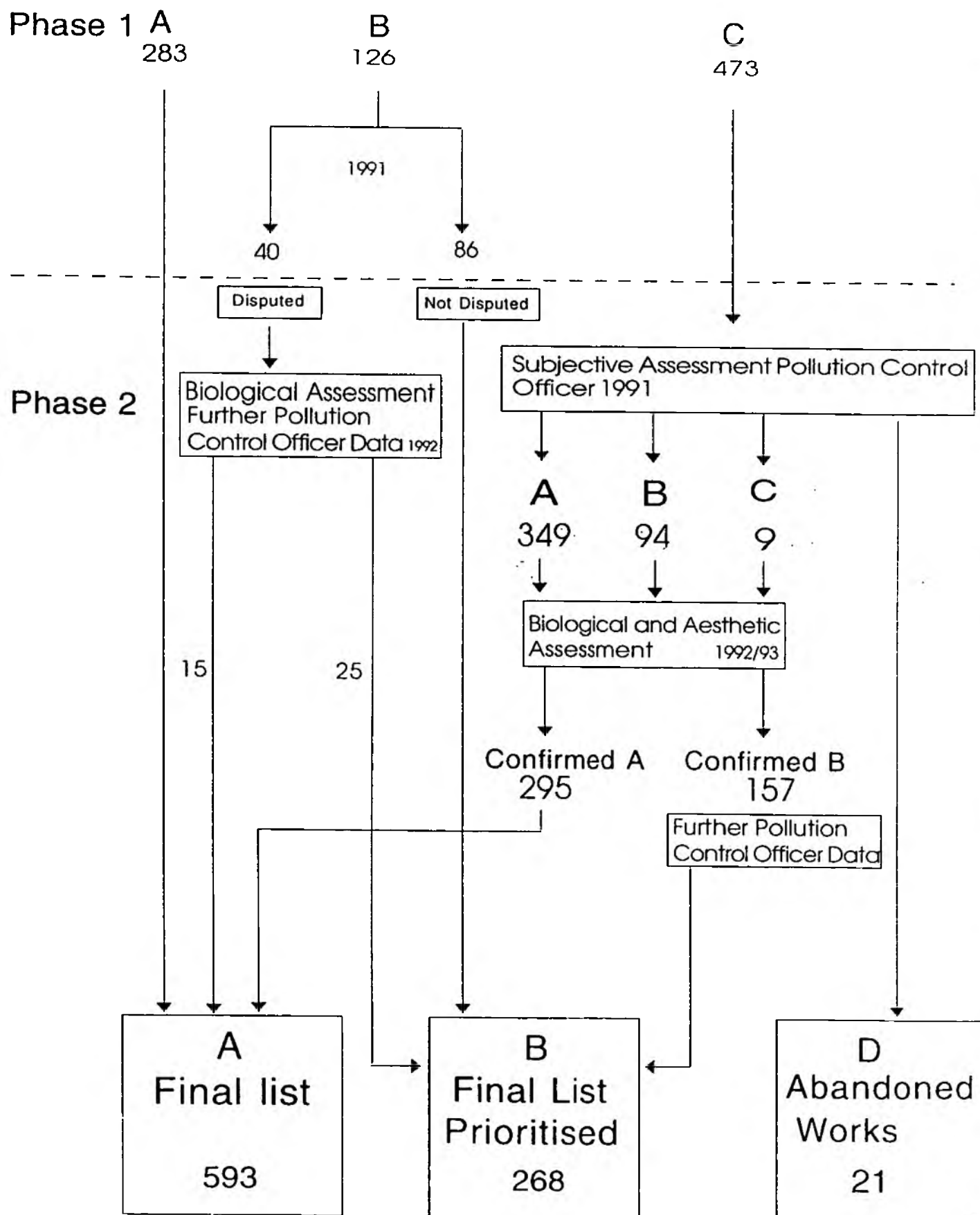
In the past, programmes for improvement work at STWs have been drawn up on the basis of a number of criteria including cost, operational requirements, and on-site factors. The NRA requires environmental considerations to be given greater weighting in assessing future schemes, and the proposed priorities for further action are based on the environmental impact of discharges from STWs and the importance attached to reducing their impact.

Phase 1 assessed the works in terms of their environmental impact with regard to certain available criteria (see Phase 1 Report, Appendix 2 for further details). The following general criteria were used in the Phase 2 assessment and are described in detail in Appendix 1.

- o Compliance with the receiving water quality objectives.
- o Compliance with EC Directives.
- o Impact on receiving water uses.
- o STW features
- o Improvement work planned or carried out

In addition biological impact data collected during July - September in 1991 and 1992 were used to give each inland STW a biological impact rating (see Appendix 2 for further details). The criteria used for this were briefly:

# Coastal and Inland Waters Welsh Water STWs



- o Decrease in BMWP score between upstream and downstream of the discharge.
- o Decrease in the abundance of pollution sensitive taxa between upstream and downstream of the discharge.
- o Presence of sewage fungus in the mixing zone of the discharge.
- o Presence of sewage fungus downstream of the mixing zone.

During the 1992 biological surveys an extended set of criteria were also used to assess the Aesthetic Impact of each STW on the receiving water. (See Appendix 3 for further details).

## 2.2 Disputed Category B Works from Phase 1

In order to reassess and confirm the ranking of the 40 disputed Category B works from Phase 1, more information was gathered from the relevant Pollution Control Officers during 1992 and 1993. This included the above criteria which are detailed in Appendix 1. As a result a number were reclassified as A and others were subjected to further biological assessments.

## 2.3 Category C Works from Phase 1

These were works where existing information indicated a suspected or potential environmental impact associated with the discharge, but where further information was needed to confirm such an impact.

Initially, in February 1992, all Category C works were subjectively placed in Category A or Category B, by Area Pollution Control Officers, based on existing information and local knowledge. The resulting categorisations were sent for information to DCWW and were used to prioritise biological impact assessment surveys on the inland STWs. The biological surveys were completed over two years with the subjective B works being surveyed first.

Further information (on receiving water quality, uses affected etc. see Appendix 1) was obtained from the relevant Pollution Control Officers for those STWs where the biological assessment showed an environmental impact on the receiving water. The above criteria were then used, with the biological assessment to produce the final ranking of Category B works.

## 2.4 Use of Biological Impact Assessment

All those Disputed Category B and Category C inland STWs from Phase 1, which were shown in Phase 2 to be having a biological impact rating of 1 or 2, were placed into Category B. Those not having a biological impact (ie. with a rating of 0) were placed into Category A. Where the biological impact was solely due to a decrease in abundance of high scoring taxa, the substrate quality at the biological sampling sites was checked and, if substrate type alone could account for the upstream and downstream difference, the biological impact was ignored and the works was

placed into Category A. Any works placed into Category B, but which were considered by Pollution Control staff not to need remedial work (usually because the problems had already been rectified) remained in Category B but comments were recorded. These works will need to be reassessed biologically before they can be moved into Category A (see Recommendations).

Where a STW discharged to a standing water (on which the standard biological assessment techniques could not be used) and there was evidence of significant biological impact in the receiving water (eg. eutrophication), then a subjective biological impact rating of 2 was assigned. Where there was no significant impact a rating of 0 was assigned.

#### 2.5 Undisputed Category B Works from Phase 1

These STWs have remained in Category B without further assessment in Phase 2. However, even though they were undisputed Category B works in 1991, some do not appear to be having a biological impact on the receiving water and are therefore ranked well down the list of priorities. They must remain in Category B until a further assessment of their impact has been made by Pollution Control, after which, if appropriate, they may be placed into Category A.

#### 2.6 Category A Works from Phase 1

These works from Phase I of the strategy have remained in Category A for this phase of the strategy.

#### 2.7 Output from Phase 2

Appendices 5 - 7 separately list those STWs which discharge to inland and tidal waters in the Northern Division, South Eastern Division and South Western Division respectively and show the category to which each works has been assigned.

#### 2.8 Abandoned Works

Twenty one works, which were previously in Category B, have been abandoned since Phase 1 was completed and these have been put into a third Category D and are listed separately in Appendix 8.

#### 3.0 PRIORITISATION OF CATEGORY B WORKS FOR REMEDIAL ACTION

The criteria used in the final prioritisation of the Category B works are detailed in Appendix 4. These criteria were selected on the basis of availability, consistency and reliability from the larger databases collected in both phases. Different criteria were used for inland and tidal discharges, primarily because biological techniques for assessing tidal discharges are not well established and couldn't be used. Also Long Term River Quality Objectives are not applicable to tidal waters. Data on the impact of tidal discharges were therefore much more limited and greater emphasis has been given to location of the outfall and impacts on uses.



The prioritisations were performed in two stages:

Firstly STWs were grouped on the basis of the number of category 2, 1 or 0 scores they received for all six criteria. So, for example, STWs scoring 4 x Category 2 scores and 2 x Category 1s were grouped above STWs scoring 3 x Category 2 scores and 3 Category 1s, and so on.

Secondly, within each group, works were ranked against each of the inland or tidal criteria in turn and in descending order of their perceived importance as measures of environmental impact. The priority orders for the two sets of criteria are given below. They were determined following numerous trials and data manipulations and gave the most consistent and acceptable descriptions of priorities across the Region. The end result is a string of scores which determines the ranking of a works within each group.

The criteria used and the order in which they were applied in the second stage of the ranking exercise were as follows:-

#### Inland Water Impact Criteria

1. Cause of EC Directive failure in receiving water.
2. Biological Impact caused by the STW.
3. Aesthetic Impact caused by the STW.
4. Cause of LTRQO failure in receiving water.
5. Constraints caused by the STW on the receiving water uses.
6. Hydraulic overloading of the STW.

#### Tidal Water Impact Criteria

1. Cause of EC Directive failure in receiving water.
2. Position of outfall in relation to low water.
3. Aesthetic Impact caused by the discharge.
4. STW discharging to a specially designated area.
5. Constraints caused by the STW discharge on the receiving water uses.

Tables 1 and 2 show the rankings for all the inland and tidal (respectively) Category B STWs in the Region from those with the greatest, most severe impact to those with least impact.

STWs on which remedial work has already been carried out, but which have not yet been reassessed to determine the environmental impact of the improved effluent quality, remain in the lists. Any works on which improvements have been carried out during the last three years are identified by a "1" in the "Recent Work Done" column of Tables 1 and 2.

Table 1

## Category B Inland STM Regional Prioritised List

1

| Consent Ref. | Works Name                  | Works Grid Ref | Ranking Criteria |   |   |   |   |   | AREA | Work Recently Assessed?<br>done | Biologically Assessed? |
|--------------|-----------------------------|----------------|------------------|---|---|---|---|---|------|---------------------------------|------------------------|
|              |                             |                | 1                | 2 | 3 | 4 | 5 | 6 |      |                                 |                        |
| 1            |                             |                |                  |   |   |   |   |   |      |                                 |                        |
| BH0054701    | BOWSTREET (PENRHYNCOCH)     | SN 61900-84200 | 2                | 2 | 2 | 2 | 2 | 2 | W    | no                              | yes                    |
| 2            |                             |                |                  |   |   |   |   |   |      |                                 |                        |
| BG0007701    | NARBERTH EAST               | SN 12300-15200 | 0                | 2 | 2 | 2 | 2 | 2 | W    | yes                             | yes                    |
| CM0017601    | RUTHIN                      | SJ 12170-59310 | 0                | 2 | 2 | 2 | 2 | 2 | N    | no                              | yes                    |
| 4            |                             |                |                  |   |   |   |   |   |      |                                 |                        |
| BP0063801    | LUDCHURCH                   | SN 15000-10700 | 0                | 2 | 2 | 2 | 2 | 1 | W    | no                              | no                     |
| 5            |                             |                |                  |   |   |   |   |   |      |                                 |                        |
| CM0094701    | KELSTERTON                  | SJ 27980-70690 | 0                | 2 | 2 | 2 | 1 | 2 | N    | yes                             | no                     |
| 6            |                             |                |                  |   |   |   |   |   |      |                                 |                        |
| BC0006801    | GARNSWLLT                   | SN 62200-10200 | 2                | 1 | 1 | 2 | 2 | 1 | W    | no                              | yes                    |
| 7            |                             |                |                  |   |   |   |   |   |      |                                 |                        |
| BC0016601    | TREBANOS                    | SN 71300-03300 | 2                | 0 | 1 | 2 | 2 | 1 | W    | yes                             | yes                    |
| 8            |                             |                |                  |   |   |   |   |   |      |                                 |                        |
| CM0082201    | QUEENSFERRY                 | SJ 32190-68390 | 0                | 2 | 2 | 2 | 1 | 1 | N    | yes                             | yes                    |
| 9            |                             |                |                  |   |   |   |   |   |      |                                 |                        |
| AL1003501    | WEOBLEY                     | SO 39580-52030 | 0                | 2 | 2 | 2 | 0 | 1 | E    | yes                             | yes                    |
| 10           |                             |                |                  |   |   |   |   |   |      |                                 |                        |
| CG0078001    | LLANGFNI                    | SH 46400-74500 | 0                | 1 | 2 | 2 | 2 | 1 | N    | yes                             | yes                    |
| 11           |                             |                |                  |   |   |   |   |   |      |                                 |                        |
| CM0081001    | BUCKLEY TY GWYN             | SJ 27890-62220 | 0                | 1 | 2 | 2 | 2 | 0 | N    | yes                             | yes                    |
| 12           |                             |                |                  |   |   |   |   |   |      |                                 |                        |
| BC0001501    | CROSSHANDS                  | SN 56300-12300 | 0                | 1 | 2 | 2 | 1 | 2 | W    | no                              | yes                    |
| CM0029701    | SYCHDYN                     | SJ 24640-66740 | 0                | 1 | 2 | 2 | 1 | 2 | N    | yes                             | yes                    |
| 14           |                             |                |                  |   |   |   |   |   |      |                                 |                        |
| CG0058801    | LLAN FFESTINIOG             | SH 69900-41500 | 0                | 1 | 2 | 2 | 0 | 2 | N    | no                              | yes                    |
| 15           |                             |                |                  |   |   |   |   |   |      |                                 |                        |
| CG0107601    | FRIOG                       | SH 61800-12500 | 0                | 0 | 2 | 2 | 0 | 2 | N    | no                              | no                     |
| 16           |                             |                |                  |   |   |   |   |   |      |                                 |                        |
| AG0004501    | CILFYNYDD                   | ST 08210-92830 | 0                | 2 | 2 | 0 | 0 | 0 | E    | no                              | yes                    |
| AS1004101    | RUARDEAN (WOODSIDE)         | SO 62500-16280 | 0                | 2 | 2 | 0 | 0 | 0 | E    | no                              | yes                    |
| CG0134001    | WAUNFAWR (ARFON)            | SH 52900-58900 | 0                | 2 | 2 | 0 | 0 | 0 | N    | no                              | yes                    |
| CG0014001    | EFAILNEWYDD                 | SH 35000-35600 | 0                | 2 | 2 | 0 | 0 | 0 | N    | no                              | yes                    |
| CG0043701    | DYFFRYN ARDUDWY             | SH 57800-23600 | 0                | 2 | 2 | 0 | 0 | 0 | N    | no                              | yes                    |
| 21           |                             |                |                  |   |   |   |   |   |      |                                 |                        |
| AW1002401    | HOWEY                       | SO 05050-58820 | 0                | 2 | 1 | 2 | 0 | 1 | E    | no                              | yes                    |
| 22           |                             |                |                  |   |   |   |   |   |      |                                 |                        |
| BE0039501    | LLANGYNDEYRN                | SN 45400-13700 | 0                | 2 | 1 | 0 | 0 | 2 | W    | no                              | yes                    |
| 23           |                             |                |                  |   |   |   |   |   |      |                                 |                        |
| AN0033701    | CYNON                       | ST 08160-92890 | 0                | 2 | 0 | 2 | 1 | 0 | E    | yes                             | yes                    |
| 24           |                             |                |                  |   |   |   |   |   |      |                                 |                        |
| CG0089101    | LLANBERIS                   | SH 58300-59900 | 0                | 2 | 0 | 0 | 2 | 1 | N    | no                              | no                     |
| 25           |                             |                |                  |   |   |   |   |   |      |                                 |                        |
| CM0055401    | LLANASA                     | SJ 12310-83410 | 0                | 1 | 2 | 2 | 0 | 1 | N    | no                              | yes                    |
| AH1002801    | ORCOP (COPWELL ESTATE)      | SO 47900-27900 | 0                | 1 | 2 | 2 | 0 | 1 | E    | no                              | yes                    |
| CG0171601    | ARTHOG GLASFRYN TERRACE     | SH 63100-13520 | 0                | 1 | 2 | 2 | 0 | 1 | N    | no                              | yes                    |
| 28           |                             |                |                  |   |   |   |   |   |      |                                 |                        |
| AH1000301    | BURGHILL                    | SO 47460-42980 | 0                | 1 | 2 | 2 | 0 | 0 | E    | no                              | yes                    |
| 29           |                             |                |                  |   |   |   |   |   |      |                                 |                        |
| BF0169101    | YSTRADGYNLAIS               | SN 77500-08800 | 0                | 1 | 2 | 0 | 1 | 2 | W    | yes                             | yes                    |
| 30           |                             |                |                  |   |   |   |   |   |      |                                 |                        |
| BP0000101    | MAESTEG                     | SS 87700-88400 | 0                | 1 | 1 | 0 | 1 | 2 | W    | yes                             | yes                    |
| 31           |                             |                |                  |   |   |   |   |   |      |                                 |                        |
| BG0034601    | MERRION CAMP (CASTLEMARTIN) | SR 94370-96950 | 0                | 0 | 2 | 2 | 0 | 0 | W    | no                              | no                     |
| 32           |                             |                |                  |   |   |   |   |   |      |                                 |                        |
| BP0219002    | SALEM                       | SN 62140-26650 | 0                | 0 | 2 | 0 | 0 | 1 | W    | no                              | yes                    |
| 33           |                             |                |                  |   |   |   |   |   |      |                                 |                        |
| AH1001901    | KINGSTONE & MADLEY          | SO 42550-37000 | 0                | 0 | 0 | 2 | 2 | 0 | E    | no                              | yes                    |
| 34           |                             |                |                  |   |   |   |   |   |      |                                 |                        |
| CM0040601    | GRESFORD                    | SJ 34880-55780 | 1                | 1 | 2 | 0 | 0 | 0 | N    | yes                             | yes                    |
| 35           |                             |                |                  |   |   |   |   |   |      |                                 |                        |
| BN0166701    | TEMPLETON                   | SN 11400-10900 | 0                | 2 | 1 | 1 | 1 | 1 | W    | no                              | yes                    |
| 36           |                             |                |                  |   |   |   |   |   |      |                                 |                        |
| CG0088601    | BETWS YN RHOS               | SH 90800-73800 | 0                | 2 | 1 | 0 | 1 | 1 | N    | no                              | yes                    |
| 37           |                             |                |                  |   |   |   |   |   |      |                                 |                        |
| BP0034001    | AMROTH                      | SN 17300-07200 | 0                | 2 | 1 | 0 | 1 | 0 | W    | no                              | yes                    |
| 38           |                             |                |                  |   |   |   |   |   |      |                                 |                        |
| AW1004701    | NORTON (OLD)                | SO 30630-66620 | 0                | 2 | 1 | 0 | 0 | 1 | E    | no                              | yes                    |
| CG0073901    | LLANRUG                     | SH 53100-64100 | 0                | 2 | 1 | 0 | 0 | 1 | N    | yes                             | yes                    |
| BG0043501    | GORSGOCH                    | SN 47600-50500 | 0                | 2 | 1 | 0 | 0 | 1 | W    | yes                             | yes                    |
| CM0018301    | CORWEN                      | SJ 08300-43580 | 0                | 2 | 1 | 0 | 0 | 1 | N    | no                              | yes                    |
| 42           |                             |                |                  |   |   |   |   |   |      |                                 |                        |
| BG0011501    | ST ISHMAELS                 | SM 83200-06800 | 0                | 2 | 1 | 0 | 0 | 0 | W    | no                              | yes                    |
| BG0029501    | CLYNDERWEN                  | SN 12100-18300 | 0                | 2 | 1 | 0 | 0 | 0 | W    | no                              | yes                    |
| CM0188501    | GRAIANRHYD                  | SJ 21440-56090 | 0                | 2 | 1 | 0 | 0 | 0 | N    | yes                             | yes                    |
| CM0052101    | CERRIGYDRUDION              | SH 95160-48330 | 0                | 2 | 1 | 0 | 0 | 0 | N    | no                              | yes                    |
| AD0000701    | CRAY                        | SN 89600-24100 | 0                | 2 | 1 | 0 | 0 | 0 | E    | yes                             | yes                    |

Table 1

## Category B Inland STW Regional Prioritised List

2

| Consent Ref. | Works Name                          | Works Grid Ref | Ranking Criteria |   |   |   |   |   | AREA | Work Recently done | Biologically Assessed? |
|--------------|-------------------------------------|----------------|------------------|---|---|---|---|---|------|--------------------|------------------------|
|              |                                     |                | 1                | 2 | 3 | 4 | 5 | 6 |      |                    |                        |
| 47           | CM0011801 LLANFYNYDD                | SJ 27620-56750 | 0                | 2 | 0 | 0 | 0 | 1 | N    | no                 | yes                    |
|              | CG0058001 PENTRAETH                 | SH 52300-78700 | 0                | 2 | 0 | 0 | 0 | 1 | N    | yes                | yes                    |
| 49           | BP0044201 CAREW                     | SN 05200-03500 | 0                | 2 | 0 | 0 | 0 | 0 | W    | yes                | no                     |
|              | BF0083301 PENYGROES/BLAENAU         | SN 61100-13900 | 0                | 2 | 0 | 0 | 0 | 0 | W    | yes                | yes                    |
| 51           | CG0171801 ARTHOG TERRACE            | SH 63981-14714 | 0                | 1 | 2 | 1 | 0 | 1 | N    | no                 | yes                    |
| 52           | BH0065101 PENPARC                   | SN 20600-47200 | 0                | 1 | 2 | 0 | 1 | 1 | W    | no                 | yes                    |
|              | CM0018701 LLANEFYDD                 | SH 98280-70830 | 0                | 1 | 2 | 0 | 1 | 1 | N    | yes                | yes                    |
|              | CM0030801 LEESWOOD                  | SJ 27250-60270 | 0                | 1 | 2 | 0 | 1 | 1 | N    | no                 | yes                    |
| 55           | AC0091901 LLANARTH                  | SO 37700-10700 | 0                | 1 | 2 | 0 | 0 | 1 | E    | no                 | yes                    |
| 56           | BH0064701 LETTERSON EAST            | SM 95400-29500 | 0                | 1 | 2 | 0 | 0 | 0 | W    | no                 | yes                    |
| 57           | CG0029101 ABERGYNOLWYN              | SH 67400-07100 | 0                | 1 | 1 | 2 | 0 | 1 | N    | no                 | yes                    |
| 58           | BG0012001 LANGDON                   | SN 10500-07300 | 0                | 1 | 1 | 1 | 1 | 2 | W    | no                 | yes                    |
| 59           | CG0075801 LLANGYBI                  | SH 43000-40300 | 0                | 1 | 1 | 1 | 0 | 2 | N    | no                 | yes                    |
| 60           | CM0022201 PANDY                     | SJ 19680-35880 | 0                | 1 | 1 | 0 | 2 | 0 | N    | no                 | yes                    |
| 61           | CG0156201 DOLWYD                    | SH 81750-77770 | 0                | 1 | 1 | 0 | 1 | 2 | N    | yes                | yes                    |
|              | BA2001101 CRYNANT                   | SN 78900-04000 | 0                | 1 | 1 | 0 | 1 | 2 | W    | yes                | yes                    |
|              | CG0114601 LLAN PENMACHNO            | SH 79200-50800 | 0                | 1 | 1 | 0 | 1 | 2 | N    | no                 | yes                    |
|              | CG0152101 DOLWYDDELAN               | SH 73900-52400 | 0                | 1 | 1 | 0 | 1 | 2 | N    | no                 | yes                    |
| 65           | BN0013701 HENLLAN                   | SN 35400-40200 | 0                | 1 | 1 | 0 | 0 | 2 | W    | no                 | yes                    |
| 66           | CG0085701 BETHEL                    | SH 51600-65200 | 0                | 1 | 0 | 2 | 1 | 1 | N    | yes                | yes                    |
| 67           | CG0084001 LLANFAES (A)              | SH 60800-77700 | 0                | 1 | 0 | 0 | 2 | 0 | N    | yes                | yes                    |
| 68           | CM0095701 BARTON CODDINGTON LANE    | SJ 44700-54400 | 0                | 0 | 2 | 0 | 1 | 1 | N    | no                 | no                     |
| 69           | CM0024401 CILCAIN/PANTYMWYN         | SJ 19100-65500 | 0                | 0 | 2 | 0 | 0 | 1 | N    | no                 | no                     |
| 70           | BN0280301 REYNALTON                 | SN 09000-08700 | 0                | 0 | 1 | 2 | 1 | 1 | W    | no                 | yes                    |
| 71           | BP0134701 CAERFACHELL               | SM 79400-27000 | 0                | 0 | 1 | 0 | 2 | 1 | W    | yes                | no                     |
| 72           | BN0015801 BEULAH                    | SN 29500-46300 | 0                | 0 | 0 | 2 | 1 | 1 | W    | no                 | no                     |
|              | AH1002001 LITTLE DEWCHURCH          | SO 53450-31160 | 0                | 0 | 0 | 2 | 1 | 1 | E    | yes                | no                     |
| 74           | BC0006101 LLANSAINT                 | SN 38100-08600 | 0                | 0 | 0 | 2 | 0 | 1 | W    | yes                | yes                    |
|              | CG0155701 ARTHOG WESLEY TERRACE     | SH 64680-14760 | 0                | 0 | 0 | 2 | 0 | 1 | N    | no                 | no                     |
|              | CG0171701 ARTHOG CASTELL            | SH 63730-14240 | 0                | 0 | 0 | 2 | 0 | 1 | N    | no                 | no                     |
| 77           | AL1000501 BREDENBURY (GRENDON FIRS) | SO 60050-56850 | 0                | 0 | 0 | 2 | 0 | 0 | E    | no                 | no                     |
|              | AL1001901 MOCCAS                    | SO 35460-42230 | 0                | 0 | 0 | 2 | 0 | 0 | E    | no                 | no                     |
|              | AL1001201 EDWYN RALPH               | SO 64000-58380 | 0                | 0 | 0 | 2 | 0 | 0 | E    | yes                | no                     |
|              | BC0019001 TRIMSARAN                 | SN 43800-06000 | 0                | 0 | 0 | 2 | 0 | 0 | W    | yes                | no                     |
| 81           | BH0072801 FFOSTRASOL                | SN 37400-47400 | 0                | 1 | 1 | 1 | 1 | 1 | W    | yes                | yes                    |
|              | BA1015401 WICK                      | SS 93500-73100 | 0                | 1 | 1 | 1 | 1 | 1 | W    | no                 | yes                    |
| 83           | CM0038001 NORTHOP                   | SJ 25110-68870 | 0                | 1 | 1 | 1 | 0 | 1 | N    | no                 | yes                    |
| 84           | CG0023201 BWLCHYLLYN                | SH 50400-55200 | 0                | 1 | 1 | 1 | 0 | 0 | N    | yes                | yes                    |
| 85           | BJ0078801 GOLDEN GROVE              | SN 59080-20280 | 0                | 1 | 1 | 0 | 1 | 1 | W    | yes                | yes                    |
|              | BN0010301 BLAENFFOS                 | SN 18200-37400 | 0                | 1 | 1 | 0 | 1 | 1 | W    | no                 | yes                    |
|              | BA2001301 RESOLVEN                  | SN 82500-02800 | 0                | 1 | 1 | 0 | 1 | 1 | W    | yes                | yes                    |
| 88           | CM0080401 MALPAS (WHITCHURCH ROAD)  | SJ 49470-46950 | 0                | 1 | 1 | 0 | 1 | 0 | N    | no                 | yes                    |
|              | CM0066101 TREUDDYN                  | SJ 25630-57990 | 0                | 1 | 1 | 0 | 1 | 0 | N    | yes                | yes                    |
| 90           | CM0021801 GLYNCEIRIOG               | SJ 20940-37830 | 0                | 1 | 1 | 0 | 0 | 1 | N    | no                 | yes                    |
|              | BN0077601 LLANFYNYDD                | SN 55700-27100 | 0                | 1 | 1 | 0 | 0 | 1 | W    | no                 | yes                    |
|              | BN0000501 MYDROILIN                 | SN 45800-55400 | 0                | 1 | 1 | 0 | 0 | 1 | W    | no                 | yes                    |
|              | AW1000701 BUILT WELLS               | SO 04680-51380 | 0                | 1 | 1 | 0 | 0 | 1 | E    | yes                | yes                    |
|              | CG0083401 BLAENAU FFESTINIOG        | SH 69500-44100 | 0                | 1 | 1 | 0 | 0 | 1 | N    | no                 | yes                    |
|              | BN0202701 LLANDOVERY                | SN 76130-33140 | 0                | 1 | 1 | 0 | 0 | 1 | W    | yes                | yes                    |
|              | CG0023501 TAI LON                   | SH 44300-50000 | 0                | 1 | 1 | 0 | 0 | 1 | N    | no                 | yes                    |

Table 1

## Category B Inland STW Regional Prioritised List

3

| Consent Ref. | Works Name                      | Works Grid Ref | Ranking Criteria |   |   |   |   |   | AREA | Work Recently done | Biologically Assessed? |
|--------------|---------------------------------|----------------|------------------|---|---|---|---|---|------|--------------------|------------------------|
|              |                                 |                | 1                | 2 | 3 | 4 | 5 | 6 |      |                    |                        |
| CG0076001    | TRAWSFYNYDD (FRONGALED)         | SH 71100-35100 | 0                | 1 | 1 | 0 | 0 | 1 | N    | no                 | yes                    |
| AL1000602    | BROMYARD (NEW)                  | SO 65980-54500 | 0                | 1 | 1 | 0 | 0 | 1 | E    | no                 | yes                    |
| AH1001201    | HEREFORD (ROTHERWAS)            | SO 53210-38450 | 0                | 1 | 1 | 0 | 0 | 1 | E    | yes                | yes                    |
| CG0110001    | DINAS MAWDDWY                   | SH 85900-14400 | 0                | 1 | 1 | 0 | 0 | 1 | N    | no                 | yes                    |
| CM0077901    | NANTGLYN (UPPER AND LOWER TIER) | SJ 00730-62290 | 0                | 1 | 1 | 0 | 0 | 1 | N    | no                 | yes                    |
| BH0050901    | CILYCW                          | SN 75430-39600 | 0                | 1 | 1 | 0 | 0 | 1 | W    | no                 | yes                    |
| BG0001201    | BONCATH                         | SN 20200-39100 | 0                | 1 | 1 | 0 | 0 | 1 | W    | yes                | yes                    |
| CM0007901    | DOLYWERN                        | SJ 22440-37250 | 0                | 1 | 1 | 0 | 0 | 1 | N    | no                 | yes                    |
| 105          |                                 |                |                  |   |   |   |   |   |      |                    |                        |
| CM0045401    | RHYDUCHAF                       | SH 90250-37950 | 0                | 1 | 1 | 0 | 0 | 0 | N    | no                 | yes                    |
| CM0032401    | BRYNEGLWYS                      | SJ 14250-47250 | 0                | 1 | 1 | 0 | 0 | 0 | N    | no                 | yes                    |
| CM0029001    | CHURTON                         | SJ 42460-56350 | 0                | 1 | 1 | 0 | 0 | 0 | N    | no                 | yes                    |
| CM0107601    | HENLLAN                         | SJ 01920-68540 | 0                | 1 | 1 | 0 | 0 | 0 | N    | yes                | yes                    |
| CM0075801    | HOPE                            | SJ 30540-58070 | 0                | 1 | 1 | 0 | 0 | 0 | N    | no                 | yes                    |
| AN0214601    | TRELLECH                        | SO 49900-05900 | 0                | 1 | 1 | 0 | 0 | 0 | E    | no                 | yes                    |
| AB0044801    | USK                             | ST 38800-99600 | 0                | 1 | 1 | 0 | 0 | 0 | E    | no                 | yes                    |
| CG0133701    | TREGARTH                        | SH 60800-68500 | 0                | 1 | 1 | 0 | 0 | 0 | N    | no                 | yes                    |
| CM0044301    | WHITFORD                        | SJ 15140-78180 | 0                | 1 | 1 | 0 | 0 | 0 | N    | no                 | yes                    |
| CM0001301    | WORTHENBURY                     | SJ 42100-45900 | 0                | 1 | 1 | 0 | 0 | 0 | N    | no                 | yes                    |
| CM0049001    | TREFNANT                        | SJ 06100-71710 | 0                | 1 | 1 | 0 | 0 | 0 | N    | no                 | yes                    |
| AW1000901    | CLYRO                           | SO 21700-43800 | 0                | 1 | 1 | 0 | 0 | 0 | E    | no                 | yes                    |
| AB0034101    | ABERBAIDEN                      | SO 26300-14700 | 0                | 1 | 1 | 0 | 0 | 0 | E    | no                 | yes                    |
| AW1000601    | BUILTH ROAD                     | SO 02140-53100 | 0                | 1 | 1 | 0 | 0 | 0 | E    | no                 | yes                    |
| AB0046601    | LLANGYBI                        | ST 37700-96600 | 0                | 1 | 1 | 0 | 0 | 0 | E    | no                 | yes                    |
| CG0070001    | BRITHDIR                        | SH 77000-19400 | 0                | 1 | 1 | 0 | 0 | 0 | N    | no                 | yes                    |
| CG0012701    | DINAS                           | SH 26800-36400 | 0                | 1 | 1 | 0 | 0 | 0 | N    | yes                | yes                    |
| CG0043601    | CAPEL CURIG                     | SH 73700-56800 | 0                | 1 | 1 | 0 | 0 | 0 | N    | no                 | yes                    |
| CG0109401    | TALYBONT (DYFED)                | SN 65700-89100 | 0                | 1 | 1 | 0 | 0 | 0 | N    | no                 | yes                    |
| AW1002301    | HAY-ON-WYE                      | SO 23190-43260 | 0                | 1 | 1 | 0 | 0 | 0 | E    | no                 | yes                    |
| BP0044503    | LLANBOIDY                       | SN 21990-22760 | 0                | 1 | 1 | 0 | 0 | 0 | W    | no                 | yes                    |
| BE0016301    | FOUR ROADS                      | SN 44600-09300 | 0                | 1 | 1 | 0 | 0 | 0 | W    | yes                | no                     |
| AG0017801    | DROPE (WESTBURY HOMES)          | ST 10000-70000 | 0                | 1 | 1 | 0 | 0 | 0 | E    | no                 | yes                    |
| AW1005201    | RHAYADER                        | SN 97800-67400 | 0                | 1 | 1 | 0 | 0 | 0 | E    | no                 | yes                    |
| BP0087901    | KESTON                          | SM 90800-18700 | 0                | 1 | 1 | 0 | 0 | 0 | W    | yes                | yes                    |
| BA1002401    | HIRWAUN                         | SN 93680-06740 | 0                | 1 | 1 | 0 | 0 | 0 | W    | no                 | yes                    |
| BJ0078601    | BETHLEHEM                       | SN 69200-25180 | 0                | 1 | 1 | 0 | 0 | 0 | W    | yes                | yes                    |
| BG0018701    | HERMON                          | SN 20900-32300 | 0                | 1 | 1 | 0 | 0 | 0 | W    | yes                | yes                    |
| AC0140201    | RAGLAN                          | SO 41500-07300 | 0                | 1 | 1 | 0 | 0 | 0 | E    | yes                | yes                    |
| CG0110301    | LLANDDEUSANT                    | SH 34700-84900 | 0                | 1 | 1 | 0 | 0 | 0 | N    | no                 | yes                    |
| CG0110701    | RHYDYCLAFDY                     | SH 32800-34600 | 0                | 1 | 1 | 0 | 0 | 0 | N    | no                 | yes                    |
| CG0089401    | ROWEN                           | SH 76000-71700 | 0                | 1 | 1 | 0 | 0 | 0 | N    | no                 | yes                    |
| BG0019001    | CROESGOCH                       | SM 82700-30600 | 0                | 1 | 1 | 0 | 0 | 0 | W    | no                 | yes                    |
| BN0168801    | CLARACH                         | SN 59900-83900 | 0                | 1 | 1 | 0 | 0 | 0 | W    | no                 | yes                    |
| BC0002501    | REYNOLDSTON                     | SS 46600-90900 | 0                | 1 | 1 | 0 | 0 | 0 | W    | yes                | yes                    |
| BP0013501    | RHYDLEWIS                       | SN 34560-47300 | 0                | 1 | 1 | 0 | 0 | 0 | W    | yes                | yes                    |
| AW1004401    | NEWBRIDGE-ON-WYE                | SO 01450-58170 | 0                | 1 | 1 | 0 | 0 | 0 | E    | no                 | yes                    |
| BH0055701    | NEWGALE                         | SM 85600-22200 | 0                | 1 | 1 | 0 | 0 | 0 | W    | no                 | yes                    |
| BG0017601    | PUNCHESTON                      | SN 01000-29800 | 0                | 1 | 1 | 0 | 0 | 0 | W    | yes                | yes                    |
| AG0010801    | DROPE                           | ST 10800-75900 | 0                | 1 | 1 | 0 | 0 | 0 | E    | no                 | yes                    |
| AC0085601    | BRYNMAWR (BLACKROCK)            | SO 20500-12400 | 0                | 1 | 1 | 0 | 0 | 0 | E    | no                 | yes                    |
| AH1002401    | MORDIFORD (PENTALOE CLOSE)      | SO 57610-37300 | 0                | 1 | 1 | 0 | 0 | 0 | E    | no                 | yes                    |
| CM0006001    | LLANDRILLO                      | SJ 03550-37480 | 0                | 1 | 1 | 0 | 0 | 0 | N    | no                 | yes                    |
| CM0021701    | PONTFADOG                       | SJ 24170-38440 | 0                | 1 | 1 | 0 | 0 | 0 | N    | no                 | yes                    |
| BN0269501    | LLANYBRI                        | SN 33350-12870 | 0                | 1 | 1 | 0 | 0 | 0 | W    | no                 | yes                    |
| AW1005101    | PRESTEIGNE                      | SO 32400-64300 | 0                | 1 | 1 | 0 | 0 | 0 | E    | yes                | yes                    |
| AW1001101    | CROSS GATES                     | SO 08900-64680 | 0                | 1 | 1 | 0 | 0 | 0 | E    | yes                | yes                    |
| CG0077701    | PENTREFOELAS                    | SH 87000-51300 | 0                | 1 | 1 | 0 | 0 | 0 | N    | no                 | yes                    |
| AH1002901    | PANDY                           | SO 33560-22730 | 0                | 1 | 1 | 0 | 0 | 0 | E    | yes                | yes                    |
| CG0110101    | GALLTYFOEL                      | SH 58300-62700 | 0                | 1 | 1 | 0 | 0 | 0 | N    | no                 | yes                    |
| CM0018901    | LLANSANNAN                      | SH 93710-66010 | 0                | 1 | 1 | 0 | 0 | 0 | N    | yes                | yes                    |
| CM0123501    | MELIN-Y-WIG                     | SJ 04090-48680 | 0                | 1 | 1 | 0 | 0 | 0 | N    | no                 | yes                    |
| AL1003401    | ULLINGSWICK (DINMARSH)          | SO 58670-48930 | 0                | 1 | 1 | 0 | 0 | 0 | E    | no                 | yes                    |
| AD0000901    | TRECASTLE                       | SN 88000-29000 | 0                | 1 | 1 | 0 | 0 | 0 | E    | no                 | yes                    |
| AH1003701    | TARRINGTON                      | SO 61520-41490 | 0                | 1 | 1 | 0 | 0 | 0 | E    | no                 | yes                    |
| AL1001501    | KINGTON                         | SO 30640-57000 | 0                | 1 | 1 | 0 | 0 | 0 | E    | yes                | yes                    |
| AD0001701    | TALYBONT                        | SO 12200-22800 | 0                | 1 | 1 | 0 | 0 | 0 | E    | no                 | yes                    |
| CG0108301    | GYRN GOCH                       | SH 40350-48630 | 0                | 1 | 1 | 0 | 0 | 0 | N    | no                 | yes                    |
| AG0007801    | PONTSTICILL                     | SO 05900-10700 | 0                | 1 | 1 | 0 | 0 | 0 | E    | no                 | yes                    |
| AD00002501   | LITTLE MILL                     | SO 33600-02600 | 0                | 1 | 1 | 0 | 0 | 0 | E    | no                 | yes                    |
| AN0115601    | PENYBONT                        | SO 11630-63840 | 0                | 1 | 1 | 0 | 0 | 0 | E    | no                 | yes                    |
| AC0140701    | LLANDDEW                        | SO 05200-30900 | 0                | 1 | 1 | 0 | 0 | 0 | E    | no                 | yes                    |
| BG0000401    | MAENCLOCHOG                     | SN 07600-26800 | 0                | 1 | 1 | 0 | 0 | 0 | W    | no                 | yes                    |
| AW1002701    | LLANDEGLEW                      | SO 13760-63080 | 0                | 1 | 1 | 0 | 0 | 0 | E    | no                 | yes                    |
| AB0046101    | LLANELLEN                       | SO 30300-11100 | 0                | 1 | 1 | 0 | 0 | 0 | E    | yes                | yes                    |
| AW1005301    | TALGARTH                        | SO 15100-34700 | 0                | 1 | 1 | 0 | 0 | 0 | E    | no                 | yes                    |
| CM0095001    | HANMER ARROWRY                  | SJ 46130-38980 | 0                | 1 | 1 | 0 | 0 | 0 | N    | yes                | yes                    |
| AW1003801    | LLANWRTHWL                      | SN 97700-63050 | 0                | 1 | 1 | 0 | 0 | 0 | E    | no                 | yes                    |

Table 1 Category B Inland STW Regional Prioritised List

4

|           | Consent Ref. | Works Name                     | Works Grid Ref | Ranking Criteria |   |   |   |   |   | AREA | Work Recently done | Biologically Assessed? |
|-----------|--------------|--------------------------------|----------------|------------------|---|---|---|---|---|------|--------------------|------------------------|
|           |              |                                |                | 1                | 2 | 3 | 4 | 5 | 6 |      |                    |                        |
| 175       | AN0179401    | LLWYNON (OLD WTW AND LLWYNON H | SO 01300-11200 | 0                | 1 | 1 | 0 | 0 | 0 | E    | no                 | yes                    |
|           | AN0035901    | CRADOC                         | SO 00378-30142 | 0                | 1 | 1 | 0 | 0 | 0 | E    | no                 | yes                    |
|           | BG0022201    | ST NICHOLAS                    | SM 89900-35700 | 0                | 1 | 0 | 0 | 1 | 0 | W    | no                 | no                     |
| 176       | BG0037301    | NANTERNIS                      | SN 36800-57100 | 0                | 1 | 0 | 0 | 0 | 1 | W    | yes                | yes                    |
|           | CM0063901    | PWLLGLAS                       | SJ 11950-54650 | 0                | 1 | 0 | 0 | 0 | 1 | N    | yes                | yes                    |
|           | CG0078101    | LLANFAGLAN                     | SH 46800-59400 | 0                | 1 | 0 | 0 | 0 | 1 | N    | no                 | yes                    |
|           | CM0003401    | LLANGERNYW                     | SH 87800-67580 | 0                | 1 | 0 | 0 | 0 | 1 | N    | yes                | yes                    |
|           | BG0038701    | CROSS INN AND NEBO             | SN 54600-65200 | 0                | 1 | 0 | 0 | 0 | 1 | W    | yes                | yes                    |
|           | AL1003101    | STOKE LACY (WESTBURY)          | SO 62390-50460 | 0                | 1 | 0 | 0 | 0 | 1 | E    | yes                | yes                    |
|           | BN0085301    | TALLEY                         | SN 64060-31820 | 0                | 1 | 0 | 0 | 0 | 1 | W    | no                 | yes                    |
|           | CG0058301    | GWALCHMAI                      | SH 39500-75500 | 0                | 1 | 0 | 0 | 0 | 1 | N    | yes                | yes                    |
|           | CG0030701    | EGLWYSBACH                     | SH 80100-70900 | 0                | 1 | 0 | 0 | 0 | 1 | N    | yes                | yes                    |
|           | 185          | AL1001401                      | KINGSLAND      | SO 45370-60560   | 0 | 1 | 0 | 0 | 0 | 0    | E                  | no                     |
| BG0003501 |              | CASTLEMORRIS                   | SM 90200-31600 | 0                | 1 | 0 | 0 | 0 | 0 | W    | no                 | no                     |
| AW1001701 |              | VELINDRE                       | SO 18400-36700 | 0                | 1 | 0 | 0 | 0 | 0 | E    | no                 | yes                    |
| AH1002201 |              | MORETON-ON-LUGG                | SO 51350-45180 | 0                | 1 | 0 | 0 | 0 | 0 | E    | no                 | yes                    |
| CG0134401 |              | BRYNREFAIL (DEINIOLEN)         | SH55700-63000  | 0                | 1 | 0 | 0 | 0 | 0 | N    | no                 | yes                    |
| BJ0078501 |              | ASHFIELD ROW                   | SN 69430-28430 | 0                | 1 | 0 | 0 | 0 | 0 | W    | no                 | yes                    |
| AW1003501 |              | LLANGUNLLO                     | SO 21500-71000 | 0                | 1 | 0 | 0 | 0 | 0 | E    | no                 | yes                    |
| AN0106401 |              | LLANSOY                        | SO 43900-02050 | 0                | 1 | 0 | 0 | 0 | 0 | E    | no                 | yes                    |
| AL1001701 |              | LUSTON & YARPOLE               | SO 49100-63700 | 0                | 1 | 0 | 0 | 0 | 0 | E    | no                 | yes                    |
| CM0001201 |              | LLANARMON-YN-IAL               | SJ 19000-55880 | 0                | 1 | 0 | 0 | 0 | 0 | N    | yes                | yes                    |
| CG0076501 |              | CWM PENMACHNO                  | SH 76790-48030 | 0                | 1 | 0 | 0 | 0 | 0 | N    | no                 | yes                    |
| CM0001601 |              | PANDY TUDOR                    | SH 86110-64330 | 0                | 1 | 0 | 0 | 0 | 0 | N    | no                 | yes                    |
| CM0043501 |              | PENYSTRYT                      | SJ 19500-51800 | 0                | 1 | 0 | 0 | 0 | 0 | N    | no                 | yes                    |
| AG0009201 |              | LLANCARFAN                     | ST 05200-69600 | 0                | 1 | 0 | 0 | 0 | 0 | E    | no                 | yes                    |
| AS1003701 |              | ROSS (NEW) LOWER CLEEVE        | SO 58490-23320 | 0                | 1 | 0 | 0 | 0 | 0 | E    | no                 | yes                    |
| BG0016901 |              | SPIITAL                        | SM 97400-22600 | 0                | 1 | 0 | 0 | 0 | 0 | W    | no                 | no                     |
| CG0108101 |              | LLANIESTYN                     | SH 26700-33600 | 0                | 1 | 0 | 0 | 0 | 0 | N    | yes                | yes                    |
| CM0078101 |              | ST ASAPH                       | SJ 03220-75070 | 0                | 1 | 0 | 0 | 0 | 0 | N    | no                 | yes                    |
| CM0062601 |              | LLANYCHAN (RHEWL/GELLIFOR)     | SJ 11420-61770 | 0                | 1 | 0 | 0 | 0 | 0 | N    | no                 | yes                    |
| CG0086001 |              | RHIWLAS                        | SH 57300-66200 | 0                | 1 | 0 | 0 | 0 | 0 | N    | yes                | yes                    |
| 205       | BG0002201    | CAPEL BANGOR                   | SN 65000-80300 | 0                | 0 | 1 | 0 | 1 | 1 | W    | no                 | yes                    |
|           | BG0004801    | DEVILS BRIDGE                  | SN 73800-76700 | 0                | 0 | 1 | 0 | 1 | 1 | W    | no                 | no                     |
| 207       | CM0009601    | TREMEIRCHION                   | SJ 06800-72610 | 0                | 0 | 1 | 0 | 1 | 0 | N    | yes                | yes                    |
| 208       | CM0105501    | TATTENHALL                     | SJ 47830-59180 | 0                | 0 | 1 | 0 | 0 | 1 | N    | no                 | yes                    |
|           | CM0072901    | CLAWDD NEWYDD                  | SJ 08250-52830 | 0                | 0 | 1 | 0 | 0 | 1 | N    | yes                | no                     |
|           | BC0017801    | CARWAY                         | SN 46000-06900 | 0                | 0 | 1 | 0 | 0 | 1 | W    | yes                | no                     |
|           | AH1001101    | HEREFORD (EIGN)                | SO 52210-38760 | 0                | 0 | 1 | 0 | 0 | 1 | E    | yes                | yes                    |
|           | BG0014501    | CLARBESTON ROAD NO 1           | SN 01200-20900 | 0                | 0 | 1 | 0 | 0 | 1 | W    | no                 | yes                    |
|           | BP0219501    | NEWCHAPEL                      | SN 22600-39200 | 0                | 0 | 1 | 0 | 0 | 1 | W    | yes                | yes                    |
| 214       | BN0003601    | NARBETH WEST                   | SN 10300-14200 | 0                | 0 | 1 | 0 | 0 | 0 | W    | yes                | yes                    |
|           | AS1001001    | GLEWSTON (WILSON)              | SO 55550-23370 | 0                | 0 | 1 | 0 | 0 | 0 | E    | no                 | no                     |
| 216       | BG0013101    | TIERS CROSS                    | SM 90300-10800 | 0                | 0 | 0 | 1 | 1 | 0 | W    | no                 | no                     |
| 217       | CG0078701    | LLANFROTHEN GARREG             | SH 60900-42000 | 0                | 0 | 0 | 1 | 0 | 1 | N    | no                 | no                     |
| 218       | CM0009001    | CAERWYS                        | SJ 13330-72890 | 0                | 0 | 0 | 0 | 1 | 1 | N    | yes                | yes                    |
| 219       | CM0009201    | GRAIGPECHAN                    | SJ 14430-54350 | 0                | 0 | 0 | 0 | 0 | 1 | N    | yes                | yes                    |
|           | AL1002701    | SHOBDON                        | SO 39510-61140 | 0                | 0 | 0 | 0 | 0 | 1 | E    | yes                | no                     |
|           | AH1000401    | CLEHONGER                      | SO 44960-37900 | 0                | 0 | 0 | 0 | 0 | 1 | E    | no                 | yes                    |
|           | AS1001201    | GREAT GRAIG - CROSS ASH        | SO 40600-20200 | 0                | 0 | 0 | 0 | 0 | 1 | E    | no                 | no                     |
|           | CM0101301    | CEFN                           | SJ 27500-41620 | 0                | 0 | 0 | 0 | 0 | 1 | N    | no                 | no                     |
|           | AL1000201    | LEOMINSTER (BARONS CROSS)      | SO 47350-58030 | 0                | 0 | 0 | 0 | 0 | 1 | E    | no                 | yes                    |
| 225       | CG0041301    | PENRHOS CAMP                   | SH 33900-33800 | 0                | 0 | 0 | 0 | 0 | 0 | N    | yes                | no                     |
|           | AL1001601    | LEOMINSTER (WORCESTER RD)      | SO 50330-58070 | 0                | 0 | 0 | 0 | 0 | 0 | E    | yes                | no                     |
|           | AS1002101    | LLANDDEWI RHYDDERCH            | SO 35280-13100 | 0                | 0 | 0 | 0 | 0 | 0 | E    | no                 | yes                    |
|           | AN0180901    | CAERWENT                       | ST 47900-90700 | 0                | 0 | 0 | 0 | 0 | 0 | E    | yes                | no                     |
|           | CM0049401    | LLANBEDR D C                   | SJ 13520-59100 | 0                | 0 | 0 | 0 | 0 | 0 | N    | no                 | yes                    |
|           | AH1002301    | MORDIFORD                      | SO 57090-38520 | 0                | 0 | 0 | 0 | 0 | 0 | E    | no                 | no                     |
|           | CM0067501    | CEFN MAIRWEN                   | SJ 02070-72100 | 0                | 0 | 0 | 0 | 0 | 0 | N    | no                 | no                     |
|           |              |                                |                |                  |   |   |   |   |   |      |                    |                        |
|           |              |                                |                |                  |   |   |   |   |   |      |                    |                        |
|           |              |                                |                |                  |   |   |   |   |   |      |                    |                        |

## Key to Criteria

- 1 Cause of EC Directive failure in receiving watercourse
- 2 Biological Impact caused by the STW
- 3 Aesthetic Impact caused by the STW
- 4 Cause of LTRQO failure in receiving water
- 5 Constraints caused by the STW on the uses of the receiving water
- 6 Hydraulic overloading of the STW

Table 2

## Category B Tidal STWs Regional Prioritised List

1

| Consent Ref. | Works name                     | Works Grid Ref | Ranking Criteria |   |   |   |   | Area | Work Recently Done |
|--------------|--------------------------------|----------------|------------------|---|---|---|---|------|--------------------|
|              |                                |                | 1                | 2 | 3 | 4 | 5 |      |                    |
| BF0083607    | LLANELLI                       | SS 50800-98800 | 2                | 1 | 2 | 1 | 2 | W    | no                 |
| BF0177701    | BURRY PORT                     | SN 45300-00700 | 2                | 1 | 1 | 1 | 2 | W    | no                 |
| BC0000201    | PWLL                           | SN 48300 00500 | 2                | 1 | 1 | 1 | 2 | W    | yes                |
| CM0014201    | HESWALL                        | SJ 24900-81790 | 1                | 1 | 2 | 1 | 2 | N    | no                 |
| CG0051701    | PORTHMADOG                     | SH 57300-39000 | 1                | 1 | 2 | 0 | 2 | N    | no                 |
| BH0053401    | PARCYSPLOTTS                   | SN 39800-17800 | 0                | 2 | 1 | 0 | 2 | W    | no                 |
| BP0062301    | LLANGRANOG (SEPTIC TANK & OUTF | SN 30800-54200 | 0                | 1 | 2 | 1 | 2 | W    | no                 |
| BP0063401    | GOODWICK                       | SN 95250-39060 | 0                | 1 | 2 | 0 | 2 | W    | no                 |
| BP0043802    | OGOF MARTHA                    | SN 95390-37760 | 0                | 1 | 2 | 0 | 2 | W    | no                 |
| BP0151701    | FISHGUARD                      | SN 96000-37700 | 0                | 0 | 2 | 0 | 2 | W    | no                 |
| BB3006701    | PENYBONT (MERTHYR MAWR)        | SS 87700-76600 | 1                | 2 | 1 | 1 | 0 | W    | yes                |
| BC0003201    | BYNEA AND HALFWAY STW          | SS 55300-98400 | 1                | 1 | 1 | 1 | 2 | W    | yes                |
| BP0077701    | SAUNDERSFOOT                   | SN 12500-04900 | 1                | 1 | 1 | 0 | 2 | W    | no                 |
| BC0003001    | GOWERTON                       | SS 59600-97300 | 1                | 1 | 0 | 1 | 2 | W    | no                 |
| CM0058401    | FLINT                          | SJ 25780-72440 | 0                | 2 | 0 | 1 | 0 | N    | no                 |
| CG0115101    | MALLTRAETH                     | SH 39800-68500 | 0                | 1 | 2 | 1 | 1 | N    | no                 |
| CM0063501    | BAGILLT (EAST)                 | SJ 22320-75520 | 0                | 1 | 2 | 1 | 1 | N    | no                 |
| CM0017801    | CHESTER                        | SJ 39520-66590 | 0                | 1 | 1 | 1 | 2 | N    | yes                |
| BH0074101    | CARDIGAN                       | SN 17200-46200 | 0                | 0 | 1 | 1 | 2 | W    | no                 |
| BF0147002    | KIDWELLY                       | SN 39900-06200 | 1                | 1 | 0 | 1 | 0 | W    | yes                |
| CG0078501    | CAERNARFON                     | SH 48100-61800 | 0                | 1 | 1 | 1 | 1 | N    | no                 |
| CM0037001    | CONNAHS QUAY                   | SJ 30240-69380 | 0                | 1 | 1 | 1 | 0 | N    | no                 |
| CG0112001    | CRESCENT                       | SH 63200-14800 | 0                | 1 | 1 | 0 | 1 | N    | no                 |
| CG0093701    | LLANBEDR                       | SH 58200-27160 | 0                | 1 | 1 | 0 | 1 | N    | no                 |
| CG0113301    | MAENTWROG                      | SH 66100-40300 | 0                | 1 | 1 | 0 | 0 | N    | no                 |
| CG0145101    | LLANDANWG                      | SH 57170-28600 | 0                | 1 | 1 | 0 | 0 | N    | no                 |
| BP0062101    | ABERARTH                       | SN 47900-64000 | 0                | 1 | 0 | 1 | 1 | W    | no                 |
| BC0018601    | LLANNANT                       | SS 57200 99500 | 0                | 1 | 0 | 1 | 0 | W    | yes                |
| cm0063601    | BAGILLT (WEST)                 | SJ 21350-76630 | 0                | 1 | 0 | 1 | 0 | N    | no                 |
| CM0029801    | GREENFIELD                     | SJ 19900-78160 | 0                | 1 | 0 | 1 | 0 | N    | no                 |
| CG0055301    | LLANDEGFAN                     | SH 56200-72800 | 0                | 0 | 1 | 1 | 0 | N    | no                 |
| CG0093501    | TREBORTH                       | SH 53900 70900 | 0                | 0 | 1 | 0 | 1 | N    | no                 |
| CG0144901    | HARLECH                        | SH 56900-31900 | 0                | 0 | 1 | 0 | 0 | N    | no                 |
| CG0081101    | LLANFAIRPWLL                   | SH 53000-71000 | 0                | 0 | 0 | 1 | 0 | N    | no                 |
| CG0084901    | LLANGOED                       | SH 61300-79300 | 0                | 0 | 0 | 1 | 0 | N    | no                 |
| BP0062701    | ST DAVIDS                      | SM 74100-24500 | 0                | 0 | 0 | 0 | 0 | W    | yes                |
| BP0054801    | OVERTON                        | SS 46500-85000 | 0                | 0 | 0 | 0 | 0 | W    | no                 |

## Key to Ranking Criteria

- 1 Cause of EC Directive Failure in receiving water
- 2 Position of outfall in relation to low water
- 3 Aesthetic Impact caused by STW
- 4 STW discharging to a specially designated area
- 5 Constraints caused by the STW on the uses of the receiving water

#### 4.0 ACTION REPORT

This section outlines the framework which will govern consent reviews and the improvement action programmes for STWs in each of the three categories. Requirements for future STWs performance monitoring programmes are discussed subsequently (section 5)

#### 4.1 Category A Works.

No remedial action will be required at the 593 Category A works (Appendices 5,6,7) provided that the receiving water quality continues to meet objectives. It is therefore important to ensure that there has been no recent deterioration in receiving water quality, attributable to the discharge, since the original assessments were completed. A significant number of current assessments of STWs into Category A have not been biologically assessed. Where a biological assessment has never occurred at a Category A STW, this will be actioned for future monitoring.

However, it may be appropriate to consider consent reviews on the basis of chemical quality only at this stage in the knowledge that most Category A STWs serve small populations or are subject to high dilution in the receiving water. It is therefore proposed that Category A works consents are considered for review as follows:

##### 4.1.1. Review of Category A STWs Consents

NRA initiated consent reviews and resources required will be considered by the Regional Consents Group. The objective of such reviews will be to maintain protection of the receiving water whilst achieving cost savings to the NRA where appropriate (e.g. conversion to Descriptive will reduce chemical monitoring workload and improve pollution prevention controls of the works process).

Category A STWs existing consents are generally of the following types:

- (a) Calculated, river needs consents to achieve RQO.
- (b) Minimum standard numeric consents (e.g. 150/150 WWA issued consents, 50/60 NRA issued consents).
- (c) Performance based consents (whether time-limited or not).
- (d) Descriptive consents (populations <=250).

Apart from exceptional cases, it is not considered necessary to initiate a regional review of consents within types (a) to (c) unless they are candidates for the issue of a Descriptive consent (see below). Such reviews may become necessary in the future as a result of national initiatives or statutory requirements.

For works with consents types (b) and (c), an important case to note is where such consents would legally allow the effluent to deteriorate within existing numeric consent limits and which may cause significant impact on the receiving waters; AMP2 Guidance does not allow for review of these consents in advance of the agreed programme. However, such works should be identified for inclusion in a sub-category A2. Such changes as may be possible within the DCWW investment programme will be utilised to effect

improvement of such works where necessary, taking account current priorities within Category B works. However, where an increase in load would result as a consequence of an INCREASE IN FLOW arising from diversion of other discharges, then these will be treated as a new discharge and subject to review in line with AMP2 Guidance.

The Regional Consents group will identify all Category A works which will be reviewed to a Descriptive consent in line with AMP2 Guidance:

- (i) Population served is  $\leq 250$ . \*
- (ii) Effluent contains no trade effluent.
- (iii) Appropriate treatment is provided (i.e. trickling filter, activated sludge plant, rotating biological contactor, reed bed or equivalent alternative system).
- (iv) The discharge is not close to an area with public access.
- (v) There is no significant environmental impact.

(NB Previous Regional criteria of 100:1 dilution or Warn-Brew prediction of 500mg/l BOD no longer apply)

\* In exceptional cases only, descriptive consents for works with populations between 250 and 2000 may be considered.

#### 4.2 Category B Works.

The NRA will require appropriate remedial action by DCWW to improve the quality of discharges from the 268 STWs in the Category B lists for inland and tidal water discharges. Those STWs which are ranked highest in the B lists are in most urgent need of attention and the DCWW investment programme should reflect these priorities. Improvements to these STWs should be completed within a timescale agreed with the NRA. There may however be other, overriding reasons, which have not been covered by this strategy, which will determine the priority of some works (eg. local political/public pressure or improvement schemes which link works by catchment area) but these will be the exception and will require adequate justification.

In consultation with DCWW, the NRA should review discharge consents for those works which do not at present have long-term, environmentally protective consents, in order to provide effective protection for the receiving waters. This will apply to all works in Category B whether they are meeting their current consents or not. DCWW will then need to take appropriate action to ensure compliance with these revised consents. It is recognised that this is a long-term objective which will only be achieved over an extended time period. The resource implications of reviewing these consents should be considered by the Regional Consenting Group.

It is also recognised that capital expenditure may already be planned or underway at certain STWs to improve discharge quality in order to comply with existing consent conditions. Wherever possible, scheduled capital expenditure for STWs improvements should be reviewed to ensure that work which is planned, or underway, will achieve compliance with new environmentally protective consents rather than existing ones.



Some works in Category B have already had remedial work carried out on them but any resulting improvements in receiving water quality have not yet been assessed. These works will be reassessed as a matter of priority in 1994 and if improvements are demonstrated will be dropped from the B list. However, the impact of other Category B works has been recently reassessed and, despite remedial work, no or inadequate improvements in receiving water quality have been demonstrated. Such works will require further consideration in the AMP2 (Asset Management Plan 2 1995-2015) investment programme.

#### 4.3 Category D Works

The 21 works which have been abandoned since Phase 1 should have their consents revoked and an assessment of the recovery of the receiving water quality should be made as soon as possible. Wherever possible, routine chemical and biological monitoring data should be used to demonstrate such a recovery. All these abandoned works were previously in Category B and improvements in receiving water quality should therefore be evident.

#### 4.4 Other Priorities for AMP2

It is of course recognised that the priorities arising from this strategy will have to be considered in the light of other demands for capital spending arising from EC Directives (eg. the UWWTD) and other initiatives (eg. AMP2 Guidelines), as well as other NRA strategies (eg. Bathing Waters Strategy, CSO Strategy) which may take priority in the investment programme.

#### 4.5 Further Works

Following the commencement of a Total Discharge Strategy in Welsh Region a number of consents have been highlighted which are Dŵr Cymru Welsh Water owned STWs which have not been assessed within this strategy. Investigations should be made to establish if these works exist and if they are having an environmental impact, although this is considered unlikely. These STWs are listed in Appendix 8.

## 5.0 PERFORMANCE MONITORING PROGRAMMES - RECOMMENDATIONS

In principle, the NRA should continue to monitor the performance of sewage treatment works on a regular basis. Wherever possible biological and aesthetic techniques should be used to assess the impact of a discharge on receiving water quality, although chemical monitoring must continue for assessing numeric consent compliance in line with the guidance set out in the statutory monitoring programme. The chemical assessment of the quality of receiving waters at works not subject to statutory requirements, but where biological monitoring is not possible, should also continue.

### 5.1 Biological Monitoring

Biological impact assessments of receiving waters should continue and a rolling programme should be established to ensure that biological information is reasonably contemporary.

A suggested maximum period between surveys is three years, but the resource implications of such a rolling programme should be examined by the Regional Biology Group and an acceptable frequency of sampling determined within the resources available. Category A works with descriptive consents should be included in this programme. However, in order to conserve resources, Category A works should be omitted from this rolling programme if all the following criteria apply:

- o The works is compliant with an environmentally protective numeric consent.
- o There have been no changes in works operation which might lead to a deterioration in effluent quality.
- o The effluent dilution is greater than 100:1

Following any remedial works to improve discharge quality, a survey to assess aesthetic and biological improvements should be completed as a matter of priority. Only when environmental improvements have been confirmed should a works be dropped from the Category B list. Some works in Category B have been reassessed since remedial work was completed, but no or inadequate improvements in receiving water quality was evident and such works have remained in Category B.

The principle of self regulation and impact assessment of new discharges by the discharger is being considered at a National level. If implemented, this would reduce the requirements for biological assessments by the NRA.

In addition to techniques currently used to assess the biological impact of sewage treatment works discharges, it is recommended that the use of RIVPACS predicted:observed BMWP score ratios for the receiving water should be considered for inclusion in the biological impact assessment methodology. This technique gives an assessment of the baseline receiving water quality as well as a further measure of a discharge's impact. However, the RIVPACS model cannot currently be applied to small streams and the

implications of such a development should therefore be considered by the Regional Biology Group and recommendations made.

## 5.2 Chemical Monitoring

Consent compliance samples must be taken at all works with numeric consents, including Category A works (see Section 4.1.1 above) in accordance with the guidelines set out in the Statutory Monitoring Programme. Chemical monitoring should also be used to assess environmental impacts in receiving waters at sites where it is not possible to take biological samples (eg. due to deep water). Area Biologists should advise relevant Pollution Control Officers and Regional Water Quality Planning which works fall into this category each year so that necessary steps can be taken. Such sampling, along with any other requirements for chemical sampling (eg. for special investigations for consent determinations) should follow the Permissive Monitoring Programme Guidelines.

## 5.3 Aesthetic monitoring

Information from chemical and biological monitoring of STWs should be augmented by information on compliance with aesthetic standards. NRA staff visiting STWs to take consent compliance samples and/or carry out impact assessments should also complete an aesthetic assessment of the discharge. Standards used to assess aesthetic impact should be similar to those developed for protection of the Basic Amenity use. This may be time consuming for samplers where the discharge point is a long way from the works and the alternatives for collecting this information need to be examined. The methodology, reporting and resource implications of this recommendation should therefore be referred to the Pollution Control Operations Group (PCOG) for consideration and implementation as appropriate.

## 6.0 RECOMMENDATIONS

1. DCWW and the NRA should discuss investment priorities and timetables for conducting improvement work at those STWs which fall into Category B. The NRA's priorities for action should be determined by the ranking of the works in the Category B lists, but some well justified exceptions, which may override these priorities, are anticipated.

ACTION : 'K' liaison and WQ Planning

2. The relative priority of inland and tidal STWs improvements should be determined alongside the priorities arising from the Combined Sewer Overflow (CSO) and Bathing Water Strategies.

ACTION : 'K' liaison and WQ Planning

3. The NRA should conduct consent reviews of all Category B STWs, in a phased manner consistent with the timetable for improvement work agreed with DCWW within their AMP2 investment programme.

ACTION : Regional Consenting Group

4. The NRA should review the consents within Category A STWs where they are candidates for the issue of a Descriptive consent. Consents for Category A works which would legally allow the effluent to deteriorate within existing numeric consent limits which may cause significant impact on the receiving waters should be identified (Category A2). The NRA should determine a plan of action with the discharger to deal with these works.

ACTION : Regional Consenting Group

5. The Regional Consenting Group should draw up the guidelines and programme for implementing such reviews taking into account other priorities and available resources.

ACTION : Regional Consenting Group

6. Where they are not covered by routine biological monitoring sites, improvements in the biological quality of the receiving waters should be assessed, following the removal of discharges from the 21 abandoned works identified in this strategy. This should be completed in 1994.

ACTION : Area Biologists and WQ Planning

7. Following investment in remedial work by DCWW, biological assessments should be carried out on the improved STW effluents to reassess their impact on the receiving water quality. Only when satisfactory improvements have been demonstrated should works be dropped from the Category B list. This should be a high priority for the future biological work programme and, for the 76 inland works in Category B at which remedial work has already been done, biological assessments should be completed in 1994

ACTION : Area Biologists and WQ Planning

8. In the longer term a rolling programme of biological assessments of all sewage works should be implemented to ensure reasonably contemporary data is available. The frequency of surveys should be determined after the resource implications have been examined by the Regional Biology Group.

ACTION : WQ Planning

9. This rolling programme should include all those Category A STWs where a biological assessment has never been performed, and which are assumed to be having no environmental impact, to confirm that this is the case.

ACTION : WQ Planning

10. Chemical sampling should only be used to assess the environmental impact of STWs on receiving waters where biological sampling is impractical or for special investigations connected with consent determination. In both instances sampling should be consistent with the Permissive Monitoring Programme Guidelines.

ACTION : Pollution Control

11. Aesthetic impact criteria should be incorporated into the assessment of STWs effluents on a routine basis. PCOG should determine the methodology, frequency, reporting guidelines and appropriate training needs for this work.

ACTION : PCOG

12. An investigation of the likely environmental impact of the additional STWs indicated in Appendix 8 should be instigated.

ACTION : PCOG

## APPENDIX 1.

### Details of the Information used for the Assessment of the Environmental Impact of STWs in Phase 2.

For each criterion, a question is posed about the environmental impact of the given discharge. Answers to this question describe the degree of environmental impact associated with the discharge. Possible answers are listed below in order of the impact exerted upon the environment - i.e. the answer representing the most adverse impact is listed first. Information used to answer the questions was collected between June 1992 and May 1993. All information may not have been gathered for each works as the questions were posed to different groups of STWs at different stages of the strategy.

#### 1) Compliance with Receiving Water Quality Objectives

TO BE COMPLETED FOR DISCHARGES TO INLAND WATERS ONLY.

- A) Question: What is the Long Term River Quality Objective target class for the receiving stretch? Please give informal LTRQO for unclassified receiving waters and indicate that it is an informal objective by placing in brackets (if in doubt please give objective for nearest downstream classified stretch).

Possible answers: 1A  
1B  
2

- B) Question: What is the current NWC/DOE class for the receiving stretch (1991 survey)?

- C) Question: What is the extent to which the receiving stretch (or, for unclassified streams, the nearest downstream stretch for which information is available) is compliant with the LTRQO?

Possible answers:- 2 Gross failure to meet LTRQO.  
1 Marginal failure to meet LTRQO.  
0 Compliant with LTRQO.  
N Receiving water quality better than LTRQO.

- D) Question: Does the STW cause non-compliance of the receiving stretch with the Long Term Water Quality Objective?

Possible answers:- 2 Strong likelihood that STW causes non-compliance.  
1 STW may cause non-compliance.  
0 STW does not cause non-compliance.

- E) Question: Is the STW discharge the sole / major cause of non-compliance or are other pollutant inputs also present?

Possible answers:- 2 STW is sole / major cause of non-compliance.  
1 STW is one of a number of inputs causing non-compliance.  
0 STW does not contribute to non-compliance.

- F) Question: On the basis of samples taken over the past THREE years (31.6.89 - 31.6.92) does the receiving stretch comply with quality standards for dissolved oxygen? Use look-up table to assess compliance as a 95%-ile with the following standards:

|                  |                 |
|------------------|-----------------|
| Target class 1A: | >80% saturation |
| Target class 1B: | >60% saturation |
| Target class 2:  | >40% saturation |

Possible answers:- No (N)  
Yes (Y)

- G) Question: On the basis of samples taken over the past ONE year (31.6.91 - 31.6.92) does the receiving stretch comply with quality standards for dissolved oxygen? Use look-up table to assess compliance as a 95%-ile with standards listed for Question 9.

Possible answers:- No (N)  
Yes (Y)

- H) Question: On the basis of samples taken over the past THREE years (31.6.89 - 31.6.92) does the receiving stretch comply with quality standards for biological oxygen demand? Use look-up table to assess compliance as a 95%-ile with the following standards:

|                  |                    |
|------------------|--------------------|
| Target class 1A: | <3 mg/l BOD5 (ATU) |
| Target class 1B: | <5 mg/l BOD5 (ATU) |
| Target class 2:  | <9 mg/l BOD5 (ATU) |

Possible answers:- No (N)  
Yes (Y)

- I) Question: On the basis of samples taken over the past ONE year (31.6.91 - 31.6.92) does the receiving stretch comply with quality standards for biological oxygen demand? Use look-up table to assess compliance as a 95%-ile with standards listed for Question 11.

Possible answers:- No (N)  
Yes (Y)

- J) Question: On the basis of samples taken over the past THREE years (31.6.89 - 31.6.92) does the receiving stretch comply with quality standards for ammonia? Use look-up table to assess compliance as a 95%-ile with the following standards:

|                  |   |
|------------------|---|
| Target class 1A: | <0.4 mg/l $\text{NH}_4^+$   |
| Target class 1B: | <0.9 mg/l $\text{NH}_4^+$   |
| Target class 2:  | No standard. Please state whether ammonia load constrains coarse fishery use. |

Possible answers:- No (N)  
Yes (Y)

- K) Question: On the basis of samples taken over the past ONE year (31.6.91 - 31.6.92) does the receiving stretch comply with quality standards for ammonia? Use look-up table to assess compliance as a 95%-ile with standards listed for Question 13.

Possible answers:- No (N)  
Yes (Y)

2) Coastal / Estuarine Water Quality

TO BE COMPLETED FOR DISCHARGES TO TIDAL WATERS ONLY.

- A) Question: Does the discharge contribute to unacceptable dissolved oxygen levels in the receiving water?

Possible answers: 2 STW is sole / major cause of unacceptable dissolved oxygen levels.  
1 STW is one of a number of inputs causing unacceptable dissolved oxygen levels.  
0 STW has no adverse impact on dissolved oxygen levels.

- B) Question: Does the discharge contribute to unacceptable ammonia levels in the receiving water?

Possible answers: 2 STW is sole / major cause of unacceptable ammonia levels.  
1 STW is one of a number of inputs causing unacceptable ammonia levels.  
0 STW has no adverse impact on ammonia levels.

- C) Question: Does the discharge contribute to unacceptable bacterial concentrations (E. coli / coliforms) in the receiving water?

Possible answers: 2 STW is sole / major cause of unacceptable bacterial concentrations.  
1 STW is one of a number of inputs causing unacceptable bacterial concentrations.  
0 STW has no adverse impact on bacterial concentrations.

- D) Question: Does the discharge contribute to unacceptable nutrient levels in the receiving water?

Possible answers: 2 STW is sole / major cause of unacceptable nutrient levels.  
1 STW is one of a number of inputs causing unacceptable nutrient levels.  
0 STW has no adverse impact on nutrient levels.



- E) Question: Does the receiving water provide adequate dilution and dispersion to meet microbial and aesthetic requirements?

Possible answers: 2 Dilution / dispersion unsatisfactory to meet microbial and aesthetic requirements.  
1 Dilution / dispersion unacceptable to meet aesthetic requirements alone.  
0 Adequate dilution / dispersion available.

- F) Question: Is the receiving water specially designated for conservation purposes in any way? Indicate what the designation is.

Possible answers: 1 Receiving water designated for conservation  
0 Receiving water not designated for conservation

- G) Question: Where is the outfall in relation to Mean Low Water Springs?

Possible answers: 2 Above MHWS  
1 Between MHWS and MLWS  
0 Below MLWS

3) Compliance with EC Directives

- A) Question: Does the STW cause non-compliance of the receiving stretch with any EC Directives?

Possible answers:- 2 Strong likelihood that STW causes non-compliance.  
1 STW may cause non-compliance.  
0 STW does not cause non-compliance.

- B) Question: Is the STW discharge the sole / major cause of non-compliance or are other pollutant inputs also present?

Possible answers:- 2 STW is sole / major cause of non-compliance.  
1 STW is one of a number of inputs causing non-compliance.  
0 STW does not contribute to non-compliance.

- C) Question: Which directives(s) (if any) does the receiving stretch fail to comply with?

Possible answers:- Name the Directive.

4) Receiving Water Uses

- A) Question: Where is the closest downstream potable abstraction?

Possible answers:- 0 No potable abstraction within 1000 metres downstream.  
1 Potable abstraction 500 - 1000 metres downstream.  
2 Potable abstraction within 500 metres downstream.

B) Question: Is there a bathing beach in the vicinity of the discharge?

- Possible answers :
- 0 No bathing use in vicinity of discharge.
  - 1 Non EC identified bathing water influenced by discharge.
  - 2 EC identified bathing water influenced by discharge.

C) Question: How much other water contact recreation is in the vicinity of the discharge?

- Possible answers:
- 0 Negligible water contact recreation in vicinity of discharge.
  - 1 Occasional water contact recreation in vicinity of discharge.
  - 2 Frequent water contact recreation in vicinity of discharge.

D) Question: Is there a shellfishery in the vicinity of the discharge?

- Possible answers:
- 0 No shellfishery influenced by discharge.
  - 1 Shellfishery in vicinity of discharge but discharge has no known public health impact.
  - 2 Discharge has known public health impact on shellfishery.

E) Question: What is the fishery status of the receiving water?

- Possible answers:-
- 0 Cyprinids only.
  - 1 Migratory salmonids.
  - 2 Resident Salmonids.

F) Question: What is the Amenity use of the receiving water?

- Possible answers:-
- 0 Little or none.
  - 1 Moderate.
  - 2 High.

G) Question: What is the conservation status of the receiving water?

- Possible answers:-
- 0 No site with significant conservation status within receiving stretch.
  - 1 Non-designated or locally important conservation site within receiving stretch.
  - 2 Designated conservation site within receiving stretch.

H) Question: Does the discharge prevent or place any constraints on any of the receiving water uses listed above?

- Possible answers:
- 0 No constraints on receiving water recognised uses.
  - 1 Marginal constraints on receiving water recognised uses (please indicate which uses).
  - 2 Significant constraints on receiving water recognised uses (please indicate which uses).

5) STW Features

A) Question: What is the hydraulic loading of the STW?

- Possible answers:-
- 0 Works currently operating within design loading: no overloading foreseeable.
  - 1 Works operating at limit of design load and/or at risk from future development in the sewerage catchment area.
  - 2 Works currently grossly overloaded.

B) Question: Is there any planned development in the sewerage catchment?

- Possible answers:-
- 0 No significant development planned in sewerage catchment.
  - 1 Significant development planned in sewerage catchment within next twenty years.
  - 2 Significant development planned in sewerage catchment within next ten years.

C) Question: Is there any toxic or trade effluent in the works discharge?

- Possible answers:-
- 0 No toxic or trade effluent component in works discharge.
  - 1 Significant toxic or trade effluent component in works discharge.

D) Question: What is the general state of the works?

- Possible answers:-
- 0 Satisfactory
  - 1 Unsatisfactory (e.g. equipment frequently not operating or in poor repair, inadequate maintenance etc.).

E) Question: Have there been any recent changes at the works?

- Possible answers:-
- 0 No recent changes (within three years).
  - 1 Recent changes (e.g. plant upgrading, operational improvements, increase in loading).

F) Question: Outline the nature of any recent changes which have been made at the works.

G) Question: What is the approximate date at which any changes were made at the works?

H) Question: Outline the nature of any planned changes you are aware of and whether you think the changes will lead to any improvement or deterioration in performance.

I) Question: When will the planned work be completed?

J) Question: Is the discharge compliant with the consent?

Possible answers:- 0 Compliant with consent.  
1 Formal sampling.  
2 Prosecution pending.

K) Question: Is consent environmentally protective?

Possible answers:- 0 Yes.  
1 No.

L) Question: Enter the number of public complaints received over the past 12 months (31.6.91 - 31.6.92) relating to separate incidents associated with the discharge.

6) Improvement work

A) Question: Should the works be in Category A or Category B of the STW Strategy?

Possible answers:- A Works satisfactory.  
B Improvement work required in future.

B) Question: What would be the cost benefit of any improvement work?

Possible answers:- 0 Low: little benefit relative to cost of improvements at works.  
1 Medium: moderate benefit relative to cost of improvements at works.  
2 High: much benefit relative to costs of improvements at works.

C) Question: Give comments on current problems, appropriate levels of treatment, and improvements required.

D) Question: Will revenue or capital expenditure be required to bring about the required improvements?

Possible answers:- R Revenue expenditure  
C Capital expenditure

E) Question: What would be the consequences of doing nothing to improve the current situation?

F) Question: What is the likely long term consent condition for BOD limits (95%-ile compliance)?

Possible answers:- 10 - 20  
20 - 30  
30 - 40  
40 (minimum standard)

If the long term consent has already been determined, give the actual BOD limit.

G) Question: What is the likely long term consent condition for NH3 limits (95%-ile compliance)?

Possible answers:- <5

5 - 10

10 - 20

>20

If the long term consent has already been determined, give the actual NH3 limit.

H) Question: Any further relevant comments about the sewage treatment works?

## APPENDIX 2

### Biological Impact Rating

The assessment was carried out by taking biological samples, using the standard 3 minute kick, upstream and downstream of the mixing zone of each discharge in order to apply BMWP scores, and noting the presence of sewage fungus within and downstream of the mixing zone. Four criteria were examined to derive a biological impact rating, namely:

1. >40% decrease in BMWP score D/S cf. U/S ?      YES/NO
2. Decrease in no. of > 3 high scoring taxa ?      YES/NO
3. Sewage fungus present in mixing zone ?      YES/NO
4. Sewage fungus present D/S mixing zone ?      YES/NO

IMPACT RATING:    0 - 4 "NOs"  
                      1 - 1 or 2 "YESs"  
                      2 - 3 or more "YESs"

Those STWs with a biological impact rating of 1 or 2 were assigned to Category B and those with a biological impact rating of 0 were assigned to Category A.

NATIONAL RIVERS AUTHORITY - WELSH REGION

## SEWAGE TREATMENT WORKS AESTHETIC IMPACT INSPECTION SHEET

Works:

Receiving Water:

Inspected by:

NGR:

Weather conditions:

Date:

Time:

River flow:

Spate / Normal / Low / Very low

Effluent flow:

High / Normal / Low

Please score as follows:

0 Absent

1 Trace

2 Sufficient to be objectionable

|                                 | Upstream of<br>discharge | In mixing<br>zone | Below<br>mixing zone |
|---------------------------------|--------------------------|-------------------|----------------------|
| Colour                          |                          |                   |                      |
| Turbidity                       |                          |                   |                      |
| Odour                           |                          |                   |                      |
| Grease / oil                    |                          |                   |                      |
| Foaming                         |                          |                   |                      |
| Excessive<br>biological growth: |                          |                   |                      |
| - Sewage fungus                 |                          |                   |                      |
| - Non sewage fungus             |                          |                   |                      |
| Sewage derived<br>litter:       |                          |                   |                      |
| - Plastic                       |                          |                   |                      |
| - Non plastic                   |                          |                   |                      |
| Terrestrial<br>derived litter   |                          |                   |                      |
| Identifiable<br>faecal solids   |                          |                   |                      |
| Sediment                        |                          |                   |                      |

Photo taken:

Yes / No

Reference number:

COMMENTS:

Method for Aesthetic Impact Assessment using information  
gathered at site visits

The data on aesthetic impact was summarised to a single value by summing the values for each factor in each zone (excluding terrestrial litter) and subtracting the total for the U/S zone from the total for the Mixing Zone + D/S Zone.

The higher the final value, the greater the aesthetic impact the STW is having on the receiving watercourse.

This method of assessing aesthetic impact was not carried out before 1992. For phase I of the strategy the aesthetic impact was assessed subjectively by taking into account the following factors:

1. Presence of sewage solids (eg. paper, plastic, detritus)
2. Presence of sewage fungus
3. Presence of sulphidic growths on the stream bed
4. "Discolouration" of water downstream of the discharge when compared with water upstream
5. Presence of sewage foam on the water surface
6. Compliance of the discharge with minimum standards of service.

Each works was then assigned a "Y" or a "N".

In order to be able to compare the two scoring systems those sampled in 92/93 were placed into bands:

- 2 Aesthetic Impact score  $> 10$
- 1 Aesthetic Impact score  $> 0 < -10$
- 0 No Aesthetic Impact recorded

Those assessed before 1992 were placed into the same bands using the following subjective method:

- 2 Large aesthetic impact in and below the mixing zone
- 1 Small aesthetic impact in and/or below the mixing zone
- 0 No aesthetic impact.



Criteria for prioritising Category B STWs

Criteria used to prioritise the Category B STWs for Remedial Action are listed below. For each criterion a question is posed about the environmental impact of the given discharge. Answers to this question describe the degree of environmental impact associated with the discharge. Possible answers are listed below in order of impact exerted on the environment. Information used to answer the questions was collected during June 1993.

ALL DISCHARGES:

1) Compliance with EC Directives

- A) **Directive Failure:** Does the STW cause non-compliance of the receiving stretch with any EC Directives?

Possible answers:- 2 Strong likelihood that STW causes non-compliance.  
1 STW may cause non-compliance.  
0 STW does not cause non-compliance.

- B) **Partial / Major cause:** Is the STW discharge the sole / major cause of non-compliance or are other pollutant inputs also present?

Possible answers:- 2 STW is sole / major cause of non-compliance.  
1 STW is one of a number of inputs causing non-compliance.  
0 STW does not contribute to non-compliance.

- C) **Which Directive:** Which directives(s) (if any) does the receiving stretch fail to comply with?

2) Biological Impact:

Information provided - 2 Large biological impact  
1 Small biological impact  
0 No biological impact

- 3) Aesthetic Impact: Where there is no objective assessment of aesthetic impact, a subjective judgement taking into account the following factors should be carried out:

1. Presence of sewage solids (eg. paper, plastic, detritus)
2. Presence of sewage fungus
3. Presence of sulphidic growths on the stream bed.
4. 'Discolouration' of water downstream of the discharge when compared with water upstream.
5. Presence of sewage foam on the water surface.
6. Compliance of the discharge with minimum standards of service.

And scored as follows:

- 2 Large aesthetic impact in and below mixing zone  
1 Small aesthetic impact in and/or below mixing zone  
0 No aesthetic impact

4) Compliance with Receiving Water Quality Objectives

INLAND WATERS ONLY:

A) LTRQO: Provide the Long Term River Quality Objective target class (1A, 1B, or 2) for the receiving stretch. Please give informal LTRQO for unclassified receiving waters and indicate that it is an informal objective by placing in brackets (if in doubt please give objective for nearest downstream classified stretch).

B) Partial / Major cause: If the receiving stretch (or, for unclassified streams, the nearest downstream stretch for which information is available) is not compliant with the LTRQO, is the STW discharge the sole / major cause of non-compliance or are other pollutant inputs also present?

2 STW is sole / major cause of non-compliance.

1 STW is one of a number of inputs causing non-compliance.

0 STW does not contribute to non-compliance.

TIDAL WATERS ONLY:

5) Position of Outfall: Where is the outfall in relation to Mean Low Water Springs?

2 Above MHWS

1 Between MHWS and MLWS

0 Below MLWS

6) Special Designation: Is the receiving water specially designated for conservation purposes in any way? Indicate what is the designation.

1 Receiving water designated for conservation.

0 Receiving water not designated for conservation.

ALL DISCHARGES:

7) Constraints on uses: Does the discharge prevent or place any constraints on any of the following receiving water uses? Potable Abstraction, Bathing, Other Water Contact Recreation, Shellfishery, Fishery Status, Amenity Use, Conservation Status. If so indicate which use(s) and score as follows:

0 No constraints on receiving water recognised uses.

1 Marginal constraints on receiving water recognised uses (please indicate which uses).

2 Significant constraints on receiving water recognised uses (please indicate which uses).

8) Hydraulic loading: Score as follows:

0 Works currently operating within design loading: no overloading foreseeable.

1 Works operating at limit of design load and/or at risk from future development in the sewerage catchment area.

2 Works currently grossly overloaded.

## APPENDIX 5

## Northern Area

## Category B Inland STWs Prioritised

| CONSENT<br>REFERENCE | WORKS NAME                | CLASS/<br>UNCLASS | DIRECTIVE       | LTRQO | USES CONSTRAINED            | COMMENTS   |
|----------------------|---------------------------|-------------------|-----------------|-------|-----------------------------|--|
| CM0040601            | GRESFORD                  | C                 | FRESHWATER FISH | 1B    | 0                           |  |
| CM0017601            | RUTHIN                    | C                 | FRESHWATER FISH | 1B    | 2 AESTHETIC, migratory fish | NUMEROUS COMPLAINTS OF SSO'S AND STORM TANK DISCHARGE. HISTORY OF FISH KILLS.          |
| CM0094701            | KELSTERTON                | U                 |                 | (2)   | 1                           |  |
| CM0082201            | QUEENSPERRY               | C                 |                 |       | 1                           | RQO failure / aesthetic impact. Will be tidal by end 1994                              |
| CG0043701            | DYFFRYN ARUDWY            | U                 |                 | (1A)  | 0                           |  |
| CG0134001            | WAUNFAWR (ARFON)          | C                 |                 | 1A    | 0                           |  |
| CG0014001            | EFAILNEWYDD               | U                 |                 | (1A)  | 0                           |  |
| CG0088601            | BETWS YN RHOS             | C                 |                 | 1A    | 1 Stock Watering            | PUMP RATE EXCESSIVE CAUSING POOR SETTLEMENT AND OVERFLOWING OF PRIMARY TANKS           |
| CG0073901            | LLANRUG                   | C                 |                 | 1A    | 0                           | RECENT WORK AND IMPROVED DOSING SHOULD HAVE IMPROVED BIOL. IMPACT. REASSESS            |
| CM0018301            | CORWEN                    | C                 |                 | 1A    | 0                           | High dilution available  |
| CM0188501            | GRAIANRHEDD               | U                 |                 | 1B    | 0                           | MORE ROUTINE DESLUDGING WOULD IMPROVE PERFORMANCE                                      |
| CM0052101            | CERRIGYDRUDION            | C                 |                 | 1B    | 0                           | Low, slow flow in receiving stream   |
| CG0089101            | LLANBERIS                 | C                 |                 | 1A    | 2 FISHERIES, RECREATION     | BMWP NOT POSSIBLE. ALGAL BLOOMS FROM EUTROPHICATION                                    |
| CG0058001            | PENTRAETH                 | U                 |                 | 2     | 0                           | NEW STORM TANK SHOULD REDUCE IMPACT  |
| CM0011801            | LLANFYNYDD                | C                 |                 | 1B    | 0                           | RIVER DRIES UP IN SUMMER. EXTRA DILUTION AVAILABLE D/S, OUTFALL SHOULD BE MOVED        |
| CG0078001            | LLANGFNI                  | C                 |                 | 1B    | 2 SALMONIDS, FOAMING        | MODIFICATION TO WORKS ON GOING   |
| CM0081001            | BUCKLEY TY GWYN           | C                 |                 | 3     | 2 FISHERY/AMENITY           |  |
| CM0029701            | SYCHDYN                   | U                 |                 | (2)   | 1                           | NO DILUTION. COMPLAINTS ETC. CONSTRUCTION WORK AT TIME OF 1993 BIOLOGY SURVEY.         |
| CG0058801            | LLAN FPESTINIOG           | U                 |                 | (1A)  | 0                           | PRONE TO ACTIVATED SLUDGE CARRY OVER   |
| CG0171601            | ARTHOG GLASFRYN TERRACE   | U                 |                 | (1A)  | 0                           | SEPTIC TANK TO SMALL DITCH   |
| CM0055401            | LLANASA                   | U                 |                 | (2)   | 0                           | DEVELOPMENT PROPOSALS - CONSERVATION MAY BECOME A SERIOUS FACTOR INSUFFICIENT DILUTION |
| CG0171801            | ARTHOG TERRACE            | U                 |                 | (1A)  | 0                           |  |
| CM0018701            | LLANEFYDD                 | U                 |                 | (1A)  | 1 STOCK WATERING            | NEW WORK HAS HELPED WORKS PERFORMANCE  |
| CM0030801            | LEESWOOD                  | U                 |                 | (1B)  | 1 AMENITY                   |  |
| CG0029101            | ABERGYNOLWYN              | C                 | NWC/FISH        | 1A    | 0                           |  |
| CG0075801            | LLANGYBI                  | U                 |                 | (1B)  | 0                           | Possible serious infiltration problem  |
| CM0038001            | NORTHOP                   | U                 |                 | (1B)  | 0                           | INSUFFICIENT DILUTION  |
| CG0023201            | BWLCHYLLYN                | U                 |                 | (1A)  | 0                           |  |
| CM0022201            | PANDY                     | C                 |                 |       | 2 fishery, amenity          |  |
| CG0114601            | LLAN PENMACHNO            | C                 |                 | 1A    | 1 AESTHETIC                 |  |
| CG0152101            | DOLWYDELAN                | C                 |                 | 1A    | 1 AESTHETIC                 |  |
| CG0156201            | DOLWYD                    | U                 |                 | (2)   | 1 STOCK WATERING            | SEASONAL SOAKAWAY WAS INEFFECTIVE, GROUND CONDITIONS UNSUITABLE                        |
| CM0080401            | MALPAS (WHITCHURCH ROAD)  | U                 |                 | (1B)  | 1 AMENITY                   | SEWAGE DERIVED DEBRIS. ULTIMATE CONSENT MAY NEED IMPROVEMENT 2ND STAGE REVIEW CONSENT. |
| CM0066101            | TREUDDYN                  | C                 |                 | 1B    | 1 AMENITY                   | D/S SUMMER FLOWS V. LOW. POORLY NITRIFYING WORKS, SEWAGE DEBRIS. NEED BETTER SCREENING |
| CG0110001            | DINAS MAWDDWY             | C                 | NWC/FISH        | 1A    | 0                           |  |
| CG0083401            | BLAENAU FPESTINIOG        | C                 |                 | 1A    | 0                           |  |
| CG0023501            | TAI LON                   | U                 |                 | (1A)  | 0                           | SEPTIC TANK ONLY   |
| CM0007901            | DOLYVERN                  | C                 |                 | 1A    | 0                           | May be incorporated unto Chirk Valley Scheme, will transfer flows to Five Ford's.      |
| CM0021801            | GLYNCEIRIOG               | C                 |                 | 1A    | 0                           | May be incorporated into Chirk Valley Scheme, will transfer flows to Five Ford's.      |
| CG0076001            | TRANSFYNYDD (FRONGALED)   | C                 | NWC/FISH        | 1A    | 0                           |  |
| CM0077901            | NANTGLYN (UPPER AND LOWER | U                 |                 | 1A    | 0                           | High volumes of surface water entering works   |
| CG0012701            | DINAS                     | U                 |                 | (1A)  | 0                           |  |

| CONSENT<br>REFERENCE | WORKS NAME                 | CLASS/<br>UNCLASS | DIRECTIVE       | LTRQO | USES CONSTRAINED | COMMENTS  |
|----------------------|----------------------------|-------------------|-----------------|-------|------------------|---|
| CM0018901            | LLANSANNAN                 | C                 |                 | 1A    | 0                |   |
| CG0133701            | TREGARTH                   | C                 |                 | 1A    | 0                | Consent not reach NRA min standards. Causes gross discolouration in mixing zone       |
| CM0107601            | HENLLAN                    | C                 |                 | 1A    | 0                | DILUTION A PROBLEM  |
| CM0123501            | MELIN-Y-WIG                | C                 |                 | 1A    | 0                |   |
| CM0075801            | HOPE                       | C                 |                 | 1B    | 0                |   |
| CM0006001            | LLANDRILLO                 | U                 |                 | 1A    | 0                | Very large dilution available   |
| CM0049001            | TREFNANT                   | C                 | Freshwater fish | 1B    | 0                |   |
| CG0110301            | LLANDDEUSANT               | U                 |                 | (1A)  | 0                |   |
| CM0095001            | HANMER ARROWRY             | U                 |                 | (2)   | 0                | Sewage debris d/s outfall should be reduced due to COPA sacs.                         |
| CG0108301            | GYRN GOCH                  | U                 |                 | (1A)  | 0                |   |
| CG0110701            | RHYDYCLAFDY                | C                 |                 | 1A    | 0                | NORMALLY GOOD EFFLUENT. NOT REQUIRE CAPITAL WORKS                                     |
| CM0044301            | WHITFORD                   | U                 | 0               | (1B)  | 0                |   |
| CM0001301            | WORTHENBURY                | C                 |                 | 1B    | 0                | Descriptive consent. small works, large dilution                                      |
| CG0110101            | GALLTYFOEL                 | C                 |                 | (1A)  | 0                |   |
| CM0029001            | CHURTON                    | U                 |                 | (2B)  | 0                | DRY UPSTREAM OF OUTFALL   |
| CG0109401            | TALYBONT (DYFED)           | C                 | NWC/FISH        | 1A    | 0                |   |
| CG0089401            | ROWEN                      | C                 |                 | 1A    | 0                | Discharge pipe prone to blocking - causes backing up                                  |
| CG0043601            | CAPEL CURIG                | C                 | Freshwater Fish | 1A    | 0                | Population figure may exceed 250 on maximum loading. PC never seen SF                 |
| CM0045401            | RHYDUCHAF                  | U                 |                 | 1A    | 0 FISHERY        |   |
| CM0021701            | PONTFADOG                  | C                 |                 | 1A    | 0                | May be incorporated into Five Ford's scheme   |
| CG0077701            | PENTREFOELAS               | C                 |                 | 1A    | 0                | PC never seen sewage fungus   |
| CG0070001            | BRITHDIR                   | U                 |                 | (1A)  | 0                |   |
| CM0032401            | BRYNEGLWYS                 | C                 |                 | 1A    | 0 FISHERY        |   |
| CG0085701            | BETHEL                     | U                 |                 | 2     | 1 STOCK WATERING | CONSENT SHOULD BE REVIEWED  |
| CG0084001            | LLANFAES (A)               | U                 |                 | (2B)  | 2 AMENITY        | WORKS WILL GO   |
| CM0003401            | LLANGERNYW                 | C                 |                 | 1A    | 0                | LOCALISED AESTHETIC IMPACT AT DISCHARGE   |
| CG0078101            | LLANFAGLAN                 | C                 |                 | 1A    | 0                |   |
| CM0063901            | PWLLGLAS                   | C                 |                 | 1A    | 0                | WORK HAS BEEN UNDERTAKEN. REASSESS  |
| CG0058301            | GWALCHMAI                  | U                 |                 | 2     | 0                | PROTECTIVE CONSENT NOW IN FORCE   |
| CG0030701            | EGLWYSBACH                 | U                 |                 | 1B    | 0                |   |
| CG0076501            | CWM PENMACHNO              | C                 |                 | 1A    | 0                |   |
| CG0134401            | BRYNREFAIL (DEINIOLEN)     | C                 |                 | 1A    | 0                |   |
| CM0001601            | PANDY TUDOR                | U                 |                 | (1A)  | 0                | NOT REQUIRE CAPITAL WORKS   |
| CM0043501            | PENYSTRYT                  | C                 |                 | 1A    | 0                | REASONABLE WORKS  |
| CM0062601            | LLANYCHAN (RHEWL/GELLIFOR) | C                 |                 | 1B    | 0                | BIOLOGICAL DATA NEEDS REVIEWING   |
| CG0086001            | RHIWLAS                    | C                 |                 | 1A    | 0                |   |
| CM0001201            | LLANARMON-YN-IAL           | C                 | FRESHWATER FISH | 1A    | 0                | NO CAPITAL WORKS REQ. NEW WORKS   |
| CG0108101            | LLANIESTYN                 | U                 |                 | (1A)  | 0                |   |
| CM0078101            | ST ASAPH                   | C                 |                 | 1A    | 0                | BUSINESS PARK WILL REQUIRE OUTFALL RELOCATION TO R. CLWYD, D/S ALWY/CLWYD CONFLUENCE. |
| CG0107601            | FRIOG                      | U                 |                 | (1A)  | 0                |   |
| CM0095701            | BARTON CODDINGTON LANE     | U                 |                 | (2B)  | 1 STOCK WATERING |   |
| CM0024401            | CILCAIN/PANTYMWYN          | C                 |                 | 1A    | 0                | DISCHARGES TO DRY RIVER BED IN SUMMER. VERY OLD WORKS                                 |

## APPENDIX 5

## Northern Area

## Category B Inland STWs Prioritised

| CONSENT<br>REFERENCE | WORKS NAME            | CLASS/<br>UNCLASS | DIRECTIVE | LTRQO | USES CONSTRAINED | COMMENTS  |
|----------------------|-----------------------|-------------------|-----------|-------|------------------|---|
| CM0009601            | TREMEIRCHION          | U                 |           | 1B    | 1 STOCK WATERING | LOW FLOW IN REC. W/C.   |
| CM0072901            | CLAWDD NEWYDD         | U                 |           | (1A)  | 0                |   |
| CM0105501            | TATTENHALL            | C                 |           | 2     | 0                | LOW DILUTION, WORKS PRONE TO BULKING SLUDGE   |
| CG0171701            | ARTHOG CASTELL        | U                 |           | (1B)  | 0                | SEPTIC TANK TO SMALL DITCH NOT BIOLOGICALLY SAMPLEABLE.                                 |
| CG0155701            | ARTHOG WESLEY TERRACE | U                 |           |       | 0                | SEPTIC TANK TO SMALL DITCH. NOT BIOLOGICALLY SAMPLEABLE                                 |
| CG0078701            | LLANFROTHEN GARREG    | C                 |           | 1B    | 0                |   |
| CM0009001            | CAERWYS               | C                 |           | (1A)  | 1 FISH FARM      | WORKS APPEARS STRUTURALLY UNSOUND. HOLIDAY PARK D/S COMPLAINS OF AESTHETIC IMPACT       |
| CM0101301            | CEFN                  | C                 |           | 1A    | 0                | V.OLD WORKS. PROGRESSIVELY EXPANDED TO HAVE INCREASING LOADS FROM A COMBINED DRAINAGE S |
| CM0009201            | GRAIGFECHAN           | C                 |           | 1A    | 0                |   |
| CG0041301            | PENRHOS CAMP          | U                 |           | (1A)  | 0                | CAN HAVE LOW DILUTION. NO BIOLOGY 1993, UNSUITABLE SITES                                |
| CM0049401            | LLANBEDR D C          | C                 |           | 1A    | 0                | TIME LIMITED CONSENT. DILUTION A BIG PROBLEM  |
| CM0067501            | CEFN MAIRWEN          | C                 |           | 1A    | 0                | V.LOW FLOW IN REC. W.C MOST OF YEAR. NOT BIOLOGICALLY SAMPLEABLE                        |

| CONSENT<br>REFERENCE | WORKS NAME     | ASSOCIATED<br>DIRECTIVE | USES CONSTRAINED               | COMMENTS  |
|----------------------|----------------|-------------------------|--------------------------------|---|
| CM0014201            | HESWALL        | BATHING BEACH           | 2 BATHING, WATER CONTACT, FISH | Downgrades estuary quality. Severe aesthetic impact. PLANNING EMBARGO AREA                      |
| CG0051701            | PORTHMADOG     | Bathing Water           | 2 BATHING, AMENITY             | Overloaded. Discharges outside set tidal state, may influence EC beaches.                       |
| CM0058401            | FLINT          |                         | 0                              | Impounded area - quality and aesthetic impacts.   |
| CG0115101            | MALLTRAETH     |                         | 1 SHELLFISH, BASIC AMENITY     | COPA SACKS COULD PREVENT SEWAGE DEBRIS ON FORESHORE, DOES NOT MEET DILUTION CRITERIA            |
| CM0063501            | BAGILLT (EAST) |                         | 1                              | Gross aesthetic impactNO DILUTION. MANY COMPLAINTS. PLANNING EMBARGO IN AREA                    |
| CM0017801            | CHESTER        |                         | 2 Migratory Fish               | Aesthetic impact. High ammonia load to Dee Estuary.   |
| CG0078501            | CAERNARFON     |                         | 1 AESTHETIC                    | NEEDS EVALUATION OF ESTUARY BY REAU. NEW LONG TERM CONSENT IN FORCE JUNE 1993.                  |
| CM0037001            | CONNAHS QUAY   |                         | 0                              | Aesthetic impact. Possible quality problems in Wepre Brook due to tidelocking.                  |
| CG0093701            | LLANBEDR       |                         | 1 Amenity                      | Causes public nuisance  |
| CG0112001            | CRESCENT       |                         | 1 Amenity                      | AESTHETIC IMPACT  |
| CG0113301            | MAENTWROG      | FISH                    | 0                              | AESTHETIC IMPACT  |
| CG0145101            | LLANDANWG      | EEC BEACH               | 0                              | AESTHETIC IMPACT. RAGS ADJACENT OUTFALL AREA  |
| cm0063601            | BAGILLT (WEST) |                         | 0                              | NO DILUTION. BAD STATE OF REPAIR  |
| CM0029801            | GREENFIELD     |                         | 0                              | Aesthetic impact - discharges above low water.  |
| CG0055301            | LLANDEGFAN     |                         | 0                              | Sludge discharged with effluent   |
| CG0093501            | TREBORTH       |                         | 1                              | MAJOR SCHEME PROGRAMMED.  |
| CG0144901            | HARLECH        | EEC BEACH               | 0                              | AESTHETIC IMPACT. SMALL RISK OF BEACH FAILURE. HYDRAULIC LOADING MAY BE PUMPING STATION PROBLEM |
| CG0084901            | LLANGOED       |                         | 0                              | Sludge discharged with effluent PROBABLY DOES NOT NEED DILUTION CRITERIA                        |
| CG0081101            | LLANFAIRPWLL   |                         | 0                              | Sludge discharged with effluent   |

| Consent<br>Ref. | Works<br>name                  | Works Grid<br>Ref | Class/<br>Unclass | Category |
|-----------------|--------------------------------|-------------------|-------------------|----------|
| CM0110201       | ABENBURY                       | SJ 36600-48420    | C                 | A        |
| CG0073701       | ABERANGELL                     | SH 84600-09800    | U                 | A        |
| CG0158701       | ABERCEGIR                      | SH 80360-60170    | U                 | A        |
| CG0108201       | ABERDARON                      | SH 17600-26400    | U                 | A        |
| CG0111201       | ABERERCH                       | SH 39600-36700    | C                 | A        |
| CG0107701       | ABERLLEFENI                    | SH 77000-09500    | C                 | A        |
| CM0019301       | ABERNWHEELER                   | SJ 09230-69490    | C                 | A        |
| CM0115201       | ALDFORD                        | SJ 42150-59560    | C                 | A        |
| CM0128001       | ALWEN RES. S/T                 | SH 96200-52800    | U                 | A        |
| CM0128002       | ALWEN RES. WORKS               | SH 95800-52900    | U                 | A        |
| CG0109301       | ARTHOG - COUNCIL HOUSES        | SH 62700-13600    | U                 | A        |
| CG0156601       | ARTHOG MORFA MAWDDACH          | SH 63030-13920    | U                 | A        |
| CM0116001       | BACKFORD                       | SJ 39730-71250    | U                 | A        |
| CM0001501       | BALA                           | SH 93770-35560    | C                 | A        |
| CM0060701       | BANGOR (ISYCOED)               | SJ 39540-46030    | C                 | A        |
| CG0024001       | BEDDGELEERT                    | SH 59000-47600    | C                 | A        |
| CG0076201       | BETHANIA                       | SH 62600-50300    | C                 | A        |
| CG0069901       | BETHESDA                       | SH 61200-67500    | C                 | A        |
| CM0026601       | BETTWS GWERPIL GOCH            | SJ 03080-46430    | C                 | A        |
| CG0108501       | BETWS GARMON                   | SH 54300-56700    | C                 | A        |
| CG0099001       | BETWS Y COED                   | SH 79550-57020    | C                 | A        |
| CG0114001       | BODEDERN                       | SH 33300-80800    | U                 | A        |
| CG0062001       | BODFFORDD                      | SH 42900-76800    | U                 | A        |
| CG0127201       | BODFUAN                        | SH 30800-3865     | U                 | A        |
| CM0095601       | BONTUCHEL                      | SJ 08440-57880    | U                 | A        |
| CG0083701       | BORTH (TALIESIN)               | SN 61400-89700    | C                 | A        |
| CM0104201       | BOTEGWEL                       | SH 97190-76820    | U                 | A        |
| CG0078901       | BOTWNNOG                       | SH 26600-30300    | C                 | A        |
| CM0149401       | BOWLING BANK                   | SJ 39900-48200    | C                 | A        |
| CM0189601       | BRO MEUDWY                     | SH 12800-50900    | C                 | A        |
| CG0086701       | BRONABER                       | SH 71100-31400    | U                 | A        |
| CM0072001       | BRONINGTON                     | SJ 48650-40710    | C                 | A        |
| CM0111501       | BROUGHALL                      | SJ 56600-41350    | U                 | A        |
| CG0014601       | BRYNCIR                        | SH 48000-44300    | C                 | A        |
| CG0013001       | BRYNCROES                      | SH 23000-31400    | U                 | A        |
| CG0075901       | BRYNCRUG                       | SH 60600-03300    | C                 | A        |
| CG0109701       | BRYNDU LLANFAELOG              | SH 34180-72290    | U                 | A        |
| CG0076601       | BRYNGWRAN                      | SH 34300-77400    | U                 | A        |
| CM0003701       | BURTON                         | SJ 31220-73880    | U                 | A        |
| CM0155201       | BYLCHAU                        | SH 97480-62980    | U                 | A        |
| CG0023601       | CAEATHRO                       | SH 49800-62000    | C                 | A        |
| CG0314301       | CAPEL GARMON                   | SH 81500-55300    | C                 | A        |
| CG0023101       | CAPEL UCHAF                    | SH 42730-49980    | U                 | A        |
| CM0000501       | CARROG                         | SJ 11740-43710    | C                 | A        |
| CG0059601       | CEMAES ROAD                    | SH 81800-04600    | C                 | A        |
| CG0012201       | CHWILOG                        | SH 43600-38100    | C                 | A        |
| CM0094401       | CLOCAENOG                      | SJ 08400-54130    | U                 | A        |
| CM0021501       | CLUTTON TATTENHALL             | SJ 45780-54370    | C                 | A        |
| CG0109601       | COED Y FRON                    | SH 29600-29900    | U                 | A        |
| CM0154201       | COLD HARBOUR                   | SJ 29200-63800    | U                 | A        |
| CG0061701       | CORRIS ISAF (LOWER CORRIS)     | SH 75500-07400    | C                 | A        |
| CG0156001       | CORRIS UCHAF                   | SH 74800-08500    | U                 | A        |
| CG0109801       | CRAIG DINAS                    | SH 80200-54400    | U                 | A        |
| CG0133001       | CROESOR (3)                    | SH 63100-44600    | U                 | A        |
| CM0014501       | CYFPYLLIOG                     | SJ 06390-57610    | C                 | A        |
| CM0149301       | CYNWYD                         | SJ 05360-40910    | C                 | A        |
| CM0033101       | CYNWYD GWALIA COTTAGES         | SJ 05800-41500    | U                 | A        |
| CG0086501       | DAROWEN                        | SH 83200-01400    | U                 | A        |
| CM0028601       | DENBIGH EGLWYSWEN              | SJ 07630-65820    | C                 | A        |
| CM0095301       | DERWEN                         | SJ 07130-50670    | U                 | A        |
| CG0169701       | DERWENLAS                      | SN 72300-99200    | U                 | A        |
| CM0038801       | DINMAEL                        | SJ 00710-44690    | C                 | A        |
| CG0156401       | DINORWIC (3) MINFFORDD         | SH 58800-61500    | U                 | A        |
| CG0156501       | DINORWIC (4) CHAPEL            | SH 58700-61400    | U                 | A        |
| CM0035901       | DYSERTH                        | SJ 05150-79770    | C                 | A        |
| CM0108901       | EASTWICK                       | SJ 37330-37450    | U                 | A        |
| CM0095201       | EDGE (BRASSEY'S CONTRACT ROAD) | SJ 48440-50290    | U                 | A        |
| CM0112101       | ERBISTOCK                      | SJ 35470-42030    | C                 | A        |
| CM0190301       | ERRIANALLT                     | SJ 19700-43200    | U                 | A        |
| CM0142601       | ERYRYS                         | SJ 20170-58110    | U                 | A        |
| CG0072901       | ESGAIREILIOG (CEINWS)          | SH 75900-06000    | U                 | A        |
| CM0021401       | FARNDON                        | SJ 41330-53870    | C                 | A        |
| CM0095101       | FENNS BANK                     | SJ 51230-38960    | U                 | A        |
| CM0102701       | FFRITH                         | SJ 28740-55150    | U                 | A        |
| CM0077801       | FIVE FORDS (WREXHAM)           | SJ 36230-48370    | C                 | A        |
| CM0010901       | FLINT MOUNTAIN                 | SJ 23750-70200    | U                 | A        |
| CM0189801       | FLINT THE MEADOWS              | SJ 24000-72800    | U                 | A        |

| Consent<br>Ref. | Works<br>name             | Works Grid<br>Ref | Class/<br>Unclass | Category |
|-----------------|---------------------------|-------------------|-------------------|----------|
| CM0190001       | FOUR CROSSES              | SJ 03400-42900    | U                 | A        |
| CG0012401       | FOURCROSSES               | SH 40200-39100    | C                 | A        |
| CM0077301       | FRON GOCH                 | SH 90560-39120    | C                 | A        |
| CM0101501       | FRONCYSYLLTE              | SJ 27110-41960    | C                 | A        |
| CG0029001       | GANLLWYD                  | SH 72700-24100    | C                 | A        |
| CG0080001       | GARNDDOLBENMAEN           | SH 49600-42900    | C                 | A        |
| CG0080501       | GARNDDWEN                 | SH 76400-08700    | C                 | A        |
| CG0060501       | GELLILYDAN                | SH 68600-40000    | U                 | A        |
| CM0045101       | GLANYRAPON                | SJ 02460-42640    | U                 | A        |
| CG0064201       | GLASFRYN                  | SH 91800-50100    | U                 | A        |
| CG0171501       | GLYN MALDEN               | SH 70730-18200    | U                 | A        |
| CM0026801       | GLYNDYFRDWY               | SJ 15270-42950    | C                 | A        |
| CG0108901       | GRAIG                     | SH 80240-74220    | U                 | A        |
| CM0018801       | GROES BRONALLT            | SJ 00660-65090    | U                 | A        |
| CG0108801       | GROESFFORDD               | SH 76900-75700    | U                 | A        |
| CM0022601       | GWYTHIERIN                | SH 87880-61570    | U                 | A        |
| CM0022001       | HALTON                    | SJ 30420-40550    | C                 | A        |
| CG0081001       | HENRYD                    | SH 76800-74700    | U                 | A        |
| CM0149701       | HIGHER LANES              | SJ 47950-42970    | U                 | A        |
| CM0102001       | HOLT                      | SJ 40190-54520    | C                 | A        |
| CM0094801       | HORSEMANS GREEN           | SJ 45130-40850    | U                 | A        |
| CM0044801       | ISYCOED MARSHLEA          | SJ 39820-50820    | U                 | A        |
| CM0115601       | KINNERTON LOWER           | SJ 34490-62100    | U                 | A        |
| CM0077501       | LAVISTER                  | SJ 37730-58510    | C                 | A        |
| CM0057101       | LIXWM (WHEELER HILL)      | SJ 16600-70100    | U                 | A        |
| CG0033501       | LLAN-LLANBRYNMAIR         | SH 88600-00400    | C                 | A        |
| CG0012601       | LLANAELHAEARN             | SH 38400-45400    | U                 | A        |
| CM0022101       | LLANARMON DYFFRYN CEIRIOG | SJ 15970-32870    | C                 | A        |
| CM0094601       | LLANARMON MAES Y LLAN     | SJ 18570-56090    | C                 | A        |
| CG0114201       | LLANBRYNMAIR              | SH 89300-02600    | C                 | A        |
| CM0045201       | LLANDDERFEL               | SH 98310-37010    | U                 | A        |
| CG0085601       | LLANDECWYN (CILFOR)       | SH 62050-37820    | U                 | A        |
| CG0107201       | LLANDEGAI IND EST.2       | SH 58900-71100    | U                 | A        |
| CG0065701       | LLANDYFRYDOG              | SH 44800-87200    | U                 | A        |
| CM0079601       | LLANDYRNOG                | SJ 09830-64380    | C                 | A        |
| CG0114301       | LLANEGRYN                 | SH 61600-05700    | C                 | A        |
| CG0035301       | LLANEILIAN YN RHOS        | SH 86500-76400    | U                 | A        |
| CM0074401       | LLANELIDAN                | SJ 10800-50380    | U                 | A        |
| CG0114504       | LLANERCHYMEDD             | SH 45140 86260    | C                 | A        |
| CG0110901       | LLANFACHRETH              | SH 75300-22300    | U                 | A        |
| CG0089901       | LLANFAES (B)              | SH 60900-77800    | U                 | A        |
| CG0110201       | LLANFAETHLU               | SH 31700-87000    | U                 | A        |
| CM0062801       | LLANFAIR DYFFRYN CLWYD    | SJ 13640-56040    | U                 | A        |
| CM0079101       | LLANFAIR TALHAIRN         | SH 93070-70500    | C                 | A        |
| CM0151001       | LLANFIHANGEL GLYN MYFYR   | SH 99140-49180    | C                 | A        |
| CM0160701       | LLANFOR                   | SH 93950-36450    | C                 | A        |
| CG0019201       | LLANGAFFO                 | SH 44600-67700    | C                 | A        |
| CM0005401       | LLANGOLLEN                | SJ 23450-42360    | C                 | A        |
| CM0066201       | LLANGOWER                 | SH 90440-32340    | C                 | A        |
| CG0064301       | LLANLLECHID               | SH 62100-68600    | U                 | A        |
| CG0087501       | LLANLLYFNI                | SH 46000-51900    | C                 | A        |
| CG0040501       | LLANNOR                   | SH 35000-37000    | U                 | A        |
| CG0019101       | LLANRWST                  | SH 79400-61900    | C                 | A        |
| CM0000801       | LLANUWCHILLYN             | SH 88100-30300    | C                 | A        |
| CG0155601       | LLANYMAWDDWY              | SH 90300-18700    | U                 | A        |
| CM0111801       | LLANYNYS                  | SJ 10190-62920    | U                 | A        |
| CG0014201       | LLANYSTUMDWY (A)          | SH 47300-38300    | C                 | A        |
| CG0015101       | LLANYSTUMDWY (B)          | SH 47200-38400    | C                 | A        |
| CM0013201       | LLIDIART ANNIE            | SJ 18820-44450    | C                 | A        |
| CG0013501       | LLITHFAEN                 | SH 36000-42400    | U                 | A        |
| CG0077201       | LLYNFAES                  | SH 41100-78100    | U                 | A        |
| CM0189501       | LYNTON & CAEFNOR          | SH 10700-61300    | U                 | A        |
| CG0083001       | MACHYNLLETH               | SH 74200-00800    | C                 | A        |
| CG0126301       | MACHYNLLETH DYFI BRIDGE   | SH 74350-01940    | C                 | A        |
| CM0071201       | MAES-Y-GROES              | SJ 19190-63490    | U                 | A        |
| CM0189701       | MAESHWYLFA LLANRHAEDR     | SH 08700-62400    | U                 | A        |
| CG0312701       | MALLWYD                   | SH 86200-12300    | U                 | A        |
| CM0045601       | MARLI GLASCOED            | SH 99970-73700    | U                 | A        |
| CG0030601       | MELIN Y COED              | SH 81200-60600    | U                 | A        |
| CM0027201       | MIN-Y-RHOS                | SJ 14690-47440    | C                 | A        |
| CM0031001       | MOLD                      | SJ 24730-63160    | U                 | A        |
| CG0314302       | MOUNTAIN VIEW             | SH 80700-55600    | U                 | A        |
| CG0030801       | MYNYTHO                   | SH 30500-30100    | U                 | A        |
| CM0012701       | NANNERCH                  | SJ 16860-69250    | U                 | A        |
| CG0027601       | NANT PERIS                | SH 60500-58200    | C                 | A        |
| CG0071301       | NANTGWYNANT               | SH 63200-51100    | C                 | A        |
| CG0023901       | NANTMOR                   | SH 59800-46000    | C                 | A        |
| CG0077501       | NEBO (CONWY)              | SH 83520-56010    | U                 | A        |



| Consent<br>Ref. | Works<br>name                  | Works Grid<br>Ref | Class/<br>Unclass | Category |
|-----------------|--------------------------------|-------------------|-------------------|----------|
| CG0094101       | NEWBOROUGH                     | SH 42800-65300    | C                 | A        |
| CM0066501       | NOMANSHEATH                    | SJ 50910-47780    | U                 | A        |
| CM0045001       | OLD CRYMBAL EYTON              | SJ 32900-43700    | U                 | A        |
| CM0188601       | OVERTON                        | SJ 36620-41640    | C                 | A        |
| CM0190101       | PANDY'R CAPEL                  | SJ 08700-50400    | U                 | A        |
| CG0022801       | PANTGLAS                       | SH 47000-47200    | U                 | A        |
| CG0155401       | PANTPERTHOG                    | SH 74800-04200    | U                 | A        |
| CM0055301       | PARC                           | SH 87740-33880    | C                 | A        |
| CG0012301       | PENCAENEWYDD                   | SH 40900-40800    | U                 | A        |
| CG0109001       | PENCAERNEISIOG                 | SH 35400-73500    | U                 | A        |
| CM0155401       | PENIEL                         | SJ 03280-63000    | U                 | A        |
| CG0134101       | PENISARWAEN                    | SH 55000-63600    | C                 | A        |
| CM0118501       | PENLEY                         | SJ 41480-40460    | U                 | A        |
| CG0014901       | PENMORFA                       | SH 55100-40300    | U                 | A        |
| CG0075401       | PENNAL                         | SH 70200-00100    | U                 | A        |
| CG0013601       | PENPRYS                        | SH 34800-39700    | U                 | A        |
| CM0190201       | PENRHALLT                      | SJ 14500-42700    | C                 | A        |
| CG0013901       | PENRHOS                        | SH 34800-34200    | U                 | A        |
| CM0109001       | PENTRE COED                    | SJ 35670-37600    | U                 | A        |
| CM0095501       | PENTRE LLYN CYMMER             | SH 97380-52850    | U                 | A        |
| CG0073301       | PENTREFELIN                    | SH 52940-39540    | U                 | A        |
| CG0078201       | PENTREUCHAF (1)                | SH 35700-38800    | U                 | A        |
| CM0029601       | PENYFFORDD                     | SJ 31120-60880    | U                 | A        |
| CG0110501       | PISTYLL                        | SH 32400-42000    | U                 | A        |
| CM0028701       | PONTFAEN                       | SJ 27970-37030    | C                 | A        |
| CG0074601       | PONTLLYFNI                     | SH 43300-52700    | U                 | A        |
| CG0015001       | PRENTEG                        | SH 59000-41300    | U                 | A        |
| CM0155301       | PRION                          | SJ 04780-62070    | U                 | A        |
| CM0044201       | RHOESMOR                       | SJ 21000-68150    | U                 | A        |
| CG0081501       | RHOSFAWR                       | SH 38900-39000    | U                 | A        |
| CG0014401       | RHOSLAN                        | SH 48200-40700    | U                 | A        |
| CG0110601       | RHYD                           | SH 63700-41700    | U                 | A        |
| CG0024101       | RHYD DDU                       | SH 57000-52900    | C                 | A        |
| CG0056901       | RHYDWYN                        | SH 31200-88800    | U                 | A        |
| CG0155901       | RHYDYMMAIN                     | SH 80280-21790    | U                 | A        |
| CM0004201       | RHYDYMWYN                      | SJ 20900-66500    | U                 | A        |
| CG0073501       | RIVERSIDE                      | SH 36100-34400    | U                 | A        |
| CM0183401       | SAIGHTON                       | SJ 44530-61700    | U                 | A        |
| CG0012901       | SARN (COUNCIL HOUSES)          | SH 24500-31700    | C                 | A        |
| CG0110801       | SARN MEILLTEYRN                | SH 23900-32200    | C                 | A        |
| CM0094501       | SARNAU                         | SH 97100-39330    | U                 | A        |
| CM0094301       | SARON                          | SJ 02750-60880    | U                 | A        |
| CG0109501       | SEA VIEW COTTAGES              | SH 38600-46900    | U                 | A        |
| CG0082201       | SEION (1)                      | SH 54700-67200    | U                 | A        |
| CG0155201       | SEION (2)                      | SH 54600-66800    | U                 | A        |
| CM0036801       | SELATTYN                       | SJ 26670-34060    | U                 | A        |
| CM0110101       | SESSWICK WERN                  | SJ 37480-47280    | U                 | A        |
| CG0109101       | TAI CYNHAEAF (1)               | SH 68800-19400    | U                 | A        |
| CG0155801       | TAI CYNHAEAF (2)               | SH 68900-19300    | U                 | A        |
| CG0171901       | TALERDDIG                      | SH 92960-00210    | C                 | A        |
| CG0071401       | TALSARNAU                      | SH 61000-35900    | U                 | A        |
| CG0155301       | TALWAENYDD SEPTIC TANK         | SH 69500-47400    | U                 | A        |
| CG0082101       | TALYBONT (BANGOR) (PRICE BROS) | SH 60250-70650    | C                 | A        |
| CG0155101       | TAN LAN (NEW)                  | SH 79080-63490    | U                 | A        |
| CM0021601       | TILSTON                        | SJ 45520-51590    | U                 | A        |
| CM0021901       | TREGEIRIOG                     | SJ 17930-33630    | C                 | A        |
| CM0028801       | TRELAWNYD                      | SJ 08720-79300    | U                 | A        |
| CM0116701       | TREUDDYN BRIDGE TERRACE        | SJ 25580-57920    | U                 | A        |
| CM0027701       | TREUDYN LODGE VILLAS           | SJ 26330-58220    | U                 | A        |
| CM0010801       | TRYWERYN DAM                   | SH 88330-39860    | C                 | A        |
| CG0074501       | TYDDYN HYWEL                   | SH 39100-47800    | U                 | A        |
| CM0073101       | WHITCHURCH                     | SJ 51650-41620    | U                 | A        |
| CM0094201       | WHITEHURST                     | SJ 29050-40030    | U                 | A        |
| CM0189901       | WHITEHURST HALT                | SJ 28600-40200    | U                 | A        |
| CM0154101       | WILLOW BUCKLEY (PENTRE)        | SJ 27500-65000    | U                 | A        |
| CG0089301       | YSBYTY IFAN                    | SH 84400-49000    | C                 | A        |

APPENDIX 5      Northern Area      Category A Tidal STWs

| Consent<br>Ref. | Works<br>name                | Works Grid<br>Ref | Category |
|-----------------|------------------------------|-------------------|----------|
| CG0113901       | ABER                         | SH 65000-73200    | A        |
| CG0144801       | ABERSOCH                     | SH 31300-26800    | A        |
| CG0082501       | DOLGELLAU                    | SH 71200-18300    | A        |
| CG0111901       | LLANFACHRAETH                | SH 31400-82100    | A        |
| CG0077001       | LLANFAIRFECHAN               | SH 66900-74100    | A        |
| CM0026301       | MOSTYN                       | SJ 17050-80120    | A        |
| CM0069001       | NESTON                       | SJ 28690-76770    | A        |
| CG0084501       | PENRHYNDEUDRAETH             | SH 61800-38500    | A        |
| CG0145001       | RHIW                         | SH 22440-26150    | A        |
| CM0082501       | RHUDDLAN                     | SJ 01600-78550    | A        |
| CG0075501       | TALYBONT-DOLGARROG           | SH 77200-68700    | A        |
| CG0084201       | TREFRIW                      | SH 78400-62900    | A        |
| CG0139201       | TREVOR - GWYDIR MAWR TERRACE | SH 37680-47270    | A        |
| CG0145201       | TUDWEILILOG                  | SH 23440-38080    | A        |
| CG0015401       | TYNYGROES                    | SH 78520-71210    | A        |
| CG0111801       | YNYS                         | SH 59800-35500    | A        |

APPENDIX 5      Northern Area      Category D Inland STWs

| Consent<br>Ref. | Works<br>name   | Works Grid<br>Ref | Class/<br>Unclass | Category |
|-----------------|-----------------|-------------------|-------------------|----------|
| CM0050401       | CHIRK RHOSYWAUN | SJ 29580-40820    | C                 | D        |
| CM0044601       | DOBSHILL        | SJ 30600-64250    | U                 | D        |
| CG0107801       | RHOSLEFAIN      | SH 57400-05600    | U                 | D        |
| CG0170901       | YNYSLAS CORNER  | SH 61100-92600    | U                 | D        |

APPENDIX 5      Northern Area      Category D Tidal STWs

| Consent<br>Ref. | Works<br>name | Works Grid<br>Ref | Category |
|-----------------|---------------|-------------------|----------|
| CG0023301       | CLYNNOG FAWR  | SH 41200-50000    | D        |

## APPENDIX 6

South Eastern Area

Category B Inland STWs Prioritised

| CONSENT<br>REFERENCE | WORKS NAME                | CLASS/<br>UNCLASS | DIRECTIVE | LTRQO | USES CONSTRAINED | COMMENTS  |
|----------------------|---------------------------|-------------------|-----------|-------|------------------|---|
| AL1003501            | WEOBLEY                   | C                 |           | 2     | 0                | CONSENT REVIEW 1/4/94   |
| AG0004501            | CILFYNYDD                 | C                 |           | 2     | 0                | OUTFALL NEEDS DIFFUSER TO ELIMINATE SEWAGE FUNGUS                                     |
| AS1004101            | RUARDEAN (WOODSIDE)       | U                 |           | (1B)  | 0                |   |
| AW1002401            | HOWEY                     | C                 |           | 1B    | 0                | WELSH WATER CONSIDERING IMPROVEMENT OPTIONS. RELOCATION OF OUTFALL EXPECTED.          |
| AW1004701            | NORTON (OLD)              | C                 |           | 1B    | 0                | DILUTION MAY BE LOWER THAN CLAIMED. COMPLAINTS AND PERCEIVED SSO DIFFICULTIES.        |
| AD0000701            | CRAY                      | U                 |           | 1A    | 0                | EFFLUENT COMPLYING AT PRESENT.  |
| AN0033701            | CYNON                     | C                 |           | 2     | 1 Migratory Fish | NH4 CONSENT RELAXED SINCE ENVIRONMENTALLY PROTECTIVE CONSENT ISSUED                   |
| AH1002801            | ORCOP (COPWELL ESTATE)    | U                 |           | (1B)  | 0                |   |
| AH1000301            | BURGHILL                  | C                 |           | 1B    | 0                | WW INTENDING TO MODIFY  |
| AC0091901            | LLANARTH                  | C                 |           | (1B)  | 0                |   |
| AW1000701            | BUILTH WELLS              | C                 |           | 1A    | 0                | BMWP Increase   |
| AL1000602            | BROMYARD (NEW)            | C                 |           | 1B    | 0                |   |
| AH1001201            | HEREFORD (ROTHERWAS)      | C                 |           | 1B    | 0                | UNDER INVESTIGATION. REAU   |
| AN0179401            | LLWYNON (OLD WTW AND LLWY | C                 |           | 1A    | 0                |   |
| AB0044801            | USK                       | C                 |           | 1A    | 0                |   |
| AD0002501            | LITTLE MILL               | C                 |           | 1B    | 0                | MZ PROBLEM ONLY. NOT REQUIRE CAPITAL WORKS  |
| AW1004401            | NEWBRIDGE-ON-WYE          | C                 |           | 1A    | 0                |   |
| AC0140701            | LLANDDEW                  | U                 |           | (1B)  | 0                |   |
| AW1002301            | HAY-ON-WYE                | C                 |           | 1A    | 0                | BMWP INCREASE   |
| AW1002701            | LLANDEGLEY                | C                 |           | 1B    | 0                | REVIEW OF CONSENT REQ.  |
| AB0046101            | LLANELLEN                 | C                 |           | 1A    | 0                | NOT REQUIRE CAPITAL WORKS   |
| AL1001501            | KINGTON                   | C                 |           | 1A    | 0                | REVIEW CONSENT REQUIRED. SSO ENTERS SAME POINT  |
| AC0085601            | BRYNMAWR (BLACKROCK)      | C                 |           | 2     | 0                | SEWAGE STREAMING PROBABLY CAUSE OF SF. MICROSTRAINER COULD BE REINSTATED IF REQUIRED. |
| AW1003801            | LLANWRTHWL                | C                 |           | 1B    | 0                | NO CAPITAL WORKS REQ.   |
| AW1001101            | CROSS GATES               | C                 |           | 1A    | 0                | WORKS IMPROVED. NO CAPITAL WORKS REQ. REASSESS  |
| AG0017801            | DROPE (WESTBURY HOMES)    | C                 |           | 2     | 0                |   |
| AH1002401            | MORDIFORD (PENTALOE CLOSE | C                 |           | 1B    | 0                | NO CAPITAL WORKS REQ.   |
| AG0010801            | DROPE                     | U                 |           | (2)   | 0                |   |
| AB0046601            | LLANGYBI                  | C                 |           | 1A    | 0                |   |
| AH1002901            | PANDY                     | C                 |           | 1A    | 0                | NO CAPITAL WORKS REQ.   |
| AC0140201            | RAGLAN                    | U                 |           | (1B)  | 0                | EP CONSENT 31/12/92. OPERATING TO IT SINCE JAN/FEB 1993. REASSESS                     |
| AW1005201            | RHAYADER                  | C                 |           | 1A    | 0                | NO CAPITAL WORKS REQ.   |
| AW1000901            | CLYRO                     | C                 |           | 1B    | 0                | BMWP INCREASE   |
| AN0214601            | TRELLECH                  | U                 |           | (2A)  | 0                |   |
| AW1005101            | PRESTEIGNE                | C                 |           | 1A    | 0                |   |
| AW1005301            | TALGARTH                  | C                 |           | 1B    | 0                |   |
| AD0001701            | TALYBONT                  | C                 |           | 1A    | 0                |   |
| AH1003701            | TARRINGTON                | C                 |           | 1B    | 0                |   |
| AD0000901            | TRECASTLE                 | U                 |           | (1B)  | 0                | NOT REQUIRE CAPITAL WORKS   |
| AL1003401            | ULLINGSWICK (DINMARSH)    | U                 |           | 2     | 0                |   |
| AG0007801            | PONTSTICILL               | C                 |           | 1A    | 0                |   |
| AW1000601            | BUILTH ROAD               | U                 |           | 1A    | 0                |   |

| CONSENT<br>REFERENCE | WORKS NAME                | CLASS/<br>UNCLASS | DIRECTIVE | LTRQO | USES CONSTRAINED | COMMENTS   |
|----------------------|---------------------------|-------------------|-----------|-------|------------------|--|
| AB0034101            | ABERBAIDEN                | C                 |           | 1A    | 0                |  |
| AN0035901            | CRADOC                    | C                 |           | 1A    | 0                |  |
| AN0115601            | PENYBONT                  | C                 |           | 1A    | 0                |  |
| AL1003101            | STOKE LACY (WESTBURY)     | U                 |           | (1B)  | 0                | TO R. LODON. REASSESS  |
| AL1001701            | LUSTON & YARPOLE          | U                 |           | (1B)  | 0                | BED SILTY?   |
| AN0106401            | LLANSOY                   | C                 |           | 1A    | 0                |  |
| AW1003501            | LLANGUNLLO                | C                 |           | 1A    | 0                | REVIEW CONSENT REQUIRED. NO CAPITAL WORKS REQ.   |
| AW1001701            | VELINDRE                  | U                 |           | (1B)  | 0                | MIXING ZONE PROBLEM ONLY. NOT REQUIRE CAPITAL WORKS                                      |
| AG0009201            | LLANCARFAN                | C                 |           | 2     | 0                | Problem with sewerage system. Flooding of land with storm sewage.                        |
| AH1002201            | MORETON-ON-LUGG           | C                 |           | 1B    | 0                |  |
| AS1003701            | ROSS (NEW) LOWER CLEEVE   | C                 |           | 1B    | 0                |  |
| AL1001401            | KINGSLAND                 | C                 |           | 1B    | 0                | NO CAPITAL WORKS REQ.  |
| AH1001101            | HEREFORD (EIGN)           | C                 |           | 1B    | 0                | UNDER INVESTIGATION. REAU  |
| AS1001001            | GLEWSTON (WILSON)         | U                 |           | (1B)  | 0                |  |
| AH1001901            | KINGSTONE & MADLEY        | C                 |           | 2     | 2 Fisheries      | DILUTION 1:1. REAU ASSESSING IMPACT. WILL PROVIDE LT CONSENT FIGURES. WILL REVIEW        |
| AH1002001            | LITTLE DEWCHURCH          | C                 |           | (1B)  | 1 FISHERIES      | Recent Plant upgrade. Chemical and visual impact on receiving stream. DRY, NO BIOLOGY    |
| AL1001901            | MOCCAS                    | U                 |           | (1B)  | 0                | WW TO IMPROVE TREATMENT. TRIB. REQUIRES PROTECTION. PROB. OPERATIONAL IMPROVEMENTS WOULD |
| AL1001201            | EDWYN RALPH               | U                 |           | (1B)  | 0                | NO BIOLOGY, RIVER DRY  |
| AL1000501            | BREDENBURY (GRENDON FIRS) | U                 |           | (1B)  | 0                |  |
| AH1000401            | CLEHONGER                 | C                 |           | 1B    | 0                |  |
| AS1001201            | GREAT GRAIG - CROSS ASH   | U                 |           | (1A)  | 0                | SHOULD BE LOOKED AT WITH KINGSTONE & MADLEY STW. CONSENT TO BE REVIEWED. PC/             |
| AL1000201            | LEOMINSTER (BARONS CROSS) | C                 |           | 1B    | 0                | DRIES UP IN SUMMER. LOW FLOW   |
| AL1002701            | SHOBDON                   | C                 |           | 1B    | 0                | Should be connected to Leominster (Worcester Road)                                       |
| AL1001601            | LEOMINSTER (WORCESTER RD) | C                 |           | 1B    | 0                | Can't BIOL. survey - no upstream sample point as culvert receives other discharges.      |
| AS1002101            | LLANDDEWI RHYDDERCH       | U                 |           | (1B)  | 0                | Bad works- high impact. Probs. with Biol sampling - discharges to Town Ditch. Reassess?  |
| AH1002301            | MORDIFORD                 | U                 |           | (1B)  | 0                | Reassess   |
| AN0180901            | CAERWENT                  | U                 |           | N/A   | 0                | TO R. LUGG DISCHARGE LOCATION NOT KNOWN BY PC. NO BIOLOGY - SITES DRY                    |

| Consent<br>Ref. | Works<br>name                  | Works Grid<br>Ref | Class/<br>Unclass | Category |
|-----------------|--------------------------------|-------------------|-------------------|----------|
| AN0178601       | ABBEYCWMHIR                    | SO 05500-71100    | U                 | A        |
| AH1000101       | ABBEYDORE                      | SO 38300-30600    | U                 | A        |
| AA0026701       | ABER                           | SO 10600-21400    | U                 | A        |
| BG0034501       | ABERCYCH                       | SN 24300-41200    | U                 | A        |
| AW1000101       | ABEREDW                        | SO 07600-47400    | C                 | A        |
| AW1000301       | ABERLLYNFI (THREE COCKS)       | SO 17400-37800    | U                 | A        |
| AL1000101       | ACTON GREEN                    | SO 69650-50550    | U                 | A        |
| AL2002301       | ALMELEY (BELLS ORCHARD)        | SO 33340-51610    | U                 | A        |
| AN0121301       | ASTON INGHAM (NESTORIL)        | SO 67300-22400    | U                 | A        |
| AW1000501       | BEULAH                         | SN 92300-51100    | C                 | A        |
| AL1000301       | BISHOPS FROME                  | SO 66530-48500    | C                 | A        |
| AL1000401       | BODENHAM                       | SO 53900-51520    | U                 | A        |
| AG0011901       | BONVILSTON (EAST)              | ST 07070-73850    | U                 | A        |
| AG0011801       | BONVILSTON (WEST)              | ST 06200-73400    | U                 | A        |
| AB0041501       | BRECON                         | SO 05700-27600    | C                 | A        |
| AN0023401       | BREDWARDINE                    | SO 33150-44600    | U                 | A        |
| AS1000401       | BROADSTONE (CATBROOK)          | SO 50300-02800    | U                 | A        |
| AN0120801       | BROCKHAMPTON (CAPLAR)          | SO 58880-31590    | U                 | A        |
| AN0120901       | BROCKHAMPTON (LADYRIDGE)       | SO 59060-31760    | U                 | A        |
| AN0150501       | BROCKWEIR                      | SO 54200-01200    | U                 | A        |
| AA0017501       | BRYN                           | SO 33100-10000    | C                 | A        |
| AB0049501       | BWLCH (SOUTH)                  | SO 15400-20800    | C                 | A        |
| AL1000901       | CANON PYON                     | SO 46330-49180    | C                 | A        |
| AN0180001       | CEFNGORWYDD                    | SN 90400-45700    | U                 | A        |
| AW1001001       | CILMERY                        | SO 00940-51820    | C                 | A        |
| AN0179801       | CLIFFORD                       | SO 28700-44600    | U                 | A        |
| AN0010101       | COSLECH                        | ST 04400-81100    | C                 | A        |
| AG0009101       | COWBRIDGE                      | SS 99700-73600    | C                 | A        |
| AN0032201       | CREIGIAU                       | ST 09100-80700    | U                 | A        |
| AC0094701       | CRICKHOWELL                    | SO 22500-17500    | C                 | A        |
| AN0178801       | CROSS OAK                      | SO 10700-23800    | U                 | A        |
| AF3015702       | CWMTAFF HOUSES                 | SO 00300-15000    | C                 | A        |
| AH1000501       | CWMYOY                         | SO 31190-21670    | C                 | A        |
| AA0001901       | DEVAUDEN                       | ST 47950-98960    | U                 | A        |
| AL1001001       | DILWYN                         | SO 42350-54870    | U                 | A        |
| AS1000701       | DINGESTON                      | SO 45910-10090    | C                 | A        |
| AH1000601       | DORMINGTON                     | SO 57910-40090    | U                 | A        |
| AH1000701       | DORSTONE (OAKLAND PLACE)       | SO 31700-41700    | C                 | A        |
| AG0008301       | DUFFRYN ISAP                   | ST 02850-84950    | C                 | A        |
| AN0218201       | EARDISLEY                      | SO 31090-48640    | C                 | A        |
| AH1000801       | EATON BISHOP                   | SO 44510-38920    | C                 | A        |
| AN0179501       | ELAN (GLAN-YR-AFON)            | SN 93500-65300    | C                 | A        |
| AN0024401       | ELAN VALLEY (HOTEL)            | SN 93600-65700    | C                 | A        |
| AW1001401       | ELAN VILLAGE                   | SN 93500-65400    | C                 | A        |
| AW1001501       | ERWOOD                         | SO 09900-43300    | C                 | A        |
| AN0179601       | EVENJOBB                       | SO 26300-62200    | U                 | A        |
| AN0179701       | FFORDLAS                       | SO 20300-38900    | U                 | A        |
| AH1000901       | FOWNHOPE                       | SO 57770-34050    | C                 | A        |
| AW1002001       | GARTH                          | SN 95130-49230    | C                 | A        |
| AS1001301       | GARWAY (FAIRVIEW)              | SO 45500-22600    | U                 | A        |
| AN0179201       | GARWAY (NO.3 FAIRVIEW)         | SO 45000-22000    | U                 | A        |
| AW1002101       | GLASBURY                       | SO 17900-39500    | C                 | A        |
| AN0149901       | GLEWSTONE (MALMO PLACE)        | SO 56000-22100    | U                 | A        |
| AN0149801       | GLEWSTONE VILLAS               | SO 56100-22000    | U                 | A        |
| AS1001101       | GOODRICH                       | SO 56800-18580    | C                 | A        |
| AC0116401       | GOYTRE (PENPERLLEN)            | SO 33000-05800    | C                 | A        |
| AA0027601       | GREAT OAK                      | SO 38700-09900    | U                 | A        |
| AD0018101       | GROESFFORDD                    | SO 07500-27900    | U                 | A        |
| AH1001001       | GROSMONT                       | SO 40890-24270    | C                 | A        |
| AW1002201       | GWENDDWR                       | SO 06700-43330    | U                 | A        |
| AN0146001       | HAREWOOD END (NO.6)            | SO 52000-26000    | U                 | A        |
| AN0146101       | HAREWOOD END (WOODFIELDS)      | SO 52800-26900    | U                 | A        |
| AN0146201       | HENTLAND (PENCOED RISE)        | SO 52100-26100    | U                 | A        |
| AF4021601       | HIGHLIGHT PARK (WEYCOCK CROSS) | ST 10450-76450    | C                 | A        |
| AH1001402       | HOLME LACY                     | SO 55750-36600    | C                 | A        |
| AN0178701       | HOW CAPLE (CROSSWAYS)          | SO 61850-31140    | U                 | A        |
| AN0146501       | HOWLE HILL                     | SO 60500-20200    | U                 | A        |
| AW1002501       | HUNDRED HOUSE                  | SO 11420-54490    | U                 | A        |
| AL1001301       | IVINGTON                       | SO 47370-56730    | U                 | A        |
| AH1001701       | KENDERCHURCH (WORMBRIDGE)      | SO 42600-30300    | C                 | A        |
| AN0146301       | KENTCHURCH (CRABS CASTLE)      | SO 43700-27300    | U                 | A        |
| AH1001501       | KENTCHURCH (PARKSIDE)          | SO 41900-25500    | C                 | A        |
| AH1001801       | KILPECK                        | SO 44200-30760    | C                 | A        |
| AN0038101       | KINGS CAPLE                    | SO 56300-28600    | C                 | A        |
| AS1001901       | LEA (KNIGHTSHILL)              | SO 66490-21950    | C                 | A        |
| AG0014601       | LECKWITH                       | ST 15800-74300    | U                 | A        |
| AB0076001       | LIBANUS                        | SN 99700-26000    | C                 | A        |

| Consent<br>Ref. | Works<br>name                  | Works Grid<br>Ref | Class/<br>Unclass | Category |
|-----------------|--------------------------------|-------------------|-------------------|----------|
| AA0003101       | LLANBEDR                       | SO 23800-20300    | U                 | A        |
| AW1002601       | LLANBISTER (NEW)               | SO 10800-73550    | U                 | A        |
| AN0146401       | LLANCLOUDY (HILL VIEW)         | SO 49740-21120    | U                 | A        |
| AW1002801       | LLANDEDEWI YSTRADENNI          | SO 10700-58300    | C                 | A        |
| AB0072701       | LLANDEGFEDD (PICNIC SITE)      | ST 32870-98400    | U                 | A        |
| AW1002901       | LLANDRINDOD WELLS              | SO 05000-60500    | C                 | A        |
| AD0001501       | LLANFAIR                       | SO 34900-06800    | C                 | A        |
| AW1003001       | LLANFAREDD                     | SO 06800-50800    | C                 | A        |
| AA0015101       | LLANFIHANGEL-NANT-BRAN         | SN 94300-34300    | U                 | A        |
| AW1003201       | LLANFILO                       | SO 11740-33880    | C                 | A        |
| AB0038201       | LLANFOIST (ABERGAVENNY)        | SO 29900-13300    | C                 | A        |
| AD0002101       | LLANFRYNACH                    | SO 07800-25800    | C                 | A        |
| AW1003301       | LLANGAMMARCH WELLS             | SN 93620-47290    | C                 | A        |
| AN0145801       | LLANGARRON (GARREN VIEW)       | SO 53600-21000    | U                 | A        |
| AS1002501       | LLANGARRON (HERBERTS HILL)     | SO 52780-21530    | U                 | A        |
| AN0145901       | LLANGARRON (NO.3 GARRON VIEW)  | SO 53000-21000    | U                 | A        |
| AW1003601       | LLANGURIG                      | SN 90900-79600    | C                 | A        |
| AW1003701       | LLANIGON                       | SO 20420-40500    | C                 | A        |
| AD0004201       | LLANISHEN                      | SO 47500-03200    | U                 | A        |
| AB0043401       | LLANOVER                       | SO 31400-08700    | C                 | A        |
| AB0056601       | LLANSPYDDID                    | SO 01100-28300    | C                 | A        |
| AS1002301       | LLANTILIO CROSSENNY            | SO 39780-14570    | U                 | A        |
| AS1002601       | LLANVAPLEY                     | SO 36500-13900    | U                 | A        |
| AS1002701       | LLANVETHERINE                  | SO 36900-17600    | C                 | A        |
| AS1002801       | LLANWARNE (MONKTON PLACE)      | SO 49770-26880    | U                 | A        |
| AD0010501       | LLANWENARTH                    | SO 26900-15700    | U                 | A        |
| AW1003901       | LLANWRTYD WELLS                | SN 90000-46200    | C                 | A        |
| AW1004001       | LLANYRE                        | SO 05250-62340    | C                 | A        |
| AW1004101       | LLOWES                         | SO 19400-41600    | C                 | A        |
| AW1004201       | LLYSWEN (VILLAGE)              | SO 13530-38120    | C                 | A        |
| AW1004301       | LLYSWEN (WYELANDS)             | SO 12900-38400    | C                 | A        |
| AH1002101       | LONGTOWN                       | SO 32370-28470    | C                 | A        |
| AS1002901       | LYDBROOK                       | SO 58470-16960    | C                 | A        |
| AL1001801       | LYONSHALL                      | SO 34170-55730    | C                 | A        |
| AA0012101       | MANMOEL                        | SO 18000-03100    | U                 | A        |
| AS1003201       | MONMOUTH (WYESHAM)             | SO 51500-11900    | C                 | A        |
| AL1002001       | MUCH COWARNE (MILL LANE)       | SO 62100-46900    | U                 | A        |
| AN0150201       | MUCH COWARNE (MOOR END)        | SO 64200-46600    | U                 | A        |
| AN0150101       | MUCH COWARNE (NO.3 MOOR END)   | SO 64000-46000    | U                 | A        |
| AH1002701       | MUCH DEWCHURCH (A)             | SO 48500-31200    | C                 | A        |
| IWC             | NANTDDU (W.W.A HOUSE)          | SO 00200-15200    | U                 | A        |
| IWD             | NEUADD (CANDY FILTER HOUSE) WT | SO 03000-18600    | U                 | A        |
| IWE             | NEUADD COTTAGE                 | SO 03200-18000    | U                 | A        |
| IWF             | NEUADD FARM                    | SO 06000-14500    | U                 | A        |
| AW1004501       | NEW RADNOR                     | SO 21630-60740    | U                 | A        |
| AS1003301       | NEWLAND                        | SO 55100-09010    | C                 | A        |
| AL1002301       | OCLE PYCHARD                   | SO 58920-46410    | C                 | A        |
| AN0133901       | OLD RADNOR                     | SO 24800-58900    | U                 | A        |
| AW1004901       | PAINSCASTLE                    | SO 17100-46300    | C                 | A        |
| AW1005001       | PANTYDWR                       | SN 98400-74600    | U                 | A        |
| AN0098001       | PANTYGASSEG                    | ST 25100-99900    | U                 | A        |
| AL1002401       | PEMERIDGE                      | SO 39300-58580    | C                 | A        |
| AD0010801       | PENCELLI                       | SO 09400-25500    | C                 | A        |
| AL1002501       | PENCOMBE                       | SO 60280-52700    | U                 | A        |
| AG0011001       | PENDOYLAN                      | ST 06200-76700    | U                 | A        |
| AS1003401       | PENRHOS                        | SO 41600-11600    | U                 | A        |
| IWG             | PENTWYN RESERVOIR COTTAGE      | SO 05600-14600    | U                 | A        |
| AH1003001       | PETERCHURCH                    | SO 34800-37950    | C                 | A        |
| AG0011401       | PETERSTON-SUPER-ELY            | ST 08600-76300    | C                 | A        |
| AH1003101       | PIPE & LYDE                    | SO 50151-44330    | U                 | A        |
| AH1003301       | PONTRILAS                      | SO 39460-27770    | C                 | A        |
| AG0011101       | PONTSARN                       | SO 04500-09700    | C                 | A        |
| AN0121001       | PONTSHILL (WOODVIEW)           | SO 64500-20500    | U                 | A        |
| AN0179301       | PONTSTICILL (FILTER HOUSE)     | SO 06100-11700    | C                 | A        |
| AN0179901       | PONTSTICILL (RESERVOIR WORKS)  | SO 06100-11700    | C                 | A        |
| AH1003201       | PRESTON WYNNE                  | SO 56060-46020    | C                 | A        |
| AL1002601       | PRESTON-ON-WYE                 | SO 38400-42300    | C                 | A        |
| AS1004201       | REDBROOK                       | SO 53800-09800    | C                 | A        |
| AE2021601       | RHYDLAFAR                      | ST 11000-79770    | U                 | A        |
| AE2031301       | RHYMNEY BRIDGE FILTER HOUSE    | SO 10300-10000    | C                 | A        |
| AS1003601       | ROCKFIELD                      | SO 48550-14760    | C                 | A        |
| AS1003901       | RUARDEAN                       | SO 61800-17900    | U                 | A        |
| AN0121501       | RUARDEAN (THE PLUDDS)          | SO 61670-16090    | U                 | A        |
| AA0002301       | SCETHROG & PENNORTH            | SO 10800-25000    | C                 | A        |
| AC0140301       | SENNYBRIDGE (ARMY CAMP)        | SN 92400-29400    | C                 | A        |
| AN0150401       | SHIRENEWTON                    | ST 47500-94200    | U                 | A        |
| AL1002801       | SPARRINGTON                    | SO 57100-54100    | U                 | A        |
| AS1004401       | ST. ARVANS                     | ST 51760-96190    | U                 | A        |

## APPENDIX 6

## South Eastern Area Category A Inland STWs

| Consent<br>Ref. | Works<br>name                  | Works Grid<br>Ref | Class/<br>Unclass | Category |
|-----------------|--------------------------------|-------------------|-------------------|----------|
| AS1004501       | ST.BRIAVELS                    | SO 55040-04630    | C                 | A        |
| AG0008501       | ST.FAGANS                      | ST 12200-77100    | C                 | A        |
| AG0013201       | ST.NICHOLAS                    | ST 08700-73200    | U                 | A        |
| AS1004601       | ST.OWENS CROSS (PERRYFIELDS)   | SO 53700-24560    | U                 | A        |
| AH1004801       | ST.WEONARDS                    | SO 49200-24100    | C                 | A        |
| AL1002901       | STANFORD BISHOP                | SO 68750-52030    | U                 | A        |
| AN0150301       | STAUNTON (GLOUCESTERSHIRE)     | SO 55200-12700    | U                 | A        |
| AL5000201       | STAUNTON-ON-WYE                | SO 36350-44560    | C                 | A        |
| AH1003401       | STOKE EDITH                    | SO 59780-40760    | U                 | A        |
| AL1000801       | STOKE LACY (CRICKS GREEN)      | SO 63370-51560    | C                 | A        |
| AN0149601       | STOKE LACY (SWEDISH HOUSES)    | SO 62400-50300    | U                 | A        |
| AN0150601       | STRETTON GRANDISON             | SO 63300-44000    | U                 | A        |
| AH1004201       | SUTTON ST.NICHOLAS (C.T.BISHOP | SO 52900-45300    | C                 | A        |
| AN0020201       | TAIR ONEN                      | ST 03760-74650    | U                 | A        |
| AN0089401       | TALYBONT WTW SEPTIC TANK NO. 1 | SO 10610 20760    | U                 | A        |
| AN0146601       | THE NARTH (FOREST VIEW)        | SO 52300-06800    | U                 | A        |
| AW2000201       | TIRABAD                        | SN 87870-41490    | U                 | A        |
| AN0106601       | TRETOWER                       | SO 18800-21100    | C                 | A        |
| IWI             | TYNYWAUN                       | SS 93300-99300    | U                 | A        |
| AN0149701       | ULLINGSWICK (BULLOCKS BRIDGE)  | SO 58900-48070    | U                 | A        |
| AN0121101       | UPTON BISHOP (BIRTLETONS)      | SO 64600-27100    | U                 | A        |
| AS1005301       | WALFORD (COUGHTON PLACE)       | SO 59610-21170    | C                 | A        |
| AN0178901       | WALFORD (NO.8 NORLAND PLACE)   | SO 59000-20000    | U                 | A        |
| AH1003801       | WESTON BEGGARD                 | SO 58700-41700    | C                 | A        |
| AS1005601       | WESTON-UNDER-PENYARD (DAIRY CO | SO 63340-24400    | U                 | A        |
| AS1005801       | WILTON                         | SO 58350-23930    | C                 | A        |
| AL1003601       | WOLFERLOW                      | SO 67220-62100    | C                 | A        |
| AH1003901       | WOOLHOPE                       | SO 61500-35500    | C                 | A        |
| AH1004001       | WOOLHOPE (THE NURDENS)         | SO 62120-36080    | C                 | A        |
| AG0007901       | YNYSMARDEY (HOUSING ESTATE)    | ST 03450-84300    | C                 | A        |

APPENDIX 6      South Eastern Area      Category A Tidal STWs

| Consent<br>Ref. | Works<br>name                 | Works Grid<br>Ref | Category |
|-----------------|-------------------------------|-------------------|----------|
| AB0050001       | CAERLEON                      | ST 33000-90600    | A        |
| AN0214001       | CAERLEON ROAD                 | ST 33720 89530    | A        |
| AA0024301       | CALDICOT                      | ST 47800-87400    | A        |
| AB0050201       | CHRISTCHURCH                  | ST 33980-89760    | A        |
| AF4027601       | EAST ABERTHAW                 | ST 03300-66700    | A        |
| AS1002201       | LLANDOGO                      | SO 52800-04200    | A        |
| AC0105301       | MAGOR STW - WHITBREAD BREWERY | ST 43700-84500    | A        |
| AB0067101       | NASH                          | ST 33700-84100    | A        |
| AB0064101       | PONTHIR                       | ST 33400-92600    | A        |
| AS1004801       | SEDBURY                       | ST 54000-93420    | A        |
| AN0024001       | ST BRIDES                     | ST 29800-81400    | A        |
| AS1004901       | TINTERN                       | SO 53520-00460    | A        |

APPENDIX 6      South Eastern Area      Category D Inland STWs

| Consent<br>Ref. | Works<br>name                  | Works Grid<br>Ref | Class/<br>Unclass | Category |
|-----------------|--------------------------------|-------------------|-------------------|----------|
| AW1000401       | BWLCH (NORTH)                  | SO 14500-22800    | U                 | D        |
| AN0064201       | CROSS INN                      | ST 05320 82450    | U                 | D        |
| AH1002501       | MUCH BIRCH (TUMP LANE)         | SO 49720-30670    | C                 | D        |
| IWJ             | PERTHCelyn                     | ST 05300-97100    | U                 | D        |
| AG0019401       | RHIWSAESON (NEW)               | ST 07320 82730    | C                 | D        |
| AG0019301       | RHIWSAESON (OLD)               | ST 06880 82620    | C                 | D        |
| AS1005501       | WALFORD (NORLAND PLACE)        | SO 59300-20900    | C                 | D        |
| AN0079401       | WENVOE                         | ST 12700-73100    | U                 | D        |
| AS1005701       | WESTON-UNDER-PENYARD (PENYARD  | SO 63660-23040    | U                 | D        |
| AH1004101       | WORMELOW TUMP                  | SO 49400-30300    | C                 | D        |
| AG0011301       | YNYSMAERDY (INDUSTRIAL ESTATE) | ST 03780-84280    | C                 | D        |



## APPENDIX 7

South Western Area

Category B Inland STWs Prioritised

| CONSENT<br>REFERENCE | WORKS NAME              | CLASS/<br>UNCLASS | DIRECTIVE       | LTRQO | USES CONSTRAINED              | COMMENTS  |
|----------------------|-------------------------|-------------------|-----------------|-------|-------------------------------|---|
| BH0054701            | BOWSTREET (PENRHYNCOCH) | C                 | FISHERIES       | 1B    | 2 ALL BUT POTABLE & SHELLFISH | PROBLEM IS WITH SEVERE INFILTRATION FROM SNO'S Also BH0054702                           |
| BC0006801            | GARNSWLLT               | C                 | FRESHWATER FISH | 1B    | 2 FISHERY                     |   |
| BC0016601            | TREBANOS                | C                 | FRESHWATER FISH | 1B    | 2 AMENITY, FISHERY            | TREATMENT GIVEN DOES NOT REDUCE AMMONIA LEVELS IN EFFLUENT                              |
| BG0007701            | NARBERTH EAST           | U                 |                 | (1B)  | 2 FISHERY                     | CLOSED  |
| BP0063801            | LUDCHURCH               | U                 |                 | (1B)  | 2 STOCK WATERING              | BMWP NOT POSSIBLE. SEVERE SEPTICITY IN POND IN SUMMER                                   |
| BN0166701            | TEMPLETON               | U                 |                 | (1B)  | 1 FISHERY                     | INSUFFICIENT DILUTION TO ALLOW FURTHER DEVELOPMENT.                                     |
| BP0034001            | AMROTH                  | U                 |                 | (1B)  | 1 BATHING                     | LT CONSENT HAS BOD LIMIT, NO AMMONIA. AMMONIA STANDARD WILL NEED TO BE APPLIED          |
| BE0039501            | LLANGYNDEYRN            | C                 |                 | 1B    | 0                             |   |
| BG0043501            | GORSGOCH                | U                 |                 | (1A)  | 0                             |   |
| BG0011501            | ST ISHMAELS             | U                 |                 | (1B)  | 0                             | STORM DISCHARGE PROBLEMS?   |
| BG0029501            | CLYNDERWEN              | U                 |                 | (1B)  | 0                             | LOW DILUTION (<6:1). EXISTING HIGH CONSENT  |
| BP0044201            | CAREW                   | U                 |                 | (1B)  | 0                             | PREDICT BIOLOGICAL SURVEY WILL SHOW NO IMPACT   |
| BF0083301            | PENYGOES/BLAENAU        | C                 |                 | 1B    | 0                             | NEW FILTERS/HUMUS TANK COMMISSIONED 1992. REASSESS                                      |
| BC0001501            | CROSSHANDS              | U                 |                 | (1B)  | 1 FISHERY/AMENITY             | IMPROVEMENTS URGENTLY REQUIRED  |
| BF0169101            | YSTRADGYNLAIS           | C                 |                 | 1B    | 1 AMENITY                     | STORM PROBLEMS. HYDRAULICALLY OVERLOADED. PLANNING EMBARGO ON AREAS FEEDING WORKS       |
| BH0065101            | PENPARC                 | U                 |                 | (1B)  | 1 STOCK WATERING              | VERY LOW DILUTION DRY IN SUMMER. <1:1   |
| BH0064701            | LETTERSON EAST          | U                 |                 | (1B)  | 0                             | LT PROPOSALS TO ABANDON AND PUMP TO LETTERSTON WEST?                                    |
| BG0012001            | LANGDON                 | U                 |                 | (1B)  | 1 FISHERY                     |   |
| BH0072801            | FFOSTRASOL              | U                 |                 | (1B)  | 1 STOCK WATERING              | LOW DILUTION  |
| BA1015401            | WICK                    | U                 |                 | 1A    | 1 STOCK WATERING              | RECEIVING WATERCOURSE THOUGHT TO DISCHARGE TO SWALLOW HOLES LINKED TO SCHWYLL.          |
| BP0000101            | MAESTEG                 | C                 |                 | 2     | 1 AMENITY                     | SUMMER FLOW PROBLEMS. LTRQO MAY BE 1B. OPPOSITION TO PLANNING DEVELOPMENTS. EI MASKED E |
| BA2001101            | CRYNANT                 | C                 |                 | 1B    | 1 AMENITY                     | SAMPLE PT. LONG WAY D/S FROM STW. MUCH FOUL FLOW FREQ. DIVERTED VIA CSO. REASSESSED     |
| BJ0078801            | GOLDEN GROVE            | U                 |                 | (1A)  | 1 STOCK WATERING              |   |
| BA2001301            | RESOLVEN                | C                 |                 | 1B    | 1 AMENITY                     | DISCOLOURATION AND SEWAGE FUNGUS D/S. HUMUS TANKS TOO SMALL AND NOT WORKING WELL        |
| BN0010301            | BLAENFFOS               | U                 |                 | (1A)  | 1 STOCK WATERING              | LOW DILUTION. NON EP CONSENT  |
| BN0013701            | HENLLAN                 | C                 |                 | 1A    | 0                             | DECREASE IN HIGH SCORING TAXA NOT CAUSED BY SUBSTRATE DIFFERENCE BETWEEN SITES          |
| BN0000501            | MYDROILIN               | C                 |                 | 1A    | 0                             | SF LOCALISED, DUE TO DISCHARGE INTO SLACK WATER AT LOW SUMMER FLOWS.                    |
| BN0202701            | LLANDOVERY              | C                 | Freshwater Fish | 1A    | 0                             | RECENT IMPROVEMENTS AT WORKS SHOULD SOLVE SF PROBLEM.                                   |
| BH0050901            | CILYCM                  | U                 |                 | 1A    | 0                             | REQUIRES HUMUS TANK   |
| BG0001201            | BONCATH                 | U                 |                 | (1A)  | 0                             | NEW WORKS 1992 AND EP CONSENT. REASSESS?  |
| BN0077601            | LLANFYNYDD              | U                 |                 | (1A)  | 0                             |   |
| BP0044503            | LLANBOIDY               | U                 |                 | (1B)  | 0                             |   |
| BG0019001            | CROESGOCH               | U                 |                 | (1B)  | 0                             |   |
| BP0013501            | RHYDLEWIS               | U                 |                 | (1A)  | 0                             | MAY DRY. DILN 1:1 DWF.  |
| BP0087901            | KEESTON                 | U                 |                 | (1B)  | 0                             | WORKS OVERDESIGNED. SF CAUSED BY DISCHARGE TO SLACK WATER UNDER LOW SUMMER FLOWS.       |
| BN0269501            | LLANYBRI                | U                 |                 | (1B)  | 0                             | CONSENT SHOULD BE EP. OXIDATION CAPACITY IMPROVED. NOT REQUIRE CAPITAL WORK             |
| BA1002401            | HIRWAUN                 | C                 |                 | 1B    | 0                             | LACK OF DILUTION  |
| BG0000401            | MAENCLOCHOG             | U                 |                 | (1B)  | 0                             | DILN. 11:1 DWF. CLOSE TO EP CONSENT   |
| BH0055701            | NEWGALE                 | U                 |                 | (1B)  | 0                             | PLANNED OP IMPROVEMENTS 93/94, 94/95  |
| BE0016301            | FOUR ROADS              | U                 |                 | 1B    | 0                             | Low Dilution of Receiving water   |
| BG0018701            | HERMON                  | U                 |                 | (1B)  | 0                             | PREDICTED BIOLOGICAL SURVEY WILL SHOW NO BIOLOGICAL IMPACT                              |
| BN0168801            | CLARACH                 | C                 |                 | 1B    | 0                             | TO BE ABANDONED WITHIN 2 YEARS - ABEYSTWYTH B/W SCHEME                                  |

## APPENDIX 7

South Western Area

Category B Inland STWs Prioritised

| CONSENT<br>REFERENCE | WORKS NAME                | CLASS/<br>UNCLASS | DIRECTIVE | LTRQO | USES CONSTRAINED | COMMENTS  |
|----------------------|---------------------------|-------------------|-----------|-------|------------------|---|
| BJ0078601            | BETHLEHEM                 | U                 |           | (1A)  | 0                | NEW AUTO-DESLUDGE ON HUMUS SINCE '92  |
| BG0017601            | PUNCHESTON                | U                 |           | (1A)  | 0                |   |
| BC0002501            | REYNOLDSTON               | U                 |           | (1B)  | 0                | NO CAPITAL WORKS REQUIRED   |
| BG0022201            | ST NICHOLAS               | U                 |           | (1A)  | 1 Stock Watering | DILN. SHOULD BE 90:1 AT DWF. CHECK LOCATION.  |
| BG0037301            | NANTERNIS                 | U                 |           | (1A)  | 0                | RECENT IMPROVEMENTS. REDUCTION IN HIGH SCORING TAXA NOT DUE TO A SUBSTRATE DIFFERENCE   |
| BG0038701            | CROSS INN AND NEBO        | U                 |           | (1A)  | 0                |   |
| BN0085301            | TALLEY                    | U                 |           | (1A)  | 0                | REQUIRES STORM TANK.  |
| BJ0078501            | ASHFIELD ROW              | U                 |           | (1A)  | 0                | RELOCATION OF O/F TO TYWI IMINENT. WILL BE ISSUED WITH DESC. CONSENT. REASSESS          |
| BG0003501            | CASTLEMORRIS              | U                 |           | (1A)  | 0                | DISCHARGE TO INACCESS. DITCH 100M U/S W. CLEDDAU. DITCH DRIES. CONSENT EP AT MAIN RIVER |
| BG0016901            | SPITTAL                   | U                 |           | (1B)  | 0                |   |
| BG0034601            | MERRION CAMP (CASTLEMARTI | U                 |           | (1B)  | 0                |   |
| BP0219002            | SALEM                     | U                 |           | (1A)  | 0                |   |
| BN0280301            | REYNALTON                 | U                 |           | (1B)  | 1 STOCK WATERING | CONSENTED FOR DISCHARGE TO LOVESTON LAKE BUT DISCHARGES TO TRIB.                        |
| BP0134701            | CAERFACHELL               | U                 |           | (1B)  | 2 STOCK WATERING | VERY LOW DILUTIONNEW WORKS/LOCATION NEEDED  |
| BG0002201            | CAPEL BANGOR              | U                 |           | (1B)  | 1 AMENITY        |   |
| BG0004801            | DEVILS BRIDGE             | U                 |           | 2     | 1 AMENITY        |   |
| BC0017801            | CARWAY                    | U                 |           | (1B)  | 0                |   |
| BG0014501            | CLARBESTON ROAD NO 1      | U                 |           | (1B)  | 0                | DILN. 2:1 DWF. AESTHETIC IMPACT AND PRESSURE FOR DEVELOPMENT                            |
| BP0219501            | NEWCHAPEL                 | U                 |           | (1A)  | 0                |   |
| BN0003601            | NARBETH WEST              | U                 |           | A     | 0                |   |
| BN0015801            | BEULAH                    | U                 |           | (1A)  | 1 STOCK WATERING | LOW DILUTION. NO BIOLOGY  |
| BC0006101            | LLANSAIN                  | U                 |           | (1B)  | 0                | NO DILUTION FOR FUTURE DEV. BORDERLINE  |
| BC0019001            | TRIMSARAN                 | C                 |           | 1B    | 0                | NO BIOLOGY, DISCHARGE COULD NOT BE FOUND  |
| BG0013101            | TIERS CROSS               | U                 |           | (1B)  | 1 STOCK WATERING | LOW DILUTIONDILUTION <3:1 DWF. AESTHETIC IMPACT. NO BIOLOGY                             |

APPENDIX 7

South Western Area

Area Category B Tidal STWs Prioritised

| CONSENT<br>REFERENCE | WORKS NAME           | ASSOCIATED<br>DIRECTIVE | USES CONSTRAINED                 | COMMENTS  |
|----------------------|----------------------|-------------------------|----------------------------------|---|
| BF0093607            | LLANELLI             | SHELLFISH               | 2 Shellfishery, Bathing, Amenity | Remedial measures urgent but currently under way.                                       |
| BF0177701            | BURRY PORT           | SHELLFISH               | 2 SHELLFISH GATHERING            | PART OF LOUGHOR SCHEME  |
| BC0000201            | PWLL                 | SHELLFISH               | 2 SHELLFISH GATHERING            | PART OF LOUGHOR SCHEME, Will be abandoned 1996  |
| BB3006701            | PENYBONT (MERTHYR MA | BATHING WATER           | 0                                | AFFECTS SOUTHERN DOWN. POSSIBLE AMMONIA IMPACT ON ESTUARY.                              |
| BC0003201            | BYNEA AND HALFWAY ST | SHELLFISH               | 2 SHELLFISH GATHERING            | PART OF LOUGHOR SCHEME  |
| BP0077701            | SAUNDERSFOOT         | BATHING                 | 2 BATHING                        |   |
| BC0003001            | GOWERTON             | SHELLFISH               | 2 SHELLFISH GATHERING            | RELATED TO LOUGHOR SCHEME   |
| BF0147002            | KIDWELLY             | SHELLFISH               | 0                                | May not cause failure to meet objectives. Visual impact when sludge press in operation. |
| BH0053401            | PARCYSPLOTTS         |                         | 2 WATER CONTACT, RECREATION      | 105.3 (L/S)   |
| BP0062301            | LLANGRANOG (SEPTIC T |                         | 2 BATHING, WATER CONTACT, AMEN   | S.S. 150 mg LOWER TIER CONSENT DETERMINED DURING DEEMED CONSENT EXERCISE                |
| BP0043802            | OGOF MARTHA          | SHELLFISH               | 2 SHELLFISH, WATER CONTACT, AM   | SIGNIFICANT PUBLIC PRESSURE TO IMPROVE SEWERAGE ARRANGEMENTS                            |
| BP0063401            | GOODWICK             | SHELLFISH               | 2 SHELLFISH, WATER CONTACT, AM   | SIGNIFICANT PUBLIC PRESSURE TO IMPROVE SEWERAGE ARRANGEMENTS                            |
| BP0062101            | ABERARTH             |                         | 1 Shellfishery                   |   |
| BC0018601            | LLANNANT             |                         | 0                                | DILUTION WORK NEEDS DOING   |
| BP0151701            | FISHGUARD            | SHELLFISH               | 2 SHELLFISH, WATER CONTACT, AM   | SIGNIFICANT PUBLIC PRESSURE TO IMPROVE SEWERAGE ARRANGEMENTS                            |
| BH0074101            | CARDIGAN             |                         | 2 Bathing, Cont., Fishery, Amen. |   |
| BP0062701            | ST DAVIDS            |                         | 0                                |   |
| BP0054801            | OVERTON              |                         | 0                                | SEASONAL OVERLOADING. DISCHARGE OF SEWAGE DEBRIS.                                       |

## APPENDIX 7

## South Western Area Category A Inland STWs

| Consent<br>Ref. | Works<br>name          | Works Grid<br>Ref | Class/<br>Unclass | Category |
|-----------------|------------------------|-------------------|-------------------|----------|
| BM0028101       | ABERCRAF               | SN 80800-12400    | C                 | A        |
| BA2001201       | ABERGARWED             | SN 81600-02300    | C                 | A        |
| BN0007002       | ABERGORLECH            | SN 58630-33800    | C                 | A        |
| BN0112801       | ADPAR                  | SN 30400-41000    | C                 | A        |
| BN0037001       | ALLTWALIS              | SN 44300-31360    | U                 | A        |
| BG0028801       | ALLTYBLACCA            | SN 52400-45700    | C                 | A        |
| BG0001101       | AMBLESTON              | SN 00200-25500    | U                 | A        |
| BN0269701       | BANCYFELIN             | SN 32500-17900    | C                 | A        |
| BN0000302       | BRECHFA                | SN 53020-30210    | C                 | A        |
| BJ0078701       | BROAD OAK              | SN 57720-22470    | U                 | A        |
| BP0211901       | BRONWYDD               | SN 41950-24770    | U                 | A        |
| BA2039701       | BRYN TERRACE           | SS 87800-88300    | U                 | A        |
| BC0003201       | BYNEA FAWR FARM        | SS 54800-99000    | U                 | A        |
| BN0042101       | CAIO                   | SN 67480-39680    | U                 | A        |
| BG0004901       | CAMROSE                | SM 92500-20100    | U                 | A        |
| BN0054901       | CAPEL IWAN             | SN 29300-36100    | U                 | A        |
| BE0042501       | CARMEL AND PANTLLYN    | SN 60100-17400    | U                 | A        |
| BN0008101       | CELLAN                 | SN 60200-49000    | C                 | A        |
| BG0049001       | CENARTH                | SN 26900-41200    | C                 | A        |
| BP0101201       | CENARTH 2 (GLANYRAFON) | SN 26570-41660    | C                 | A        |
| BP0217801       | CILGERRAN              | SN 19400-43300    | U                 | A        |
| BA2001001       | CLYNE                  | SN 79800-00400    | C                 | A        |
| BG0028101       | CONWYL ELFED           | SN 37670-26980    | C                 | A        |
| BP0152501       | COOMBE                 | SN 33520-14040    | U                 | A        |
| BG0027001       | CRIBYN                 | SN 51500-51200    | U                 | A        |
| BJ0076101       | CRUGYBAR               | SN 65600-37600    | U                 | A        |
| BP0044401       | CRYMYCH                | SN 18300-34700    | U                 | A        |
| BN0072901       | CWMDUAD                | SN 37790-30760    | C                 | A        |
| BC0010601       | CWMGWILI               | SN 57700-10400    | C                 | A        |
| BA1005701       | CWMGWACH               | SN 86400-05500    | C                 | A        |
| BN0103601       | CWMIFOR                | SN 66030-25100    | C                 | A        |
| BC0015601       | CWMTAWEL               | SN 57200-11200    | C                 | A        |
| BN0018001       | CWRT HENRI             | SN 55400-22800    | C                 | A        |
| BN0005601       | CWRTNEWYDD             | SN 49400-47100    | C                 | A        |
| BJ0076001       | CYNGHORDY              | SN 80300-39930    | U                 | A        |
| BN0059501       | DIHEWYD                | SN 48200-56600    | U                 | A        |
| BH0060601       | DREFACH/VELINDRE       | SN35100-39900     | C                 | A        |
| BG0047901       | EGLWYSWRW              | SN 13800-38500    | U                 | A        |
| BC0020401       | FELINDRE               | SN 63100-03000    | U                 | A        |
| BH0073201       | FELINDRE FARCHOG       | SN 09800-39000    | C                 | A        |
| BJ0075601       | FELINGWM UCHAF         | SN 50870-24420    | U                 | A        |
| BH0065401       | FFAIRFACH              | SN 61750-21100    | C                 | A        |
| BN0077501       | FFARMERS               | SN 64820-44540    | C                 | A        |
| BA2026901       | PFORESTGOCH            | SN 74200-01600    | U                 | A        |
| BG0018801       | GLOGUE                 | SN 22000-32500    | U                 | A        |
| BH0055601       | GREENFIELD TERRACE     | SN 50800-42300    | U                 | A        |
| BP0164501       | GWYNFE                 | SN 72420-21920    | U                 | A        |
| BP0019601       | KILGETTY               | SN 13100-07500    | U                 | A        |
| BP0045001       | LAMPETER               | SN 57600-47600    | U                 | A        |
| BG0023601       | LAMPETER VELFREY       | SN 15600-14800    | U                 | A        |
| BG0022401       | LAMPHEY                | SN 01900-00800    | C                 | A        |
| BH0071101       | LETTERSTON WEST        | SM 92880-29030    | C                 | A        |
| BE0027201       | LLANDDAROG             | SN 49300-16300    | C                 | A        |
| BG0023501       | LLANDDEWI BREFI        | SN 65700-55100    | C                 | A        |
| BG0013201       | LLANDDEWI VELFREY      | SN 14300-16900    | C                 | A        |
| BG0010201       | LLANDYSSUL             | SN 41800-40200    | C                 | A        |
| BH0070801       | LLANFAIR CLYDOGAU      | SN 62200-51200    | C                 | A        |
| BP0015201       | LLANFARIAN             | SN 59200-77700    | C                 | A        |
| CG0058101       | LLANFECHELL            | SH 37400-91400    | U                 | A        |
| BN0020802       | LLANFIHANGEL-AR-ARTH   | SN 45500-40000    | C                 | A        |
| BN0002901       | LLANFYRNACH            | SN 22000-31000    | U                 | A        |
| BG0040001       | LLANGADOG              | SN 70080-28000    | C                 | A        |
| BN0002701       | LLANGEITHO             | SN 61200-58800    | C                 | A        |
| BG0021501       | LLANGYBI               | SN 60600-53100    | U                 | A        |
| BN0095701       | LLANGYNOG              | SN 33800-16010    | U                 | A        |
| BN0099101       | LLANILAR               | SN 62300-75500    | C                 | A        |
| BC0001601       | LLANNON                | SN 53740-07250    | C                 | A        |
| BN0049101       | LLANPUMPSAINT          | SN 41600-29100    | C                 | A        |
| BN0160301       | LLANRHYSTUD            | SN 53300-69400    | C                 | A        |
| BH0062601       | LLANSAWEL              | SN 62320-36180    | C                 | A        |
| RG0026201       | LLANWEN                | SN 53400-46900    | C                 | A        |
| BJ0091401       | LLANYBYDDER            | SN 51600-43100    | C                 | A        |
| BG0036801       | LLANYCHAER             | SM 98600-35500    | C                 | A        |
| BG0024901       | LLECHRYD               | SN 21100-43600    | C                 | A        |
| BG0027301       | LLWYNCELYN             | SN 43900-59300    | U                 | A        |
| BJ0085001       | LLYS Y FRAN DAM        | SN 03800-24300    | C                 | A        |
| BG0022701       | MARLOES                | SM 79700-08400    | U                 | A        |

| Consent<br>Ref. | Works<br>name                | Works Grid<br>Ref | Class/<br>Unclass | Category |
|-----------------|------------------------------|-------------------|-------------------|----------|
| BG0037101       | MEIDRIM                      | SN 28960-20430    | C                 | A        |
| BP0134601       | MIDDLE MILL (SEPTIC TANK)    | SM 80600-25800    | C                 | A        |
| BG0010301       | MOYLEGROVE                   | SN 11500-44900    | U                 | A        |
| BH0050801       | MYDDFAI                      | SN 77550-29740    | U                 | A        |
| BN0002601       | NANTGAREDIG                  | SN 50360-21580    | C                 | A        |
| BD0031001       | NANTGWINEU                   | SN 69900-14100    | U                 | A        |
| BG0014001       | PANTEG                       | SM 92700-34900    | U                 | A        |
| BG0007801       | PENCADER                     | SN 44400-36500    | C                 | A        |
| BN0015601       | PENNANT                      | SN 50900-63000    | C                 | A        |
| BG0036101       | PENTRECWRT                   | SN 38900-39100    | C                 | A        |
| BG0004401       | PONTERWYD                    | SN 75200-80900    | U                 | A        |
| BA2014001       | PONTNEDDPECHAN               | SN 90300-07700    | C                 | A        |
| BG0023001       | PONTRHYDCEIRT STW LLWYNCELYN | SN 21100-42600    | U                 | A        |
| BN0040202       | PONTRHYDPENDIGAID            | SN 72800-66800    | C                 | A        |
| BE0000206       | PONTYATES                    | SN 47200-08700    | C                 | A        |
| BC0021001       | PONTYBEREM                   | SN 49400-10900    | C                 | A        |
| BN0077401       | PUMPSAINT                    | SN 65840-40580    | C                 | A        |
| BN0072501       | RED ROSES                    | SN 19700-11600    | U                 | A        |
| BN0008801       | REDCLIFFE                    | SN 11000-13500    | U                 | A        |
| BH0050701       | RHANDIRMWYN                  | SN 78130-43230    | C                 | A        |
| BG0029101       | RHOSCROWTHER                 | SM 90000-02200    | U                 | A        |
| BG0038101       | RHOSHILL                     | SN 19300-40000    | U                 | A        |
| BE0064501       | RHYD-Y-PANDY                 | SN 66500-02200    | U                 | A        |
| BP0101301       | RHYDYFELIN                   | SN 59070-79010    | C                 | A        |
| BN0267001       | ROSEBUSH                     | SN 07300-29300    | U                 | A        |
| BG0000501       | ROSEMARKET                   | SM 95300-07900    | U                 | A        |
| BH0058201       | SCLEDDAU                     | SM 94600-33900    | U                 | A        |
| BL0138601       | SOLVA                        | SM 80700-24100    | U                 | A        |
| BH0056001       | ST FLORENCE                  | SN 08700-01000    | U                 | A        |
| BJ0079201       | ST.TWYNNELLS                 | SR 94800-97800    | U                 | A        |
| BB4018701       | STORMY DOWN                  | SS 83700-80500    | U                 | A        |
| BP0095901       | SWEET WELLS                  | SS 90700-89200    | U                 | A        |
| BG0011001       | TALGARREG                    | SN 42500-51000    | U                 | A        |
| BG0025601       | TALSARN                      | SN 54400-56300    | C                 | A        |
| BH0056201       | TAVERNSPITE                  | SN 18300-13000    | U                 | A        |
| BJ0075101       | TRAPP                        | SN 65370-18980    | U                 | A        |
| BN0071601       | TREFFGARNE                   | SM 95800-22970    | C                 | A        |
| BH0057801       | TREGARON                     | SN 67300-59200    | C                 | A        |
| BN0269401       | TRELECH                      | SN 28200-30100    | U                 | A        |
| BH0052401       | TREVINE                      | SM 83700-32300    | U                 | A        |
| BP0164601       | TWYNLLANAN                   | SN 75430-24260    | U                 | A        |
| BH0073801       | VERWIG                       | SN 18200-49400    | U                 | A        |
| BN0083801       | WALTON EAST                  | SN 02300-23000    | U                 | A        |
| BL0138501       | WHITLAND                     | SN 20200-16400    | C                 | A        |
| BH0068601       | WOLFSCASTLE                  | SM 95800-26600    | C                 | A        |
| BA1014501       | YNYSARWED                    | SN 81400-02100    | C                 | A        |

APPENDIX 7 South Western Area Category A Tidal STWs

| Consent<br>Ref. | Works<br>name           | Works Grid<br>Ref | Category |
|-----------------|-------------------------|-------------------|----------|
| BG0019601       | ANGLE                   | SM 87400-03300    | A        |
| BP0054601       | BISHOPSTON              | SS 58300-87800    | A        |
| BG0046401       | COSHESTON               | SN 00100-03500    | A        |
| BC0016101       | CROFTY (TRADING ESTATE) | SS 52300-95600    | A        |
| BP0063201       | DINAS                   | SN 01000-39700    | A        |
| BJ0087001       | FERRYSIDE               | SN 37200-11470    | A        |
| BC0003701       | HENDY                   | SN 58300-03300    | A        |
| BG0016701       | HERBRANDSTON            | SM 86900-07200    | A        |
| BN0000402       | HOOK                    | SM 98500-11000    | A        |
| BH0066901       | HUNDLETON               | SM 96300-01400    | A        |
| BJ0091501       | JOHNSTON                | SM 93800-11100    | A        |
| BC0006501       | LLANGENNECH             | SN 56700-01000    | A        |
| BG0042201       | LLANGWM                 | SM 99500-08700    | A        |
| BE0006405       | LLANMADOC               | SS 44600-93400    | A        |
| BP0062201       | LLANON                  | SN 51000-67500    | A        |
| BC0015401       | LLANRHIDIAN             | SS 49700-92700    | A        |
| BK0111901       | LLANSTEPHAN             | SN 35600-11200    | A        |
| BP0062801       | MANORBIER               | SS 06200-97800    | A        |
| BJ0087401       | MERLINS BRIDGE          | SM 95500-14600    | A        |
| BN0192501       | MILTON                  | SN 04100-03200    | A        |
| BH0069602       | NEYLAND                 | SM 95800-05400    | A        |
| BP0054901       | OXWICH                  | SS 49500-85200    | A        |
| BN0077102       | PANTYRATHRO             | SN 36830-13570    | A        |
| BC0013401       | PEMBREY                 | SN 41500-00000    | A        |
| BC0013901       | PENCLAWDD               | SS 54500-95900    | A        |
| BJ0084201       | PENDINE                 | SN 23800-07900    | A        |
| BP0063901       | PENYBONT/NEWPORT        | SN 06100-39500    | A        |
| BN0000701       | PORTHGAIN               | SM 81400-32600    | A        |
| BP0054501       | RHOSSILI                | SS 42800-87600    | A        |
| BP0082701       | SKRINKLE                | SS 08200-97500    | A        |
| BP0054701       | SOUTHGATE (HAEL LANE)   | SS 55700-87800    | A        |
| BG0024501       | ST. CLEARS              | SN 28570-15030    | A        |
| BP0217701       | STACKPOLE               | SR 98200-96400    | A        |
| BN0267101       | UZMASTON                | SM 97200-14100    | A        |
| BP0063101       | WALTON WEST             | SM 86300-13100    | A        |
| BH0073901       | WATERSTON               | SM 93500-06000    | A        |

APPENDIX 7 South Western Area Category D Inland STWs

| Consent<br>Ref. | Works<br>name                  | Works Grid<br>Ref | Class/<br>Unclass | Category |
|-----------------|--------------------------------|-------------------|-------------------|----------|
| BE0075601       | CUCKOO MILL                    | SS 64200-99300    | C                 | D        |
| BA2022601       | MARLAS                         | SS 81400-82300    | C                 | D        |
| BN0273501       | PENIEL                         | SN 4370-2390      | U                 | D        |
| BC0011301       | PENNARD (LINKSIDE) NORTON DRIV | SS 54950-89100    | U                 | D        |

APPENDIX 7 South Western Area Category D Tidal STWs

| Consent<br>Ref. | Works<br>name  | Works Grid<br>Ref | Category |
|-----------------|----------------|-------------------|----------|
| TDA             | NORTHUMBERLAND | SS 50800 98800    | D        |

## APPENDIX 8

### Additional STWs Not Included in the STW Strategy

#### South East Area

|           |  |                     |
|-----------|--|---------------------|
| AN0231301 | Much Dewchurch New STW                       | Post-dates strategy |
| AA0001501 | Tredunnoch STW                               |                     |
| AB0053401 | Powys Pencelli Hillcrest                     |                     |
| AN0179001 | Pencarn Lane STW                             | Is this DCWW owned? |
| AE2016601 | Martins Terrace - Former colliery properties | Is this DCWW owned? |

#### South West Area

|           |                              |                           |
|-----------|------------------------------|---------------------------|
| BA2030301 | Schwyl Septic Tank           |                           |
| BP0072801 | Llanedi STW                  | Post dates strategy       |
| BG0009701 | Mathry STW                   |                           |
| BN0021602 | Burton Ferry STW             | Is this TREATED effluent? |
| BN0267201 | Bryngwyn STW                 |                           |
| BP0014601 | Whitland The Grove Heol Shon |                           |
| BP0135401 | New Llysyfran V.'S CTR       |                           |
| BP0215901 | Narberth West STW            | Post dates strategy       |

#### Northern Area

|           |   |                           |
|-----------|---|---------------------------|
| CG0082001 | Bodfordd STW  |                           |
| CG0108601 | Llandegai STW   |                           |
| CG0114101 | Gaerwen STW   |                           |
| CG0134901 | Aberhosan STW   |                           |
| CG0139001 | Bontddu STW   | Is this TREATED effluent? |
| CG0314701 | Talybont STW near Bangor                              |                           |
| CM0036401 | Buckley Alltami S.L.Robinson (Not used but monitored) |                           |
| CG0035201 | Pentrefelin STW                                       | ?                         |
| CG0083201 | Glan Conwy Corner                                     | ?                         |
| CM0027601 | Chirk Whitehurst                                      | Septic Tank               |
| CM0145301 | Marli Glascoed STW                                    | ?                         |
| CM0005151 | Chirk Bank STW  | Will be PS                |

# APPENDIX 9

## Priorities for Freshwater Biological Assessment

| Cat                    | Description                                      | N      | E      | W      | Total    | Priority | Person-Day  |
|------------------------|--|--------|--------|--------|----------|----------|-------------|
| B                      | Work done, not reass.                            | 22     | 11     | 15     | 48       | 1+       | 72          |
| D                      | Abandoned, not ass.                              | 4      | 11     | 4      | 19       | 1+       | 28.5        |
| B                      | Work done, reass.                                | 9      | 7      | 13     | 29       | 1+       | 43.5        |
| A                      | Desc. consent, never ass.                        | 70(38) | 73(22) | 16(12) | 159(72)  | 2        | 238.5(130.) |
| B                      | No work done, never ass.                         | 2      | 1      | 1      | 4        | 2+       | 6           |
| A                      | Non. desc. consent,<br>Never ass.                | 55(38) | 26(23) | 56(39) | 137(100) | 2*       | 205.5(55.5) |
| B                      | No work done, data 5<br>years old in 1994        | 3      | 3      | 3      | 9        | 3+       | 13.5        |
| B                      | No work done, data 3<br>years old in 1994        | 9      | 9      | 7      | 25       | 4#       | 37.5        |
| A                      | Desc. consent, data 3<br>years old in 1994       | 2 (1)  | 0      | 0      | 2 (1)    | 4#       | 3 (1.5)     |
| A                      | Non desc. consent, data<br>3 years old in 1994   | 18(3)  | 11(2)  | 0      | 29(5)    | 4*#      | 43.5 (36)   |
| B                      | No work done, data <3<br>years old in 1994       | 51     | 38     | 27     | 116      | 5        | 174         |
| A                      | Desc. consent, data <3<br>years old in 1994      | 11(7)  | 15(4)  | 1(1)   | 27(12)   | 5        | 40.5(22.5)  |
| A                      | Non desc. consent, data<br>< 3 years old in 1994 | 65(7)  | 60(21) | 50(9)  | 175(37)  | 5*       | 262.5(207)  |
| Total Category B works |  | 96     | 69     | 66     | 231      |          |             |
| Total Category A works |  | 221    | 185    | 123    | 529      |          |             |

Person-Day estimates are based on 1.5 days per works.

Person-Day estimates in parentheses assume exempt works are not included.

\* Works in these groups, which may be converted to descriptive consents will take on the priorities of equivalent groups in the above table when they become descriptive.

+ Sampling to take place in 1994.

# Sampling to take place in 1995 or before if resources available.



Category A works which may be placed at lowest priority within each group are shown in parentheses in the above table:

| N  | E  | W  | Total |
|----|----|----|-------|
| 94 | 72 | 61 | 227   |

Prioritisation criteria within each group (Category A and B):

Dilution > 100:1  
No recent changes to works operation  
No planned changes to works operation  
Environmentally Protective numeric consent

The more of these criteria that are true for a works, the lower priority they should have within a group.

#### NO SAMPLE POSSIBLE?

If it is not possible to sample a site using standard 3 minute kick, consider sampling using the sweep technique.

If this is not possible, could assign a biological score comparing sewage fungus abundance upstream and downstream.

If this is not possible, assign a biological score of 0, 1 or 2 using other knowledge eg. if it causes eutrophication in a lake or discharges to a normally dry ditch.