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Flow Archive



UK Centre for  
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# National River Flow Archive

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## NRFA PEAK FLOW DATASET VERSION 12

Note on changes from v11.1

VERSION: 1.0

STATUS: FINAL

DATE: SEPTEMBER 2023

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## DOCUMENT VERSION CONTROL

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| Version | Date           | Author  | Description                                 |
|---------|----------------|---|---|
| 1.0     | SEPTEMBER 2023 | STEVE TURNER, CATHERINE SEFTON,<br>GAYATRI SUMAN, OLIVER SWAIN,<br>RAFAEL BARBEDO, AMIT KUMAR | Final version of note on changes from v11.1 |

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# 1 INTRODUCTION

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Version 12 of the NRFA Peak Flows Dataset contains AMAX and POT data for 917 gauging stations, of which 617 are in England, 168 are in Scotland, 94 are in Wales and 38 are in Northern Ireland. A total of 545 stations are recommended for use in pooling groups ('Suitable for Pooling'), 349 stations are 'Suitable for QMED' and 23 stations are 'Suitable for Neither'.

Version 12 contains:

- Network changes (see Section 2)
- An additional water year of data (updated to 30<sup>th</sup> September 2022) for all active peak flow stations in the UK (see section 3)
- Full period of record Data Review for a subset of stations in the dataset (89 stations, see section 4)
- Modifications to existing time series (see section 5).

## 2 NETWORK CHANGES

A number of changes have been made to the gauging stations for which peak flow data are held on the NRFA since the release of version 11. Key changes are noted in this section.

### 2.1 Removal of Gauging Stations

26 stations have been removed from the dataset, listed in Table 1. Daily flows are still held on the NRFA where indicated.

**Table 1:** Stations removed from the dataset in version 12.

| Station Number | Station Name                  | Measuring Authority | NRFA daily flow station | Comment  |
|----------------|-------------------------------|---------------------|-------------------------|--|
| 21034          | Yarrow Water at Craig Douglas | SEPA-SE             | YES                     | No confidence in flood estimation from flume equation and no flood gaugings.   |
| 23012          | East Allen at Wide Eals       | EA-NE               | YES                     | FEH Neither with no prospect of upgrade to QMED as it is a historical station.   |
| 28017          | Devon at Cotham               | EA-EM               | YES                     | FEH Neither with no prospect of upgrade to QMED as it is a historical station. Not suitable for merging with replacement station due to large gap and distance between sites.  |
| 28038          | Manifold at Hulme End         | EA-WM               | YES                     | FEH Neither with no prospect of upgrade to QMED as it is a historical station.   |
| 28047          | Oldcotes Dyke at Blyth        | EA-EM               | YES                     | FEH Neither with no prospect of update - needs significantly more gaugings at high flows in the non-modular range to instigate a rating review. But as the site is primarily installed for water resources this is not a priority. |
| 28052          | Sow at Great Bridgeford       | EA-WM               | YES                     | FEH Neither with no prospect of upgrade to QMED due to considerable scatter in gaugings below QMED.  |
| 28066          | Cole at Coleshill             | EA-WM               | YES                     | FEH Neither with no prospect of upgrade to QMED due to considerable scatter in gaugings below QMED.  |
| 30017          | Witham at Colsterworth        | EA-LN               | YES                     | FEH Neither with no prospect of upgrade to QMED. Flows are truncated around QMED so not suitable for Flood Estimation.   |
| 33009          | Bedford Ouse at Harrold Mill  | EA-EA               | YES                     | FEH Neither with no prospect of upgrade to QMED as it is a historical station.   |
| 33017          | Bedford Ouse at St Ives       | EA-EA               | NO                      | FEH Neither with no prospect of upgrade to QMED as it is a historical station.   |
| 33024          | Cam at Dernford               | EA-EA               | YES                     | FEH Neither with no prospect of upgrade to QMED. Poor hydrometrically across range of peak flows with little prospect for improvement.   |
| 33033          | Hiz at Arlesey                | EA-EA               | YES                     | FEH Neither with no prospect of upgrade to QMED. All peak flows are in the non-modular range with no correction.   |

| Station Number | Station Name                          | Measuring Authority | NRFA daily flow station | Comment  |
|----------------|---------------------------------------|---------------------|-------------------------|--|
| <b>33037</b>   | Bedford Ouse at Newport Pagnell Total | EA-EA               | YES                     | FEH Neither with no prospect of upgrade to QMED. Poor hydrometrically across range of peak flows with little prospect for improvement.   |
| <b>33057</b>   | Ouzel at Leighton Buzzard             | EA-EA               | YES                     | FEH Neither with no prospect of upgrade to QMED. All peak flows are in the non-modular range with no correction.   |
| <b>35011</b>   | Belstead Brook at Belstead            | EA-EA               | NO                      | FEH Neither with no prospect of upgrade to QMED as it is a historical station.   |
| <b>38026</b>   | Pincey Brook at Sheering Hall         | EA-HNL              | YES                     | QMED is in the non-modular range and not accounted for in the rating.  |
| <b>39015</b>   | Whitewater at Lodge Farm              | EA-T                | YES                     | FEH Neither with no prospect of upgrade to QMED and a historical station.  |
| <b>39038</b>   | Thame at Shabbington                  | EA-T                | YES                     | FEH Neither with no prospect of upgrade to QMED as it is a historical station.   |
| <b>39044</b>   | Hart at Bramshill House               | EA-T                | YES                     | FEH Neither with no prospect of upgrade to QMED. Hydrometric issues, non-modular throughout AMAX range with unreliable non-modular correction.   |
| <b>39057</b>   | Crane at Cranford Park                | EA-HNL              | YES                     | FEH Neither with no prospect of upgrade to QMED. Major rating issues, which could be resolved but unclear. Potential to add back into the dataset in the future following further work.                      |
| <b>48801</b>   | Cober at Trenear                      | EA-DC               | YES                     | Site removed due to downstream site being improved.  |
| <b>54052</b>   | Bailey Brook at Ternhill              | EA-WM               | YES                     | Poor hydrometric performance at high flows, including bypassing of the gauging station below QMED.   |
| <b>84023</b>   | Bothlin Burn at Auchengeich           | SEPA-SW             | YES                     | Flows are based on a theoretical crump weir equation only, with no calibration at flood levels when the weir is drowned out.   |
| <b>203027</b>  | Braid at Ballee                       | DfIR                | YES                     | Highest gauging is (only) 60% of QMED but far removed from current rating equation indicating that the top end of the current rating is unsuitable for QMED estimation. Flows not fully constrained at QMED. |
| <b>205010</b>  | Lagan at Banoge                       | DfIR                | YES                     | FEH Neither station with a poor range of gaugings, weed growth during summer months renders low end of rating poor, out of bank at high flows, few high flow gaugings.                                       |
| <b>206004</b>  | Bessbrook at Carnbane                 | DfIR                | NO                      | Recent (low flow) spot gauging indicates that the rating equation requires urgent review.  |

## 2.2 Addition of Gauging Stations

Four stations have been added to the dataset in version 12, listed in Table 2.

**Table 2:** Stations added to the dataset in version 12.

| Station Number | Station Name               | Measuring Authority | Suitability | NRFA daily flow station |
|----------------|----------------------------|---------------------|-------------|-------------------------|
| 17003          | Bonny Water at Bonnybridge | SEPA-SE             | Pooling     | Yes                     |
| 19017          | Gogar Burn at Turnhouse    | SEPA-SE             | Pooling     | Yes                     |
| 83002          | Garnock at Dalry           | SEPA-SW             | Pooling     | Yes                     |
| 83010          | Irvine at Newmilns         | SEPA-SW             | Pooling     | Yes                     |

## 2.3 Closure of Gauging Stations

One station has been closed in version 12, listed in Table 3. Previously recorded flow data for these stations are still contained in the dataset and shown on the NRFA website, but there will be no further updates in future.

**Table 3:** Gauging stations closed in version 12.

| Station Number | Station Name            | Measuring Authority | NRFA daily flow station | Comment   |
|----------------|-------------------------|---------------------|-------------------------|---|
| 69006          | Bollin at Dunham Massey | EA-GMMC             | Yes                     | Station replaced by 69045 Bollin at Bollington Mill |

## 2.4 Changes to Station Numbers

No station numbers have changed in version 12.

## 2.5 Changes to FEH Indicative Suitabilities

Indicative suitabilities have changed at two stations in Scotland, one station in Northern Ireland, two stations in Wales and twelve stations in England, shown listed in Table 4.

**Table 4:** Stations with changes to indicative suitability in version 12.

| Station Number | Station Name                   | Measuring Authority | V11 Suitability | V12 Suitability | Upgrade/Downgrade |
|----------------|--------------------------------|---------------------|-----------------|-----------------|-------------------|
| 4005           | Meig at Glenmeanie             | SEPA-NW             | QMED            | Pooling         | Upgrade           |
| 25001          | Tees at Darlington Broken Scar | EA-NE               | Pooling         | QMED            | Downgrade         |
| 26009          | West Beck at Snakeholme Lock   | EA-Y                | QMED            | Pooling         | Upgrade           |
| 28012          | Trent at Yoxall                | EA-WM               | Neither         | QMED            | Upgrade           |
| 28048          | Amber at Wingfield Park        | EA-EM               | Neither         | QMED            | Upgrade           |
| 28115          | Maun at Mansfield the Dykes    | EA-EM               | Neither         | QMED            | Upgrade           |
| 37019          | Beam at Bretons Farm           | EA-HNL              | Neither         | QMED            | Upgrade           |
| 43004          | Bourne at Laverstock           | EA-WX               | Pooling         | QMED            | Downgrade         |
| 47010          | Tamar at Crowford Bridge       | EA-DC               | Neither         | QMED            | Upgrade           |
| 47015          | Tavy at Ludbrook               | EA-DC               | Neither         | QMED            | Upgrade           |
| 48010          | Seaton at Trebrownbridge       | EA-DC               | Neither         | QMED            | Upgrade           |
| 62003          | Teifi at Pont Llanio           | NRW                 | Neither         | QMED            | Upgrade           |
| 65001          | Glaslyn at Beddgelert          | NRW                 | Neither         | QMED            | Upgrade           |
| 69003          | Irk at Scotland Weir           | EA-GMMC             | Pooling         | QMED            | Downgrade         |
| 75017          | Ellen at Bullgill              | EA-CL               | QMED            | Pooling         | Upgrade           |
| 79002          | Nith at Friars Carse           | SEPA-SW             | Pooling         | QMED            | Downgrade         |
| 201002         | Fairywater at Dudgeon Bridge   | DfIR                | QMED            | Neither         | Downgrade         |

## 2.6 Component Stations

At several gauging stations, flows are derived from measurements taken at more than one location (for example low flows may be measured at a weir and high flows measured at a gauged section a short distance up/downstream). There are several such stations around the UK that the NRFA and/or Measuring Authority treat as a combined station.

No changes have been made to these time series since v4.1.

## 2.7 Stations Where No POT Data are Presented

No POT data are presented on the NRFA website or given in the dataset for stations listed in ANNEX 1 . Two stations were added to the list in version 12, marked with a \* in ANNEX 1 .

Stations are usually listed as ‘POT excluded’ because the gauged catchment response does not lend itself to POT analysis. Such catchments are usually, but not exclusively, those dominated by baseflow and are therefore concentrated on the large chalk aquifers of southern and eastern England.

## 2.8 Trends in AMAX Timeseries

For the first time, the NRFA are including trend information alongside the data and within the WINFAP files. Identification and interpretation of trends in observed time series are a necessary foundation for the development of appropriate water policy and management responses to climate-driven change. There is more information about the trend analysis methodology on [the NRFA Website](#).

**NOTE:** The current WINFAP software (version 5.0) will not be able to read the trend information until the newest version of WINFAP (version 5.1) is released in late-September 2023.

The trend analysis has been undertaken on the Version 12 data following the [Hannaford et al, 2021](#) methodology.

Mann-Kendall scores and significance of trends are presented in the WINFAP files as an **indication** of whether a trend is present (or not) in the AMAX timeseries.

Practitioners should **not** change their process because of this alone but instead should consult any guidance issued by the Measuring Authority for the region they are working in:

- England – Environment Agency: Guidance around non-stationary analysis is provided in the Flood Estimation Guidelines (LIT 11832), latest version published 23/12/2022. This can be requested from the Environment Agency customer contact centre [enquiries@environment-agency.gov.uk](mailto:enquiries@environment-agency.gov.uk). The Environment Agency National Flood Hydrology team will be releasing further guidance on the use of trend information in WINFAP 5.1.
- Wales – Natural Resources Wales
- Scotland – Scottish Environment Protection Agency
- Northern Ireland – Department for Infrastructure – Rivers



### 3 ANNUAL UPDATE

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As part of the stewardship arrangements for the national Peak Flows Dataset by UKCEH through the NRFA, a programme of annual updates has been implemented. It is intended that all currently operating NRFA Peak Flow stations are updated each year with the addition of one water year of data.

#### 3.1 Addition of water year 2021/2022

The version 12 files contain AMAX and POT time-series data updated to 30<sup>th</sup> September 2022 for all currently operational peak flow gauging stations in England, Scotland, Wales, and Northern Ireland.

#### 3.2 New AMAX 1 records

New AMAX 1 records were set at 7 stations in water year 2021/2022, listed in Table 5 with the percentage of the previous AMAX 1.

**Table 5:** New AMAX 1 records set in water year 2021/2022.

| Station Number | Station Name                         | Measuring Authority | % of previous AMAX 1 |
|----------------|--------------------------------------|---------------------|----------------------|
| 27065          | Holme at Huddersfield Queens Mill    | EA-NE               | 129                  |
| 33046          | Thet at Redbridge                    | EA-EA               | 103                  |
| 44006          | Sydling Water at Sydling St Nicholas | EA-WX               | 113                  |
| 54005          | Severn at Montford                   | EA-WM               | 103                  |
| 54025          | Dulas at Rhos-y-pentref              | NRW                 | 134                  |
| 54028          | Vyrnwy at Llanymynech                | NRW                 | 124                  |
| 54080          | Severn at Dolwen                     | NRW                 | 118                  |

## 4 PERIOD OF RECORD REVIEW

A programme of period of record reviews is undertaken as part of the stewardship arrangements for the national Peak Flows Dataset by UKCEH. It is intended that a subset of the NRFA Peak Flow stations are subject to a Period of Record Review each year and released in the next scheduled release of files for use in WINFAP.

The Period of Record Review is extensive and covers a full period of record review of:

- Flow and stage data (including extension of recent and where applicable, early records)
- Gaugings and ratings
- Missing data periods
- FEH Suitability
- Metadata (station descriptions, station type, datum history, POT threshold, bankfull stage)
- Unrepresentative data periods and rejected data.

This section lists the stations and time periods included in the Period of Record Review published in version 12. Major changes to the use of the data – POT thresholds, unrepresentative periods and rejected data – are detailed in Section 5.

### 4.1 Stations Included

The Period of Record Review covered 19 stations in Scotland, 57 stations in England, and 13 stations in Northern Ireland, listed in Table 6. At 14 existing peak flow stations in Scotland, the period of record has been extended by 15 water years to end with water year 2021/2022.

The Period of Record Review process for version 12 also involved the following activities:

- In Wales, a review of metadata, gaugings and ratings for 27 peak flow stations, comprising loading of period of record gaugings, sense checks of datum histories, historical continuity of data, gaugings and rating histories, and review of AMAX rejection, station descriptions and FEH suitability categories and comments. A full list of Welsh stations that have been through this review and when is available in ANNEX 2 6.2ANNEX 2 .
- For England, a review of FEH Neither sites resulting in either an upgrade from FEH Neither to Suitable for QMED, or if no upgrade was viable, the removal of the site from the NRFA Peak Flow Dataset.

**Table 6** Stations included in the period of record review in version 12. New stations to the dataset are shown with a \*.

| Station Number | Station Name                 | Measuring Authority | Start date | End date  |
|----------------|------------------------------|---------------------|------------|-----------|
| 2001           | Helmsdale at Kilphedir       | SEPA-NW             | 1974/1975  | 2021/2022 |
| 4005           | Meig at Glenmeanie           | SEPA-NW             | 1986/1987  | 2021/2022 |
| 8011           | Livet at Minmore             | SEPA-NW             | 1980/1981  | 2021/2022 |
| 10003          | Ythan at Ellon               | SEPA-NE             | 1983/1984  | 2021/2022 |
| 12003          | Dee at Polhollick            | SEPA-NE             | 1975/1976  | 2021/2022 |
| 12005          | Muick at Invermuick          | SEPA-NE             | 1990/1991  | 2021/2022 |
| 15007          | Tay at Pitnacree             | SEPA-NE             | 1991/1992  | 2021/2022 |
| 17003*         | Bonny Water at Bonnybridge   | SEPA-SE             | 1992/1993  | 2021/2022 |
| 19017*         | Gogar Burn at Turnhouse      | SEPA-SE             | 1992/1993  | 2021/2022 |
| 21020          | Yarrow Water at Gordon Arms  | SEPA-SE             | 1966/1967  | 2021/2022 |
| 21024          | Jed Water at Jedburgh        | SEPA-SE             | 1971/1972  | 2021/2022 |
| 23005          | North Tyne at Tarsset        | EA-NE               | 1963/1964  | 1986/1987 |
| 23010          | Tarsset Barn at Greenhaugh   | EA-NE               | 1969/1970  | 1979/1980 |
| 23013          | West Allen at Hindley Wrae   | EA-NE               | 1970/1971  | 1980/1981 |
| 23015          | North Tyne at Barrasford     | EA-NE               | 1941/1942  | 1958/1959 |
| 26009          | West Beck at Snakeholme Lock | EA-Y                | 1988/1989  | 2021/2022 |

| Station Number | Station Name                             | Measuring Authority | Start date | End date  |
|----------------|--|---------------------|------------|-----------|
| 26010          | Driffield Canal at Snakeholme Lock       | EA-Y                | 1988/1989  | 2021/2022 |
| 27014          | Rye at Little Habton                     | EA-Y                | 1957/1958  | 1973/1974 |
| 28002          | Blithe at Hamstall Ridware               | EA-WM               | 1959/1960  | 2021/2022 |
| 28081          | Tame at Bescot                           | EA-WM               | 1990/1991  | 2021/2022 |
| 30011          | Bain at Goulceby Bridge                  | EA-LN               | 1965/1966  | 2021/2022 |
| 33005          | Bedford Ouse at Thornborough Mill        | EA-EA               | 1976/1977  | 1990/1991 |
| 33009          | Bedford Ouse at Harrold Mill             | EA-EA               | 1976/1977  | 1996/1997 |
| 33030          | Clipstone Brook at Clipstone             | EA-EA               | 1999/2000  | 2021/2022 |
| 33031          | Broughton Brook at Broughton             | EA-EA               | 1970/1971  | 2021/2022 |
| 33048          | Larling Brook at Stonebridge             | EA-EA               | 1980/1981  | 2000/2001 |
| 34001          | Yare at Colney                           | EA-EA               | 1979/1980  | 2021/2022 |
| 37010          | Blackwater at Appleford Bridge           | EA-EA               | 1962/1963  | 2021/2022 |
| 37011          | Chelmer at Churchend                     | EA-EA               | 1963/1964  | 2021/2022 |
| 37012          | Colne at Poolstreet                      | EA-EA               | 1964/1965  | 2021/2022 |
| 39022          | Loddon at Sheepbridge                    | EA-T                | 1986/1987  | 2021/2022 |
| 39027          | Pang at Pangbourne                       | EA-T                | 1968/1969  | 2021/2022 |
| 39037          | Kennet at Marlborough                    | EA-T                | 1971/1972  | 2021/2022 |
| 39086          | Gatwick Stream at Gatwick Link           | EA-KSL              | 1974/1975  | 2021/2022 |
| 40008          | Great Stour at Wye                       | EA-KSL              | 1967/1968  | 2021/2022 |
| 40009          | Teise at Stonebridge                     | EA-KSL              | 1967/1968  | 2021/2022 |
| 40011          | Great Stour at Horton                    | EA-KSL              | 1967/1968  | 2021/2022 |
| 41012          | Adur E Branch at Sakeham                 | EA-SSD              | 1981/1982  | 2021/2022 |
| 41023          | Lavant at Graylingwell                   | EA-SSD              | 1981/1982  | 2021/2022 |
| 43008          | Wylfe at South Newton                    | EA-WX               | 1966/1967  | 2021/2022 |
| 44004          | Frome at Dorchester Total                | EA-WX               | 1991/1992  | 2021/2022 |
| 44013          | Piddle at Little Puddle                  | EA-WX               | 1991/1992  | 2021/2022 |
| 45003          | Culm at Woodmill                         | EA-DC               | 1962/1963  | 2021/2022 |
| 46005          | East Dart at Bellever                    | EA-DC               | 1963/1964  | 2021/2022 |
| 48004          | Warleggan at Trengoffe                   | EA-DC               | 1969/1970  | 2021/2022 |
| 48010          | Seaton at Trebrowbridge                  | EA-DC               | 1971/1972  | 2021/2022 |
| 49004          | Gannel at Gwills                         | EA-DC               | 1969/1970  | 2021/2022 |
| 50007          | Taw at Taw Bridge                        | EA-DC               | 1973/1974  | 2021/2022 |
| 52014          | Tone at Greenham                         | EA-WX               | 1966/1967  | 2021/2022 |
| 53006          | Frome (Bristol) at Frenchay              | EA-WX               | 1979/1980  | 2021/2022 |
| 53008          | Avon at Great Somerford                  | EA-WX               | 1963/1964  | 2021/2022 |
| 53026          | Frome (Bristol) at Frampton Cotterell    | EA-WX               | 1977/1978  | 2021/2022 |
| 54026          | Chelt at Slate Mill                      | EA-WM               | 1976/1977  | 2009/2010 |
| 54102          | Avon at Lilbourne                        | EA-WM               | 1998/1999  | 2021/2022 |
| 54906          | Stour (Worcs) at Kidderminster Gilt Edge | EA-WM               | 1976/1977  | 1992/1993 |
| 55014          | Lugg at Byton                            | EA-WM               | 1980/1981  | 2021/2022 |
| 55018          | Frome at Yarkhill                        | EA-WM               | 1984/1985  | 2021/2022 |
| 68006          | Dane at Hulme Walfield                   | EA-GMMC             | 1975/1976  | 1985/1986 |
| 68007          | Wincham Brook at Lostock Gralam          | EA-GMMC             | 1975/1976  | 2017/2018 |
| 69003          | Irk at Scotland Weir                     | EA-GMMC             | 1973/1974  | 2000/2001 |
| 69006          | Bollin at Dunham Massey                  | EA-GMMC             | 1976/1977  | 2001/2002 |
| 72817          | New Mill Brook at Hollowforth Hall       | EA-CL               | 1983/1984  | 2021/2022 |

| Station Number | Station Name                      | Measuring Authority | Start date | End date  |
|----------------|-----------------------------------|---------------------|------------|-----------|
| 73015          | Keer at High Keer Weir            | EA-CL               | 1975/1976  | 2021/2022 |
| 74002          | Irt at Galesyke                   | EA-CL               | 1975/1976  | 2021/2022 |
| 74005          | Ehen at Braystones                | EA-CL               | 1975/1976  | 2021/2022 |
| 75003          | Derwent at Ouse Bridge            | EA-CL               | 1975/1976  | 2021/2022 |
| 75017          | Ellen at Bullgill                 | EA-CL               | 1975/1976  | 2021/2022 |
| 76005          | Eden at Temple Sowerby            | EA-CL               | 1965/1966  | 2021/2022 |
| 82003          | Stinchar at Balnowlart            | SEPA-SW             | 1979/1980  | 2021/2022 |
| 83002*         | Garnock at Dalry                  | SEPA-SW             | 2016/2017  | 2021/2022 |
| 83006          | Ayr at Mainholm                   | SEPA-SW             | 1975/1976  | 2021/2022 |
| 83010*         | Irvine at Newmilns                | SEPA-SW             | 1976/1977  | 2021/2022 |
| 84005          | Clyde at Blairston                | SEPA-SW             | 2006/2007  | 2021/2022 |
| 84018          | Clyde at Tulliford Mill           | SEPA-SW             | 1978/1979  | 2021/2022 |
| 84019          | North Calder Water at Calderpark  | SEPA-SW             | 1978/1979  | 2021/2022 |
| 96003          | Strathy at Strathy Bridge         | SEPA-NW             | 1985/1986  | 2021/2022 |
| 201002         | Fairywater at Dudgeon Bridge      | DfIR                | 1971/1972  | 2021/2022 |
| 201005         | Camowen at Camowen Terrace        | DfIR                | 1971/1972  | 2021/2022 |
| 201008         | Derg at Castlederg                | DfIR                | 1975/1976  | 2021/2022 |
| 201009         | Owenkillew at Crosh               | DfIR                | 1979/1980  | 2021/2022 |
| 201010         | Mourne at Drumnabuoy House        | DfIR                | 1982/1983  | 2021/2022 |
| 202002         | Faughan at Drumahoe               | DfIR                | 1976/1977  | 2021/2022 |
| 203012         | Ballinderry at Ballinderry Bridge | DfIR                | 1969/1970  | 2021/2022 |
| 203022         | Blackwater at Derrymeen Bridge    | DfIR                | 1979/1980  | 2021/2022 |
| 203025         | Callan at Martin's Bridge         | DfIR                | 1971/1972  | 2021/2022 |
| 203028         | Agivey at Whitehill               | DfIR                | 1972/1973  | 2021/2022 |
| 203033         | Upper Bann at Bannfield           | DfIR                | 1974/1975  | 2021/2022 |
| 203042         | Crumlin at Cidercourt Bridge      | DfIR                | 1980/1981  | 2021/2022 |
| 203049         | Clady at Clady Bridge             | DfIR                | 1981/1982  | 2021/2022 |

## 5 MODIFICATIONS TO EXISTING TIME SERIES

### 5.1 POT Independence

For stations in England operated by the Environment Agency and in Wales operated by Natural Resources Wales, the rules for independence between POT events have been clarified such that the minimum discharge in the trough between the two peaks must be less than two-thirds of the discharge of **both peaks** (FEH guidelines states the first peak, but this requires subsequent manual re-processing to remove spurious peaks). Previous Environment Agency data updates by the NRFA and under the HiFlows-UK initiative may also have utilised the 'both peaks rule'.

These rules apply at all Environment Agency and Natural Resources Wales operated stations to POT events for water years 2014/2015 onwards. Additionally, for the stations listed in ANNEX 3, due to changes to stage-discharge relationships or other re-processing, the new independence rules apply from the date shown to the end of the period of record. Users should therefore be aware that at these stations the independence criteria used to generate the POT series updates may therefore vary throughout the flow record.

No changes have been made to the independence extraction criteria for POT data in Scotland or Northern Ireland.

### 5.2 POT Thresholds

The POT Threshold has changed at one station, shown in Table 7.

**Table 7:** Stations with changes to POT Thresholds in version 12.

| Station Number | Station Name          | Measuring Authority | V11 POT Threshold | V12 POT Threshold |
|----------------|-----------------------|---------------------|-------------------|-------------------|
| 74006          | Calder at Calder Hall | EA-CL               | 24.35             | 31.00             |

### 5.3 Minor Changes to AMAX and POT Records

Major changes to time series can be made through the period of record review (see Section 4) or through rating changes submitted as part of the Annual Update process (see Section 5.4).

Other minor changes to individual events can be made outside of these processes. Three stations had edits to the historical time series in version 12, listed in Table 8.

**Table 8:** Stations with minor changes to time series in version 12.

| Station Number | Station Name                    | Measuring Authority | Details of change   |
|----------------|---------------------------------|---------------------|---|
| 36010          | Bumpstead Brook at Broad Green  | EA-EA               | Reduced WY2001/2002 AMAX to 19.3 cumecs and WY2006/2007 AMAX to 18 cumecs following recommendation from EA Non-Stationarity Project.        |
| 37006          | Can at Beach's Mill             | EA-EA               | Addition of five AMAX in WY1980/1981, WY1990/1991, WY1995/1996, WY1996/1997 and WY2005/2006 which were previously missing from the dataset. |
| 69025          | Irwell at Manchester Racecourse | EA-GMMC             | Reduced WY1945/1946 AMAX to 500 cumecs following recommendation from EA Non-Stationarity Project.   |

## 5.4 Changes to Stage-Discharge Ratings and Reprocessed Data

Stage-discharge ratings have changed at an additional 24 stations as part of the routine Annual Update of the dataset. The period of re-processed flow data is listed in Table 9, all stations have been re-processed to the end of the record (water year 2021/2022). For stations included in the Period of Record Review (see Table 6), ratings have been reviewed and data re-processed as required.

**Table 9:** Stations with rating changes and re-processed data in version 12.

| Station Number | Station Name                   | Measuring Authority | Start date of re-processed data |
|----------------|--------------------------------|---------------------|---------------------------------|
| 7002           | Findhorn at Forres             | SEPA-NW             | 06/06/2020 07:45                |
| 7003           | Lossie at Sheriffmills         | SEPA-NW             | 07/04/2019 05:45                |
| 7010           | Muckle Burn at Brodie          | SEPA-NW             | 23/02/2022 20:15                |
| 7011           | Black Burn at Pluscarden Abbey | SEPA-NW             | 07/06/2017 08:00                |
| 15006          | Tay at Ballathie               | SEPA-NE             | 05/01/2016 12:00                |
| 28018          | Dove at Marston on Dove        | EA-WM               | 08/12/2000 21:45                |
| 48005          | Kenwyn at Truro                | EA-DC               | 29/07/1969 04:45                |
| 54012          | Tern at Walcot                 | EA-WM               | 23/07/1994 09:00                |
| 54025          | Dulas at Rhos-y-Pentref        | NRW                 | 21/06/2005 09:00                |
| 55007          | Wye at Erwood                  | NRW                 | 01/01/1952 00:00                |
| 55010          | Wye at Pant Mawr               | NRW                 | 01/01/1973 00:00                |
| 55013          | Arrow at Titley Mill           | EA-WM               | 24/02/1997 23:00                |
| 56019          | Ebbw at Aberbeeg               | NRW                 | 01/10/2012 00:00                |
| 57014          | Rhymney at Bargoed             | NRW                 | 22/03/2001 00:00                |
| 58005          | Ogmore at Brynmenyn            | NRW                 | 01/10/1969 09:00                |
| 58007          | Llynfi at Coytrahen            | NRW                 | 01/10/1970 00:00                |
| 60005          | Bran at Llandovery             | NRW                 | 30/09/2010 09:00                |
| 60007          | Tywi at Dolau Hirion           | NRW                 | 25/04/1968 09:00                |
| 60012          | Twrch at Ddol Las              | NRW                 | 01/10/1970 00:00                |
| 61003          | Gwaun at Cilrhedyn Bridge      | NRW                 | 07/07/2007 09:00                |
| 64002          | Dysynni at Pont-y-Garth        | NRW                 | 03/03/1988 09:00                |
| 65001          | Glaslyn at Beddgelert          | NRW                 | 01/12/1963 09:00                |
| 90003          | Nevis at Claggan               | SEPA-NW             | 28/01/2018 23:45                |
| 106003         | Abhainn Roag at Mill Croft     | SEPA-NW             | 15/12/2018 17:00                |

## 5.5 Unrepresentative Data Periods

Some periods of data are unsuitable for use in WINFAP because they are unrepresentative of the hydrological behaviour of the catchment. These are shown on the NRFA website by pink shading on the AMAX and POT graphs. The unrepresentative periods occur in two main situations:

1. Where there is a clear change in the catchment during the period of record. The most common example is where a large reservoir has been built and therefore caused a change in the FARL (Flood Attenuation by Reservoirs and Lakes) value.
2. Where data quality has changed significantly during the period of record, the indicative suitability has been based on the better data, providing the length of record is reasonable. In these cases, the years of poorer quality have been rejected.

New unrepresentative periods have been added at 14 stations (Table 10), removed at 4 stations (Table 11) and edited at 2 stations (Table 12). The end dates for ongoing unrepresentative periods at a further 10 were extended to the end of water year 2021/2022.

**Table 10:** Unrepresentative periods added in version 12.

| Station Number | Station Name                      | Measuring Authority | Start Date | End Date   | Comments  |
|----------------|-----------------------------------|---------------------|------------|------------|---|
| 21020          | Yarrow Water at Gordon Arms       | SEPA-SE             | 30/12/2015 | 01/10/2022 | Extensive channel change during large flood on 30/12/2015 and subsequent upstream channel and bank stabilisation works. Thereafter level only with no check gaugings, with flows based on pre 2015 ratings and hence flagged suspect/unchecked.       |
| 21024          | Jed Water at Jedburgh             | SEPA-SE             | 27/01/2016 | 23/01/2018 | Low confidence whilst landslip debris acted as a control until washed away by the AMAX flood of 24/01/2018 after which return to better confidence, as debris assumed washed away prior to peak and river/control returned to the pre landslip state. |
| 23005          | North Tyne at Tarsset             | EA-NE               | 01/01/1981 | 09/07/1987 | Impoundment of Kielder reservoir upstream.  |
| 28002          | Blithe at Hamstall Ridware        | EA-WM               | 01/10/1952 | 01/10/2022 | Blithfield reservoir built in 1952. Post -reservoir data added to record in V12 however is marked as unrepresentative.  |
| 30005          | Witham at Saltersford Total       | EA-LN               | 01/10/1967 | 01/10/1973 | Data prior to 1973 didn't consider the high and low flow portions of the station.   |
| 33005          | Bedford Ouse at Thornborough Mill | EA-EA               | 01/10/1978 | 30/09/1991 | Level recording during this time didn't consider gate opening / closures.   |
| 39016          | Kennet at Theale                  | EA-T                | 01/10/2014 | 01/10/2019 | Since 2014 there have been issues with the channel rendering data unsuitable for flood estimation.  |
| 40009          | Teise at Stonebridge              | EA-KSL              | 01/08/1960 | 31/12/1975 | Data before construction of Bewl Water rejected for consistency with FARL   |
| 43004          | Bourne at Laverstock              | EA-WX               | 01/10/1964 | 01/10/1991 | Data prior to 1992 is uncertain due to unknown gate movements.  |
| 47015          | Tavy at Ludbrook                  | EA-DC               | 01/10/1981 | 01/10/2011 | Stilling well issues causing significant under-recording of peak river levels.  |
| 48010          | Seaton at Trebrowbridge           | EA-DC               | 01/10/1971 | 01/10/2006 | Stilling well issues causing significant under-recording of peak river levels.  |
| 56019          | Ebbw at Aberbeeg                  | NRW                 | 16/02/2020 | 01/10/2022 | Awaiting rating review as the current rating has a very low upper limit.  |
| 74002          | Irt at Galesyke                   | EA-CL               | 01/12/1968 | 01/10/1978 | Early peak flows inconsistent with daily means, and rejected pending review of rating history.  |
| 76005          | Eden at Temple Sowerby            | EA-CL               | 04/03/1966 | 31/12/1975 | Digitised flow data in the early record (1966-1975) are either  |

| Station Number | Station Name | Measuring Authority | Start Date | End Date | Comments  |
|----------------|--------------|---------------------|------------|----------|---|
|                |              |                     |            |          | missing or estimated, with significant editing to the stage record; chart data are retained, but peak flows rejected as consistency is uncertain. |

**Table 11:** Unrepresentative periods removed in version 12.

| Station Number | Station Name          | Measuring Authority | Start Date  | End Date    | Comments  |
|----------------|-----------------------|---------------------|-------------|-------------|---|
| <b>28007</b>   | Trent at Shardlow     | EA-EM               | 05-MAY-1983 | 01-JUL-1991 | Data held from December 1991, so unrepresentative periods no longer required. |
| <b>54028</b>   | Vyrnwy at Llanymynech | NRW                 | 01-OCT-2014 | 01-OCT-2021 | Removal of temporary rejected period following re-rating.                     |
| <b>57006</b>   | Rhondda at Trehafod   | NRW                 | 05-SEP-2019 | 01-OCT-2021 | Removal of temporary rejected period, although high uncertainty remains.      |
| <b>58012</b>   | Afan at Marcroft Weir | NRW                 | 01-OCT-1978 | 01-OCT-1979 | AMAX/POT magnitude validated.   |

**Table 12:** Unrepresentative periods edited in version 12.

| Station Number | Station Name           | Measuring Authority | Start Date  | End Date    | Comments                                     |
|----------------|------------------------|---------------------|-------------|-------------|--|
| <b>32010</b>   | Nene at Wansford       | EA-LN               | 01-OCT-1939 | 16-JUN-1964 | End date corrected (previously 17-JAN-1964). |
| <b>73015</b>   | Keer at High Keer Weir | EA-CL               | 01-OCT-1971 | 20-SEP-1990 | End date corrected (previously 01-OCT-1990). |

## 5.6 Rejected Data

AMAX and POT data that are unsuitable for use in flood estimation are marked as rejected in the dataset and not included in flood estimation calculations. These are shown by red bars (for AMAX) and red crosses (for POTs) on the AMAX and POT graphs respectively. All data falling within unrepresentative periods (see section 5.5 Unrepresentative Data Periods) are rejected.

In addition, where periods of missing data are likely to have included the true AMAX, any AMAX recorded during that water year is rejected. Where the true AMAX is recorded, the event is not rejected.

Rejected AMAX values have been added at 15 stations (Table 13) and removed at 3 stations (Table 14).

**Table 13:** AMAX data now classed as rejected in version 12.

| Station Number | Station Name                 | Measuring Authority | Rejected water year(s) |
|----------------|------------------------------|---------------------|------------------------|
| <b>33021</b>   | Rhee at Burnt Mill           | EA-EA               | 2017                   |
| <b>33048</b>   | Larling Brook at Stonebridge | EA-EA               | 1980, 1981             |
| <b>34001</b>   | Yare at Colney               | EA-EA               | 1967, 1975, 1978, 1981 |
| <b>36008</b>   | Stour at Westmill            | EA-EA               | 1967                   |



| Station Number | Station Name                       | Measuring Authority | Rejected water year(s) |
|----------------|------------------------------------|---------------------|------------------------|
| 40011          | Great Stour at Horton              | EA-KSL              | 1967, 1975             |
| 44013          | Piddle at Little Puddle            | EA-WX               | 1992                   |
| 46005          | East Dart at Bellever              | EA-DC               | 1963                   |
| 50007          | Taw at Taw Bridge                  | EA-DC               | 1987                   |
| 68006          | Dane at Hulme Walfield             | EA-GMMC             | 1963                   |
| 72817          | New Mill Brook at Hollowforth Hall | EA-CL               | 1983, 2010, 2011       |
| 73015          | Keer at High Keer Weir             | EA-CL               | 1989                   |
| 83006          | Ayr at Mainholm                    | SEPA-SW             | 1991                   |
| 84019          | North Calder Water at Calderpark   | SEPA-SW             | 1971                   |
| 201005         | Camowen at Camowen Terrace         | DfIR                | 1971                   |
| 203049         | Clady at Clady Bridge              | DfIR                | 1981                   |

**Table 14:** AMAX data no longer classed as rejected in version 12.

| Station Number | Station Name           | Measuring Authority | Water year re-instated |
|----------------|------------------------|---------------------|------------------------|
| 28081          | Tame at Bescot         | EA-WM               | 1991                   |
| 68006          | Dane at Hulme Walfield | EA-GMMC             | 1977                   |
| 56002          | Ebbw at Rhiwderin      | NRW                 | 1996                   |

## 5.7 Datum Changes

A short table is provided on the NRFA website for each station, which details the datum and control history over the period of record, with dates of applicability. The datum history has been updated at 39 stations listed in ANNEX 4 .

## 6 IMPACT OF DATA CHANGES

As part of the NRFA's quality control procedures, the new data submitted within each data release cycle are assessed in terms of the impact they make on key flood estimation parameters – QMED, 50-year and 100-year return period flows.

Substantial changes to these parameters can occur due to:

- Extension or shortening of flow records.
- Extreme high or low flows in one water year.
- Rating changes causing reprocessed flows.

Any stations with a >10% change (in either direction) of any of the key flood estimation parameters are listed below in Section 6.1 (Annual Update) and Section 6.2 (Period of Record Review), along with a comment explaining the change.

### 6.1 Impact of annual update

The addition of water year 2021/2022 has resulted in >10% changes in one or more flood estimation parameters at 18 stations, listed in Table 15.

**Table 15:** Changes in QMED, 50- and 100-year return periods resulting from the addition of water year 2021/2022. Increased >10% are shaded in blue, decreases <10% are shaded in red.

| Station Number | Station Name                                  | Measuring Authority | % change in: |       |        | Suitability | Comment   |
|----------------|---|---------------------|--------------|-------|--------|-------------|---|
|                |   |                     | QMED         | 50-yr | 100-yr |             |   |
| 9010           | Deveron at Huntly                             | SEPA-NW             | -19%         | -14%  | -12%   | Pooling     | Short record (13 years) and WY20/21 is the lowest AMAX on record).                              |
| 20003          | Tyne at Spilmersford                          | SEPA-SE             | -10%         | -9%   | -9%    | Pooling     | Flows in recent years have been at the lower end of the regime.                                 |
| 27065          | Holme at Huddersfield Queens Mill             | EA-Y                | 2%           | 14%   | 17%    | QMED        | AMAX1 registered in WY21/22 (and AMAX 2 in WY19/20).  |
| 28043          | Derwent at Chatsworth                         | EA-EM               | 1%           | 8%    | 10%    | Pooling     | AMAX1 and AMAX3 recorded in WY19/20 and WY21/22.  |
| 33046          | Thet at Redbridge                             | EA-EA               | 2%           | 9%    | 10%    | QMED        | AMAX1 and AMAX3 recorded in WY20/21 and WY21/22.  |
| 37031          | Crouch at Wickford                            | EA-EA               | 11%          | 9%    | 8%     | QMED        | AMAX1 recorded in WY20/21.  |
| 40035          | Old Mill Stream at Aylesford                  | EA-KSL              | -5%          | -11%  | -12%   | QMED        | Reduction in AMAX1 (WY18/19) and addition of low AMAX in WY21/22 and a short record (19 years). |
| 42003          | Lymington at Brockenhurst                     | EA-SSD              | -10%         | -9%   | -8%    | Pooling     | Flows in recent years have been at the lower end of the regime.                                 |
| 44008          | South Winterbourne at Winterbourne Steepleton | EA-WX               | 11%          | 4%    | 3%     | Pooling     | WY21/22 AMAX is 9th highest AMAX.   |

| Station Number | Station Name                             | Measuring Authority | % change in: |       |        | Suitability | Comment  |
|----------------|--|---------------------|--------------|-------|--------|-------------|--|
|                |  |                     | QMED         | 50-yr | 100-yr |             |  |
| 49005          | Bolingey Stream at Bolingey Cocks Bridge | EA-DC               | -11%         | 4%    | 8%     | Pooling     | Short record (11 years) and WY20/21 is the lowest AMAX on record). |
| 54025          | Dulas at Rhos-y-pentref                  | NRW                 | 0%           | 13%   | 16%    | Pooling     | AMAX1 recorded in WY21/22.   |
| 54028          | Vyrnwy at Llanymynech                    | NRW                 | 5%           | 27%   | 33%    | Pooling     | AMAX1 recorded in WY21/22.   |
| 54080          | Severn at Dolwen                         | NRW                 | 5%           | 22%   | 27%    | Pooling     | AMAX1 recorded in WY21/22.   |
| 60005          | Bran at Llandovery                       | NRW                 | -2%          | -27%  | -32%   | Neither     | New AMAX flattens out top of FFC.                                  |
| 65001          | Glaslyn at Beddgelert                    | NRW                 | 0%           | 22%   | 30%    | QMED        | AMAX1 recorded in WY19/20  |
| 74003          | Ehen at Bleach Green                     | EA-CL               | 0%           | 9%    | 11%    | QMED        | WY21/22 AMAX is AMAX2.   |
| 75004          | Cocker at Southwaite Bridge              | EA-CL               | 1%           | 8%    | 10%    | Pooling     | AMAX3 recorded in WY21/22.   |
| 95004          | Abhainn a'Chnocain at Elphin             | SEPA-NW             | 0%           | 9%    | 11%    | QMED        | WY18/19 AMAX increased following review.                           |

## 6.2 Impact of Period of Record Review

The V12 Period of Record Review has resulted in >10% changes in one or more flood estimation parameters at 13 stations, listed in Table 16.

**Table 16** Changes in QMED, 50- and 100-year return periods resulting from the version 12 Period of Record Review. Increased >10% are shaded in blue, decreases <10% are shaded in red.

| Station Number | Station Name       | Measuring Authority | % change in: |       |        | Suitability | Comment   |
|----------------|--------------------|---------------------|--------------|-------|--------|-------------|---|
|                |                    |                     | QMED         | 50-yr | 100-yr |             |   |
| 4005           | Meig at Glenmeanie | SEPA-NW             | -10%         | -24%  | -27%   | Pooling     | Re-rating meaning flows in the early period have reduced plus the addition of 14 years to the record. |
| 8011           | Livet at Minmore   | SEPA-NW             | 6%           | 32%   | 38%    | Pooling     | Addition of 22 years almost doubling the record.  |
| 10003          | Ythan at Ellon     | SEPA-NE             | 4%           | 61%   | 78%    | Pooling     | The addition of 15 years to the record.   |
| 12003          | Dee at Polhollick  | SEPA-NE             | 1%           | 37%   | 47%    | Pooling     | The addition of 16 years to the record.   |

| Station Number | Station Name                      | Measuring Authority | % change in: |       |        | Suitability | Comment  |
|----------------|-----------------------------------|---------------------|--------------|-------|--------|-------------|--|
|                |                                   |                     | QMED         | 50-yr | 100-yr |             |  |
| 12005          | Muick at Invermuick               | SEPA-NE             | 9%           | 41%   | 48%    | Pooling     | Addition of 15 years and one of these including a new AMAX1 in WY15/16.  |
| 21024          | Jed Water at Jedburgh             | SEPA-SE             | -3%          | -12%  | -14%   | Pooling     | The addition of 16 years to the record.  |
| 28081          | Tame at Bescot                    | EA-WM               | 8%           | 12%   | 14%    | QMED        | Increase in 2018 AMAX (now AMAX2).   |
| 33005          | Bedford Ouse at Thornborough Mill | EA-EA               | 8%           | 27%   | 30%    | Pooling     | The addition of 13 years to the record.  |
| 37012          | Colne at Poolstreet               | EA-EA               | -1%          | -11%  | -13%   | QMED        | Improvement in rating; it is now fully validated to 3m; hence flows are more accurate.                                       |
| 39037          | Kennet at Marlborough             | EA-T                | -20%         | -4%   | -4%    | QMED        | Many of the lower AMAX-only events were previously missing from the record.  |
| 44013          | Piddle at Little Puddle           | EA-WX               | -19%         | -7%   | -6%    | Pooling     | Relatively short record, WY21/22 AMAX is 7th lowest in record.   |
| 75017          | Ellen at Bullgill                 | EA-CL               | -11%         | 35%   | 51%    | Pooling     | Changes consistent with rating changes. AMAX1 increased (WY15/16)  |
| 96003          | Strathy at Strathy Bridge         | SEPA-NW             | -8%          | -26%  | -30%   | Pooling     | Improvement in rating; correction meaning the highest flows have been reduced. Also, the addition of 13 years to the record. |

## ANNEX 1 POT EXCLUDED STATIONS

No POT data are presented on the NRFA website or given in the dataset for stations listed in ANNEX 1. Two stations were added to the list in version 12, marked with a \*. For more information see section 2.7.

| Station Number | Station Name                        | Measuring Authority |
|----------------|-------------------------------------|---------------------|
| 23002          | Derwent at Eddys Bridge             | EA-NE               |
| 26003          | Foston Beck at Foston Mill          | EA-Y                |
| 26009          | West Beck at Snakeholme Lock        | EA-Y                |
| 26010          | Driffield Canal at Snakeholme Lock  | EA-Y                |
| 26013          | Driffield Trout Stream at Driffield | EA-Y                |
| 26014          | Water Forlornes at Driffield        | EA-Y                |
| 26016          | Gypsy Race at Kirby Grindalythe     | EA-Y                |
| 26017          | Ings Beck at South Newbald          | EA-Y                |
| 27073          | Brompton Beck at Snainton Ings      | EA-Y                |
| 28033          | Dove at Hollinsclough               | EA-WM               |
| 30005          | Witham at Saltersford Total         | EA-LN               |
| 30006          | Slea at Leasingham Mill             | EA-LN               |
| 30013          | Heighington Beck at Heighington     | EA-LN               |
| 31004          | Welland at Tallington Total         | EA-LN               |
| 33005          | Bedford Ouse at Thornborough Mill   | EA-EA               |
| 33007          | Nar at Marham                       | EA-EA               |
| 33012          | Kym at Meagre Farm                  | EA-EA               |
| 33032          | Heacham at Heacham                  | EA-EA               |
| 33049          | Stanford Water at Buckenham Tofts   | EA-EA               |
| 33052          | Swaffham Lode at Swaffham Bulbeck   | EA-EA               |
| 33054          | Babingley at Castle Rising          | EA-EA               |
| 34007          | Dove at Oakley Park                 | EA-EA               |
| 34008          | Ant at Honing Lock                  | EA-EA               |
| 34012          | Burn at Burnham Overy               | EA-EA               |
| 35003          | Alde at Farnham                     | EA-EA               |
| 35004          | Ore at Beversham                    | EA-EA               |
| 35010          | Gipping at Bramford                 | EA-EA               |
| 36002          | Glem at Glemsford                   | EA-EA               |
| 36003          | Box at Polstead                     | EA-EA               |
| 36004          | Chad Brook at Long Melford          | EA-EA               |
| 36005          | Brett at Hadleigh                   | EA-EA               |
| 36006          | Stour at Langham                    | EA-EA               |
| 36007          | Belchamp Brook at Bardfield Bridge  | EA-EA               |
| 36008          | Stour at Westmill                   | EA-EA               |
| 36009          | Brett at Cockfield                  | EA-EA               |
| 36010          | Bumpstead Brook at Broad Green      | EA-EA               |
| 36011          | Stour Brook at Sturmer              | EA-EA               |
| 36012          | Stour at Kedington                  | EA-EA               |
| 36015          | Stour at Lamarsh                    | EA-EA               |
| 37003          | Ter at Crabbs Bridge                | EA-EA               |
| 37005          | Colne at Lexden                     | EA-EA               |
| 37007          | Wid at Writtle                      | EA-EA               |
| 37008          | Chelmer at Springfield              | EA-EA               |

| Station Number | Station Name                                  | Measuring Authority |
|----------------|---|---------------------|
| 37009          | Brain at Guithavon Valley                     | EA-EA               |
| 37010          | Blackwater at Appleford Bridge                | EA-EA               |
| 37011*         | Chelmer at Churchend                          | EA-EA               |
| 37012          | Colne at Poolstreet                           | EA-EA               |
| 37013          | Sandon Brook at Sandon Bridge                 | EA-EA               |
| 37016          | Pant at Copford Hall                          | EA-EA               |
| 37017          | Blackwater at Stisted                         | EA-EA               |
| 37031          | Crouch at Wickford                            | EA-EA               |
| 37033          | Eastwood Brook at Eastwood                    | EA-EA               |
| 38011          | Mimram at Fulling Mill                        | EA-HNL              |
| 39010          | Colne at Denham                               | EA-HNL              |
| 39020          | Coln at Bibury                                | EA-T                |
| 39021          | Cherwell at Enslow Mill                       | EA-T                |
| 39027*         | Pang at Pangbourne                            | EA-T                |
| 39033          | Winterbourne Stream at Bagnor                 | EA-T                |
| 39034          | Evenlode at Cassington Mill                   | EA-T                |
| 39037          | Kenet at Marlborough                          | EA-T                |
| 39088          | Chess at Rickmansworth                        | EA-HNL              |
| 39089          | Gade at Bury Mill                             | EA-HNL              |
| 40033          | Dour at Crabble Mill                          | EA-KSL              |
| 41015          | Ems at Westbourne                             | EA-SSD              |
| 41023          | Lavant at Graylingwell                        | EA-SSD              |
| 42005          | Wallop Brook at Broughton                     | EA-SSD              |
| 42006          | Meon at Mislingford                           | EA-SSD              |
| 42007          | Alre at Drove Lane Alresford                  | EA-SSD              |
| 42008          | Cheriton Stream at Swards Bridge              | EA-SSD              |
| 42009          | Candover Stream at Borough Bridge             | EA-SSD              |
| 42010          | Itchen at Highbridge & Allbrook Total         | EA-SSD              |
| 42012          | Anton at Fullerton                            | EA-SSD              |
| 42017          | Hermitage Stream at Havant                    | EA-SSD              |
| 43003          | Avon at East Mills Total                      | EA-WX               |
| 43004          | Bourne at Laverstock                          | EA-WX               |
| 43005          | Avon at Amesbury                              | EA-WX               |
| 43008          | Wylfe at South Newton                         | EA-WX               |
| 43010          | Allen at Loverley Farm                        | EA-WX               |
| 43012          | Wylfe at Norton Bavant                        | EA-WX               |
| 43018          | Allen at Walford Mill                         | EA-WX               |
| 43028          | Chitterne Brook at Codford                    | EA-WX               |
| 43029          | Wylfe at Brixton Deverill                     | EA-WX               |
| 44002          | Piddle at Baggs Mill                          | EA-WX               |
| 44004          | Frome at Dorchester Total                     | EA-WX               |
| 44006          | Sydling Water at Sydling St Nicholas          | EA-WX               |
| 44008          | South Winterbourne at Winterbourne Steepleton | EA-WX               |
| 44009          | Wey at Broadwey                               | EA-WX               |
| 44013          | Piddle at Little Puddle                       | EA-WX               |
| 44014          | Piddle at Briantspuddle                       | EA-WX               |

| <b>Station Number</b> | <b>Station Name</b>               | <b>Measuring Authority</b> |
|-----------------------|-----------------------------------|----------------------------|
| <b>54027</b>          | Frome at Ebley Mill               | EA-WM                      |
| <b>55035</b>          | Iago at Iago flume                | CEHW                       |
| <b>68007</b>          | Wincham Brook at Lostock Gralam   | EA-GMMC                    |
| <b>68010</b>          | Fender at Ford Lane               | EA-GMMC                    |
| <b>71003</b>          | Croasdale Beck at Croasdale Flume | EA-CL                      |
| <b>84013</b>          | Clyde at Daldowie                 | SEPA-SW                    |
| <b>85001</b>          | Leven at Linnbrane                | SEPA-SW                    |
| <b>205034</b>         | Woodburn at Control               | DfIR                       |
| <b>206006</b>         | Annalong at Recorder              | BCDWC                      |

## ANNEX 2 NATURAL RESOURCES WALES – FULL METADATA REVIEW

For more information about the Natural Resources Wales full metadata review process see Section 4.1.

| Station Number | Station Name               | Measuring Authority | Released in |
|----------------|----------------------------|---------------------|-------------|
| 54014          | Severn at Abermule         | NRW                 | V11         |
| 54025          | Dulas at Rhos-y-pentref    | NRW                 | V11         |
| 54028          | Vyrnwy at Llanymynech      | NRW                 | V11         |
| 54080          | Severn at Dolwen           | NRW                 | V11         |
| 55004          | Irfon at Abernant          | NRW                 | V11         |
| 55005          | Wye at Rhayader            | NRW                 | V11         |
| 55007          | Wye at Erwood              | NRW                 | V11         |
| 55009          | Monnow at Kentchurch       | NRW                 | V11         |
| 55010          | Wye at Pant Mawr           | NRW                 | V11         |
| 55012          | Irfon at Cilmerly          | NRW                 | V11         |
| 55016          | Ithon at Disserth          | NRW                 | V11         |
| 55023          | Wye at Redbrook            | NRW                 | V11         |
| 55025          | Llynfi at Three Cocks      | NRW                 | V12         |
| 55026          | Wye at Ddol Farm           | NRW                 | V12         |
| 55029          | Monnow at Grosmont         | NRW                 | V12         |
| 55032          | Elan at Caban Dam          | NRW                 | V12         |
| 56001          | Usk at Chainbridge         | NRW                 | V12         |
| 56002          | Ebbw at Rhiwderin          | NRW                 | V12         |
| 56003          | Honddu at The Forge Brecon | NRW                 | V12         |
| 56004          | Usk at Llandetty           | NRW                 | V11         |
| 56006          | Usk at Trallong            | NRW                 | V12         |
| 56011          | Sirhowy at Wattsville      | NRW                 | V12         |
| 56012          | Grwyne at Millbrook        | NRW                 | V12         |
| 56013          | Yscir at Pont-Ar-Yscir     | NRW                 | V12         |
| 56019          | Ebbw at Aberbeeg           | NRW                 | V12         |
| 57004          | Cynon at Abercynon         | NRW                 | V12         |
| 57005          | Taff at Pontypridd         | NRW                 | V12         |
| 57006          | Rhondda at Trehafod        | NRW                 | V12         |
| 57007          | Taff at Fiddlers Elbow     | NRW                 | V12         |
| 57008          | Rhymney at Llanedeyrn      | NRW                 | V12         |
| 57009          | Ely at St Fagans           | NRW                 | V12         |
| 57010          | Ely at Lanelay             | NRW                 | V11         |
| 57014          | Rhymney at Bargoed         | NRW                 | V12         |
| 57015          | Taff at Merthyr Tydfil     | NRW                 | V12         |
| 57017          | Rhondda Fawr at Tynewydd   | NRW                 | V12         |
| 58001          | Ogmore at Bridgend         | NRW                 | V11         |
| 58002          | Neath at Resolven          | NRW                 | V11         |
| 58005          | Ogmore at Brynmenyn        | NRW                 | V11         |
| 58006          | Mellte at Pontneddfechan   | NRW                 | V11         |
| 58007          | Llynfi at Coytrahen        | NRW                 | V11         |
| 58008          | Dulais at Cilfrew          | NRW                 | V11         |
| 58009          | Ewenny at Keepers Lodge    | NRW                 | V11         |
| 58012          | Afan at Marcroft Weir      | NRW                 | V12         |
| 59001          | Tawe at Ynystanglws        | NRW                 | V12         |



| Station Number | Station Name            | Measuring Authority | Released in |
|----------------|-------------------------|---------------------|-------------|
| 59002          | Loughor at Tir-y-dail   | NRW                 | V11         |
| 60001          | Tywi at Ty Castell      | NRW                 | V12         |
| 60002          | Cothi at Felin Mynachdy | NRW                 | V12         |
| 60003          | Taf at Clog-y-Fran      | NRW                 | V12         |
| 60007          | Tywi at Dolau Hirion    | NRW                 | V11         |
| 64001          | Dyfi at Dyfi Bridge     | NRW                 | V11         |
| 64002          | Dysynni at Pont-y-Garth | NRW                 | V11         |
| 64006          | Leri at Dolybont        | NRW                 | V11         |
| 64011          | Cerist at Llaw'r Cae    | NRW                 | V11         |
| 65001          | Glaslyn at Beddgelert   | NRW                 | V11         |
| 65004          | Gwyrfaï at Bontnewydd   | NRW                 | V11         |
| 65005          | Erch at Pencaenewydd    | NRW                 | V11         |
| 66011          | Conwy at Cwmlanerch     | NRW                 | V11         |
| 67018          | Dee at New Inn          | NRW                 | V11         |

## ANNEX 3 POT INDEPENDENCE CHANGES

For more information about the POT independence changes see section 5.1.

| Station Number | Station Name                       | Measuring Authority | Start date of POT independence change | Released in  |
|----------------|------------------------------------|---------------------|---------------------------------------|--------------|
| 21032          | Glen at Kirknewton                 | EA-NE               | 04/01/1982                            | V11          |
| 21035          | Till at Heaton Mill                | EA-NE               | Full period of record                 | V7           |
| 22001          | Coquet at Morwick                  | EA-NE               | 04/01/1982                            | V8, V11      |
| 22003          | Usway Burn at Shillmoor            | EA-NE               | Full period of record                 | V7           |
| 22006          | Blyth at Hartford Bridge           | EA-NE               | 04/01/1982                            | V8           |
| 22007          | Wansbeck at Mitford                | EA-NE               | 04/01/1982                            | V9           |
| 22009          | Coquet at Rothbury                 | EA-NE               | 04/01/1982                            | V8           |
| 23001          | Tyne at Bywell                     | EA-NE               | 01/12/1992                            | V6           |
| 23001          | Tyne at Bywell                     | EA-NE               | 04/01/1982                            | V7           |
| 23002          | Derwent at Eddys Bridge            | EA-NE               | 28/04/1983                            | V9           |
| 23003          | North Tyne at Reaverhill           | EA-NE               | Full period of record                 | V11          |
| 23004          | South Tyne at Haydon Bridge        | EA-NE               | Full period of record                 | V7           |
| 23005          | North Tyne at Tarsset              | EA-NE               | 01/10/1971                            | V12          |
| 23006          | South Tyne at Featherstone         | EA-NE               | 21/11/1972                            | V10          |
| 23007          | Derwent at Rowlands Gill           | EA-NE               | 03/01/1982                            | V11          |
| 23008          | Rede at Rede Bridge                | EA-NE               | 04/01/1982                            | V7           |
| 23009          | South Tyne at Alston               | EA-NE               | 27/11/1992                            | V9, V10, V11 |
| 23011          | Kielder Burn at Kielder            | EA-NE               | 23/11/1981                            | V7           |
| 23017          | Team at Team Valley                | EA-NE               | Full period of record                 | V11          |
| 23018          | Ouse Burn at Woosington            | EA-NE               | 24/12/1983                            | V7           |
| 23033          | Rede at Otterburn                  | EA-NE               | Full period of record                 | V8           |
| 24001          | Wear at Sunderland Bridge          | EA-NE               | 05/01/1982                            | V9, V10      |
| 24003          | Wear at Stanhope                   | EA-NE               | 04/01/1982                            | V8, V9       |
| 24004          | Bedburn Beck at Bedburn            | EA-NE               | 04/02/1982                            | V7, V9       |
| 24008          | Wear at Witton Park                | EA-NE               | 04/01/1982                            | V9           |
| 24008          | Wear at Witton Park                | EA-NE               | 24/01/1975                            | V11          |
| 24009          | Wear at Chester le Street          | EA-NE               | 01/10/1981                            | V10          |
| 25001          | Tees at Darlington Broken Scar     | EA-NE               | 03/01/1982                            | V9           |
| 25004          | Skerne at Darlington South Park    | EA-NE               | 12/10/2012                            | V6           |
| 25004          | Skerne at Darlington South Park    | EA-NE               | 04/01/1982                            | V8           |
| 25005          | Leven at Leven Bridge              | EA-NE               | 15/03/1982                            | V9           |
| 25006          | Greta at Rutherford Bridge         | EA-NE               | 01/10/2008                            | V5           |
| 25006          | Greta at Rutherford Bridge         | EA-NE               | 04/01/1982                            | V8           |
| 25008          | Tees at Barnard Castle             | EA-NE               | 25/01/1990                            | V9           |
| 25009          | Tees at Low Moor                   | EA-NE               | 03/01/1982                            | V9           |
| 25011          | Langdon Beck at Langdon            | EA-NE               | 25/09/2001                            | V8           |
| 25012          | Harwood Beck at Harwood            | EA-NE               | 03/01/1982                            | V8           |
| 25018          | Tees at Middleton in Teesdale      | EA-NE               | 06/10/1982                            | V9           |
| 25019          | Leven at Easby                     | EA-NE               | 04/01/1982                            | V7           |
| 25020          | Skerne at Preston le Skerne        | EA-NE               | 04/01/1982                            | V11          |
| 25021          | Skerne at Bradbury                 | EA-NE               | 04/01/1982                            | V11          |
| 25029          | Leven at Foxton Bridge             | EA-NE               | Full period of record                 | V9           |
| 26009          | West Beck at Snakeholme Lock       | EA-Y                | Full period of record                 | V12          |
| 26010          | Driffield Canal at Snakeholme Lock | EA-Y                | Full period of record                 | V12          |

| Station Number | Station Name                      | Measuring Authority | Start date of POT independence change | Released in |
|----------------|-----------------------------------|---------------------|---------------------------------------|-------------|
| 26016          | Gypsy Race at Kirby Grindalythe   | EA-Y                | 01/10/2013                            | V7          |
| 26017          | Ings Beck at South Newbald        | EA-Y                | Full period of record                 | V11         |
| 27001          | Nidd at Hunsingore Weir           | EA-Y                | 18/12/1966                            | V9          |
| 27002          | Wharfe at Wetherby Flint Mill     | EA-Y                | 30/11/2009                            | V11         |
| 27003          | Aire at Beal Weir                 | EA-Y                | 14/09/1993                            | V5          |
| 27003          | Aire at Beal Weir                 | EA-Y                | Full period of record                 | V8          |
| 27006          | Don at Hadfields Weir             | EA-Y                | 15/07/1968                            | V7          |
| 27007          | Ure at Westwick Lock              | EA-Y                | 07/01/1971                            | V8          |
| 27008          | Swale at Leckby Grange            | EA-Y                | 03/11/1968                            | V7          |
| 27021          | Don at Doncaster                  | EA-Y                | 29/01/1978                            | V10         |
| 27022          | Don at Rotherham Weir             | EA-Y                | 09/11/2005                            | V7          |
| 27023          | Dearne at Barnsley Weir           | EA-Y                | 24/03/1965                            | V5, V10     |
| 27024          | Swale at Richmond                 | EA-Y                | 14/08/1966                            | V8          |
| 27025          | Rother at Woodhouse Mill          | EA-Y                | 15/10/1976                            | V10         |
| 27026          | Rother at Whittington             | EA-Y                | 12/12/1979                            | V10         |
| 27028          | Aire at Armley                    | EA-Y                | 28/12/1978                            | V6          |
| 27028          | Aire at Armley                    | EA-Y                | Full period of record                 | V7          |
| 27029          | Calder at Elland                  | EA-Y                | 19/10/1971                            | V8, V9      |
| 27030          | Dearne at Adwick                  | EA-Y                | 11/02/1977                            | V6, V10     |
| 27031          | Colne at Colne Bridge             | EA-Y                | 08/02/1966                            | V9, V10     |
| 27032          | Hebden Beck at Hebden             | EA-Y                | Full period of record                 | V11         |
| 27033          | Sea Cut at Scarborough            | EA-Y                | 22/12/1969                            | V8, V10     |
| 27034          | Ure at Kilgram Bridge             | EA-Y                | 14/08/1971                            | V8          |
| 27035          | Aire at Kildwick Bridge           | EA-Y                | Full period of record                 | V11         |
| 27040          | Doe Lea at Staveley               | EA-Y                | Full period of record                 | V9, V10     |
| 27041          | Derwent at Buttercrambe           | EA-Y                | Full period of record                 | V7          |
| 27043          | Wharfe at Addingham               | EA-Y                | Full period of record                 | V9          |
| 27049          | Rye at Ness                       | EA-Y                | Full period of record                 | V10         |
| 27050          | Esk at Sleights                   | EA-Y                | 03/05/1977                            | V9          |
| 27051          | Crimple at Burn Bridge            | EA-Y                | Full period of record                 | V9          |
| 27052          | Whitting at Sheepbridge           | EA-Y                | Full period of record                 | V9          |
| 27053          | Nidd at Birstwith                 | EA-Y                | Full period of record                 | V7          |
| 27055          | Rye at Broadway Foot              | EA-Y                | Full period of record                 | V7, V9      |
| 27059          | Laver at Ripon                    | EA-Y                | Full period of record                 | V7          |
| 27062          | Nidd at Skip Bridge               | EA-Y                | Full period of record                 | V9          |
| 27065          | Holme at Queens Mill              | EA-Y                | Full period of record                 | V7          |
| 27071          | Swale at Crakehill                | EA-Y                | Full period of record                 | V7, V9      |
| 27079          | Calder at Methley                 | EA-Y                | Full period of record                 | V11         |
| 27080          | Aire at Lemonroyd                 | EA-Y                | 20/12/1996                            | V6          |
| 27080          | Aire at Oulton Lemonroyd          | EA-Y                | Full period of record                 | V7          |
| 27081          | Oulton Beck at Oulton Farrer Lane | EA-Y                | Full period of record                 | V9          |
| 27083          | Foss at Huntington                | EA-Y                | 01/10/2013                            | V7          |
| 27083          | Foss at Huntington                | EA-Y                | Full period of record                 | V8          |
| 27084          | Eastburn Beck at Crosshills       | EA-Y                | Full period of record                 | V11         |
| 27086          | Skell at Alma Weir                | EA-Y                | 22/11/2012                            | V5          |
| 27086          | Skell at Alma Weir                | EA-Y                | Full period of record                 | V6, V7      |

| Station Number | Station Name                      | Measuring Authority | Start date of POT independence change | Released in |
|----------------|-----------------------------------|---------------------|---------------------------------------|-------------|
| 27087          | Derwent at Low Marishes           | EA-Y                | Full period of record                 | V11         |
| 27088          | Calder at Mytholmroyd             | EA-Y                | Full period of record                 | V6, V7      |
| 27089          | Wharfe at Tadcaster               | EA-Y                | Full period of record                 | V8          |
| 27090          | Swale at Catterick Bridge         | EA-Y                | Full period of record                 | V9          |
| 27092          | Esk at Briggswath                 | EA-Y                | Full period of record                 | V8, V9      |
| 27094          | Wiske at Romanby Viewly Bridge    | EA-Y                | Full period of record                 | V7          |
| 27095          | Pickering Beck at Pickering       | EA-Y                | Full period of record                 | V7          |
| 27096          | Wharfe at Netherside Hall         | EA-Y                | Full period of record                 | V7          |
| 27097          | Aire at Bingley                   | EA-Y                | Full period of record                 | V8          |
| 27098          | Calder at Dewsbury                | EA-Y                | Full period of record                 | V7, V8, V9  |
| 27099          | Derwent at Malton A64 Road Bridge | EA-Y                | Full period of record                 | V8          |
| 28002          | Blithe at Hamstall Ridware        | EA-WM               | 29/01/1960                            | V12         |
| 28003          | Tame at Water Orton               | EA-WM               | 01/11/1993                            | V7, V8      |
| 28007          | Trent at Shardlow                 | EA-EM               | Full period of record                 | V11         |
| 28008          | Dove at Rocester Weir             | EA-WM               | 25/11/2011                            | V5          |
| 28008          | Dove at Rocester Weir             | EA-WM               | 13/03/1988                            | V10         |
| 28009          | Trent at Colwick                  | EA-EM               | 24/01/1971                            | V9          |
| 28012          | Trent at Yoxall                   | EA-WM               | 01/10/2010                            | V5          |
| 28015          | Idle at Mattersey                 | EA-EM               | Full period of record                 | V9          |
| 28018          | Dove at Marston on Dove           | EA-WM               | 07/11/2000                            | V5          |
| 28018          | Dove at Marston on Dove           | EA-WM               | 28/11/1974                            | V8          |
| 28019          | Trent at Drakelow Park            | EA-WM               | 27/08/1996                            | V7          |
| 28024          | Wreake at Syston Mill             | EA-WM               | 30/11/2009                            | V5          |
| 28026          | Anker at Polesworth               | EA-WM               | Full period of record                 | V7          |
| 28033          | Dove at Hollinsclough             | EA-WM               | 05/12/1972                            | V5          |
| 28039          | Rae at Calthorpe Park             | EA-WM               | Period of record                      | V7, V8      |
| 28040          | Trent at Stoke-On-Trent           | EA-WM               | 01/10/2013                            | V7          |
| 28040          | Trent at Stoke-On-Trent           | EA-WM               | Full period of record                 | V8          |
| 28041          | Hamps at Waterhouses              | EA-WM               | 01/10/2000                            | V7          |
| 28041          | Hamps at Waterhouses              | EA-WM               | 18/02/2000                            | V8          |
| 28046          | Dove at Izaak Walton              | EA-EM               | 02/01/1988                            | V8          |
| 28047          | Oldcotes Dyke at Blyth            | EA-EM               | Full period of record                 | V7          |
| 28048          | Amber at Wingfield Park           | EA-EM               | Full period of record                 | V9          |
| 28049          | Ryton at Worksop                  | EA-EM               | Full period of record                 | V7          |
| 28052          | Sow at Great Bridgford            | EA-WM               | 01/10/2013                            | V7          |
| 28052          | Sow at Great Bridgford            | EA-WM               | Full period of record                 | V11         |
| 28053          | Penk at Penkridge                 | EA-WM               | 01/01/2012                            | V5,V11      |
| 28053          | Penk at Penkridge                 | EA-WM               | Full period of record                 | V7          |
| 28055          | Ecclesbourne at Duffield          | EA-EM               | Full period of record                 | V8          |
| 28056          | Rothley Brook at Rothley          | EA-EM               | Full period of record                 | V7          |
| 28058          | Henmore Brook at Ashbourne        | EA-WM               | 29/10/2000                            | V8          |
| 28058          | Henmore Brook at Ashbourne        | EA-WM               | Full period of record                 | V11         |
| 28060          | Dover Beck at Lowdham             | EA-EM               | Full period of record                 | V8          |
| 28061          | Churnet at Basford Bridge         | EA-WM               | 06/11/2000                            | V5          |
| 28061          | Churnet at Basford Bridge         | EA-WM               | Full period of record                 | V6, V11     |
| 28066          | Cole at Coleshill                 | EA-WM               | Full period of record                 | V7, V9, V11 |

| Station Number | Station Name                        | Measuring Authority | Start date of POT independence change | Released in |
|----------------|-------------------------------------|---------------------|---------------------------------------|-------------|
| 28067          | Derwent at Church Wilne             | EA-EM               | Full period of record                 | V11         |
| 28080          | Tame at Lea Marston Lakes           | EA-WM               | Full period of record                 | V7          |
| 28080          | Tame at Lea Marston Lakes           | EA-WM               | 01/01/2001                            | V8          |
| 28081          | Tame at Bescot                      | EA-WM               | Full period of record                 | V6,V8, V12  |
| 28083          | Trent at Darlaston                  | EA-WM               | Full period of record                 | V6, V8      |
| 28085          | Derwent at St. Mary's Bridge        | EA-EM               | Full period of record                 | V11         |
| 28091          | Ryton at Blyth                      | EA-EM               | Full period of record                 | V7          |
| 28095          | Tame at Hopwas Bridge               | EA-WM               | 01/01/1998                            | V5          |
| 28095          | Tame at Hopwas Bridge               | EA-WM               | Full period of record                 | V7          |
| 28115          | Maun at Mansfield the Dykes         | EA-EM               | Full period of record                 | V7, V8      |
| 29001          | Waithe Beck at Brigsley             | EA-LN               | 27/08/1986                            | V7          |
| 29002          | Great Eau at Claythorpe Mill        | EA-LN               | 14/12/1979                            | V7          |
| 29003          | Lud at Louth                        | EA-LN               | 14/12/1979                            | V8          |
| 29004          | Ancholme at Bishopbridge            | EA-LN               | 14/12/1979                            | V8          |
| 29009          | Ancholme at Toft Newton             | EA-LN               | 14/12/1979                            | V8          |
| 30001          | Witham at Claypole Mill             | EA-LN               | 11/12/1979                            | V7          |
| 30003          | Bain at Fulsby Lock                 | EA-LN               | 14/12/1979                            | V8          |
| 30004          | Lymn at Partney Mill                | EA-LN               | 15/12/1979                            | V7          |
| 30011          | Bain at Goulceby Bridge             | EA-LN               | 14/12/1979                            | V9, V12     |
| 30014          | Pointon Lode at Pointon             | EA-LN               | 21/11/2012                            | V6          |
| 30014          | Pointon Lode at Pointon             | EA-LN               | 14/12/1979                            | V8          |
| 31010          | Chater at Fosters Bridge            | EA-LN               | 27/04/1981                            | V9          |
| 31025          | Gwash South Arm at Manton           | EA-LN               | Full period of record                 | V7          |
| 32002          | Willow Brook at Fotheringhay        | EA-LN               | 30/12/1981                            | V7          |
| 32003          | Harpers Brook at Old Mill Bridge    | EA-LN               | 10/03/1981                            | V9          |
| 32004          | Ise Brook at Harrowden              | EA-LN               | Full period of record                 | V11         |
| 32008          | Nene/Kislingbury at Dodford         | EA-LN               | 10/12/1979                            | V9          |
| 32010          | Nene at Wansford                    | EA-LN               | 01/01/1998                            | V7          |
| 33005          | Bedford Ouse at Thornborough Mill   | EA-EA               | 01/10/1979                            | V12         |
| 33009          | Bedford Ouse at Harrold Mill        | EA-EA               | 01/10/1976                            | V12         |
| 33011          | Little Ouse at County Bridge Euston | EA-EA               | 21/12/1980                            | V10         |
| 33012          | Kym at Meagre Farm                  | EA-EA               | 01/10/2013                            | V7          |
| 33013          | Sapiston at Rectory Bridge          | EA-EA               | 04/01/1980                            | V10         |
| 33014          | Lark at Temple                      | EA-EA               | 09/02/1980                            | V7          |
| 33015          | Ouzel at Willen                     | EA-EA               | Full period of record                 | V9          |
| 33018          | Tove at Cappenham Bridge            | EA-EA               | 28/12/1979                            | V7, V10     |
| 33019          | Thet at Melford Bridge              | EA-EA               | 05/02/1979                            | V9          |
| 33021          | Rhee at Burnt Mill                  | EA-EA               | 11/12/1979                            | V7          |
| 33022          | Ivel at Blunham                     | EA-EA               | 14/12/1979                            | V10         |
| 33023          | Lea Brook at Beck Bridge            | EA-EA               | Full period of record                 | V9          |
| 33024          | Cam at Dernford                     | EA-EA               | 22/01/1985                            | V7          |
| 33027          | Rhee at Wimpole                     | EA-EA               | 28/12/1979                            | V10         |
| 33028          | Flit at Shefford                    | EA-EA               | 15/12/1979                            | V8          |
| 33029          | Stringside at Whitebridge           | EA-EA               | 26/11/2012                            | V6          |
| 33029          | Stringside at Whitebridge           | EA-EA               | 28/12/1979                            | V7, V8      |
| 33030          | Clipstone Brook at Clipstone        | EA-EA               | 01/10/2012                            | V5          |

| Station Number | Station Name                           | Measuring Authority | Start date of POT independence change | Released in |
|----------------|--|---------------------|---------------------------------------|-------------|
| 33030          | Clipstone Brook at Clipstone           | EA-EA               | 01/10/2002                            | V12         |
| 33031          | Broughton Brook at Broughton           | EA-EA               | 01/10/1986                            | V12         |
| 33034          | Little Ouse at Abbey Heath             | EA-EA               | 21/12/1980                            | V9          |
| 33037          | Bedford Ouse at Newport Pagnell Total  | EA-EA               | 29/12/1979                            | V8          |
| 33039          | Bedford Ouse at Roxton                 | EA-EA               | 17/12/1979                            | V7, V8      |
| 33044          | Thet at Bridgham                       | EA-EA               | 01/10/2013                            | V7          |
| 33045          | Wittle at Quidenham                    | EA-EA               | 14/12/1979                            | V7          |
| 33046          | Thet at Redbridge                      | EA-EA               | 15/01/1981                            | V10         |
| 33048          | Larling Brook at Stonebridge           | EA-EA               | 01/12/1979                            | V12         |
| 33050          | Snail at Fordham                       | EA-EA               | Full period of record                 | V10         |
| 33051          | Cam at Chesterford                     | EA-EA               | 29/12/1979                            | V7          |
| 33055          | Granta at Babraham                     | EA-EA               | 02/02/1979                            | V10         |
| 33057          | Ouzel at Leighton Buzzard              | EA-EA               | Full period of record                 | V8          |
| 33058          | Ouzel at Bletchley                     | EA-EA               | Full period of record                 | V9          |
| 33063          | Little Ouse at Knettishall             | EA-EA               | Full period of record                 | V9          |
| 34001          | Yare at Colney                         | EA-EA               | 01/10/1979                            | V12         |
| 34003          | Bure at Ingworth                       | EA-EA               | 03/02/1971                            | V7          |
| 34006          | Waveney at Needham Mill                | EA-EA               | 09/02/1980                            | V11         |
| 34012          | Burn at Burnham Overy                  | EA-EA               | 14/12/1979                            | V9          |
| 35008          | Gipping at Stowmarket                  | EA-EA               | 25/05/1981                            | V7          |
| 36012          | Stour at Kedington                     | EA-EA               | 10/04/1998                            | V11         |
| 37001          | Roding at Redbridge                    | EA-HNL              | Full period of record                 | V11         |
| 37010          | Blackwater at Appleford Bridge         | EA-EA               | Full period of record                 | V12         |
| 37011          | Chelmer at Churchend                   | EA-EA               | Full period of record                 | V12         |
| 37012          | Colne at Poolstreet                    | EA-EA               | 01/10/1979                            | V12         |
| 37014          | Roding at High Ongar                   | EA-HNL              | 21/10/2012                            | V6          |
| 37014          | Roding at High Ongar                   | EA-HNL              | 10/03/1981                            | V10         |
| 37020          | Chelmer at Felsted                     | EA-EA               | Full period of record                 | V10         |
| 38003          | Mimram at Panshanger Park              | EA-HNL              | 27/05/1982                            | V8          |
| 38004          | Rib at Wadesmill                       | EA-HNL              | Full period of record                 | V11         |
| 38007          | Canons Brook at Elizabeth Way          | EA-HNL              | 19/07/1987                            | V8          |
| 38011          | Mimram at Fulling Mill                 | EA-HNL              | Full period of record                 | V11         |
| 38018          | Upper Lee at Water Hall                | EA-HNL              | 07/04/1987                            | V8          |
| 38022          | Pymmes Brook at Edmonton Silver Street | EA-HNL              | 27/02/1987                            | V8          |
| 39001          | Thames at Kingston                     | EA-T                | 05/11/2012                            | V6          |
| 39003          | Wandle at South Wimbledon              | EA-KSL              | 09/10/1987                            | V8, V10     |
| 39007          | Blackwater at Swallowfield             | EA-T                | 01/10/2013                            | V7          |
| 39011          | Wey at Tilford                         | EA-T                | 31/01/1956                            | V11         |
| 39012          | Hogsmill at Kingston-upon-Thames       | EA-KSL              | Full period of record                 | V9          |
| 39014          | Ver at Hansteads                       | EA-HNL              | 16/03/1989                            | V8          |
| 39022          | Loddon at Sheepbridge                  | EA-T                | 01/10/1986                            | V12         |
| 39026          | Cherwell at Banbury                    | EA-T                | 01/01/1987                            | V9          |
| 39027          | Pang at Pangbourne                     | EA-T                | Full period of record                 | V12         |
| 39028          | Dun at Hungerford                      | EA-T                | 21/12/1989                            | V10         |
| 39029          | Tilling Bourne at Shalford             | EA-T                | 15/09/1968                            | V11         |

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| 39035          | Churn at Cerney Wick                        | EA-T                | 01/01/2013                            | V5          |
| 39036          | Law Brook at Albury                         | EA-T                | 07/10/1987                            | V9          |
| 39037          | Kennet at Marlborough                       | EA-T                | Full period of record                 | V12         |
| 39042          | Leach at Priory Mill Lechlade               | EA-T                | 16/12/1972                            | V11         |
| 39052          | The Cut at Binfield                         | EA-T                | Full period of record                 | V9          |
| 39056          | Ravensbourne at Catford Hill                | EA-KSL              | 04/06/1987                            | V8          |
| 39056          | Ravensbourne at Catford Hill                | EA-KSL              | 26/05/1985                            | V9          |
| 39081          | Ock at Abingdon                             | EA-T                | 16/12/1986                            | V9          |
| 39086          | Gatwick Stream at Gatwick Link              | EA-KSL              | 01/10/1986                            | V12         |
| 39104          | Mole at Esher                               | EA-KSL              | Full period of record                 | V11         |
| 39134          | Ravensbourne East at Bromley South          | EA-KSL              | Full period of record                 | V8          |
| 40004          | Rother at Udiam                             | EA-KSL              | 26/09/1968                            | V9          |
| 40005          | Beult at Stilebridge                        | EA-KSL              | 24/01/1970                            | V8          |
| 40007          | Medway at Chafford / Colliersland Bridge    | EA-KSL              | 01/10/2013                            | V7          |
| 40008          | Great Stour at Wye                          | EA-KSL              | 01/10/1968                            | V12         |
| 40009          | Teise at Stonebridge                        | EA-KSL              | 01/10/1968                            | V12         |
| 40010          | Eden at Penshurst / Vexour Bridge           | EA-KSL              | 01/10/2013                            | V7          |
| 40010          | Eden at Penshurst / Vexour Bridge           | EA-KSL              | 12/05/1968                            | V9          |
| 40011          | Great Stour at Horton                       | EA-KSL              | 01/10/2013                            | V7          |
| 40011          | Great Stour at Horton                       | EA-KSL              | 01/10/1968                            | V12         |
| 40012          | Darent at Hawley                            | EA-KSL              | 26/11/1992                            | V6, V8, V9  |
| 40013          | Darent at Otford                            | EA-KSL              | Full period of record                 | V8          |
| 40016          | Cray at Crayford                            | EA-KSL              | 01/10/2013                            | V7          |
| 40017          | Dudwell at Burwash                          | EA-KSL              | Full period of record                 | V8          |
| 40018          | Darent at Lullingstone                      | EA-KSL              | 30/03/2010                            | V6          |
| 40021          | Hexden Channel at Hopemill Bridge Sandhurst | EA-KSL              | Full period of record                 | V11         |
| 40035          | Old Mill Stream at Aylesford                | EA-KSL              | Full period of record                 | V11         |
| 40035          | Old Mill Stream at Aylesford                | EA-KSL              | Full period of record                 | V11         |
| 41005          | Ouse at Gold Bridge                         | EA-SSD              | 14/12/1981                            | V10         |
| 41011          | Rother at Iping Mill                        | EA-SSD              | 10/03/1982                            | V10         |
| 41012          | Adur E Branch at Sakeham                    | EA-SSD              | 06/08/1981                            | V12         |
| 41016          | Cuckmere at Cowbeeck                        | EA-SSD              | 05/01/1982                            | V8          |
| 41020          | Bevern Stream at Clappers Bridge            | EA-SSD              | 03/12/2006                            | V9          |
| 41022          | Lod at Halfway Bridge                       | EA-SSD              | 07/03/1991                            | V7          |
| 41023          | Lavant at Graylingwell                      | EA-SSD              | 20/01/1981                            | V12         |
| 42001          | Wallington at North Fareham                 | EA-SSD              | 14/10/1982                            | V7          |
| 42003          | Lymington at Brockenhurst                   | EA-SSD              | Full period of record                 | V7          |
| 42014          | Blackwater at Ower                          | EA-SSD              | Full period of record                 | V9          |
| 43006          | Nadder at Wilton                            | EA-WX               | 09/03/1991                            | V9          |
| 43007          | Stour at Throop                             | EA-WX               | 28/03/1987                            | V8          |
| 43008          | Wylfe at South Newton                       | EA-WX               | Full period of record                 | V12         |
| 43009          | Stour at Hamoon                             | EA-WX               | 06/01/1988                            | V8          |
| 43014          | East Avon at Upavon                         | EA-WX               | 04/04/1987                            | V9          |
| 43017          | West Avon at Upavon                         | EA-WX               | 05/04/1987                            | V9          |
| 43019          | Shreen Water at Colesbrook                  | EA-WX               | Full period of record                 | V7          |

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| 43028          | Chitterne Brook at Codford                    | EA-WX               | Full period of record                 | V9          |
| 43029          | Wylfe at Brixton Deverill                     | EA-WX               | Full period of record                 | V5          |
| 44001          | Frome at East Stoke Total                     | EA-WX               | Full period of record                 | V10         |
| 44004          | Frome at Dorchester Total                     | EA-WX               | 01/01/1992                            | V12         |
| 44008          | South Winterbourne at Winterbourne Steepleton | EA-WX               | Full period of record                 | V11         |
| 44009          | Wey at Broadwey                               | EA-WX               | Full period of record                 | V11         |
| 44011          | Asker at East Bridge Bridport                 | EA-WX               | 01/10/2013                            | V7          |
| 44011          | Asker at East Bridge Bridport                 | EA-WX               | Full period of record                 | V8, V10     |
| 44013          | Piddle at Little Puddle                       | EA-WX               | Full period of record                 | V12         |
| 44014          | Piddle at Briantspuddle                       | EA-WX               | Full period of record                 | V9, V11     |
| 44015          | Hooke at Hooke                                | EA-WX               | Full period of record                 | V7, V8      |
| 45001          | Exe at Thorverton                             | EA-DC               | 01/12/2003                            | V7          |
| 45001          | Exe at Thorverton                             | EA-DC               | Full period of record                 | V8          |
| 45002          | Exe at Stoodleigh                             | EA-DC               | Full period of record                 | V8          |
| 45003          | Culm at Woodmill                              | EA-DC               | Full period of record                 | V6, V12     |
| 45004          | Axe at Whitford                               | EA-DC               | Full period of record                 | V5, V8      |
| 45005          | Otter at Dotton                               | EA-DC               | Full period of record                 | V9          |
| 45007          | Exe at Trews Weir                             | EA-DC               | Full period of record                 | V7          |
| 45008          | Otter at Fenny Bridges                        | EA-DC               | Full period of record                 | V8          |
| 45009          | Exe at Pixton                                 | EA-DC               | Full period of record                 | V7          |
| 45012          | Creedy at Cowley                              | EA-DC               | Full period of record                 | V7          |
| 45816          | Haddeo at Upton                               | EA-DC               | Full period of record                 | V11         |
| 45817          | Unnamed Stream at Upton                       | EA-DC               | Full period of record                 | V11         |
| 45818          | Withiel Florey Stream at Bessom Bridge        | EA-DC               | Full period of record                 | V11         |
| 46003          | Dart at Austin's Bridge                       | EA-DC               | Full period of record                 | V9          |
| 46005          | East Dart at Bellever                         | EA-DC               | Full period of record                 | V12         |
| 46006          | Erme at Ermington                             | EA-DC               | Full period of record                 | V9, V11     |
| 46007          | West Dart at Dunnabridge                      | EA-DC               | Full period of record                 | V6, V8      |
| 46008          | Avon at Loddiswell                            | EA-DC               | Full period of record                 | V9          |
| 46013          | Bovey at Bovey Parke                          | EA-DC               | Full period of record                 | V7          |
| 46014          | Teign at Chudleigh                            | EA-DC               | Full period of record                 | V7          |
| 47001          | Tamar at Gunnislake                           | EA-DC               | Full period of record                 | V8          |
| 47004          | Lynher at Pillaton Mill                       | EA-DC               | 29/12/1966                            | V10         |
| 47005          | Ottery at Werrington Park                     | EA-DC               | 24/12/1978                            | V8          |
| 47006          | Lyd at Lifton Park                            | EA-DC               | 28/11/1975                            | V9          |
| 47007          | Yealm at Puslinch                             | EA-DC               | 21/01/1970                            | V7          |
| 47008          | Thrushel at Tinhay                            | EA-DC               | Full period of record                 | V10         |
| 47009          | Tiddy at Tideford                             | EA-DC               | 25/09/1976                            | V7          |
| 47010          | Tamar at Crowford Bridge                      | EA-DC               | Full period of record                 | V9          |
| 47011          | Plym at Carn Wood                             | EA-DC               | Full period of record                 | V9          |
| 47013          | Withey Brook at Bastreet                      | EA-DC               | Full period of record                 | V9          |
| 47014          | Walkham at Horrabridge                        | EA-DC               | Full period of record                 | V8          |
| 47015          | Tavy at Ludbrook                              | EA-DC               | 01/10/1994                            | V7          |
| 47020          | Inny at Bealsmill                             | EA-DC               | Full period of record                 | V7, V10     |
| 47021          | Kensey at Launceston Newport                  | EA-DC               | Full period of record                 | V10         |



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|----------------|--|---------------------|---------------------------------------|-------------|
| 47022          | Tory Brook at Newnham Park               | EA-DC               | Full period of record                 | V9, V11     |
| 47023          | Tamar at Tamarstone Bridge               | EA-DC               | Full period of record                 | V7          |
| 47024          | Tavy at Tavistock Abbey Bridge           | EA-DC               | Full period of record                 | V5, V8      |
| 47025          | Wolf at Germansweek                      | EA-DC               | Full period of record                 | V10         |
| 48001          | Fowey at Trekeivesteps                   | EA-DC               | Full period of record                 | V9          |
| 48003          | Fal at Tregony                           | EA-DC               | Full period of record                 | V8          |
| 48004          | Warleggan at Trengoffe                   | EA-DC               | Full period of record                 | V11, V12    |
| 48005          | Kenwyn at Truro                          | EA-DC               | Full period of record                 | V11, V12    |
| 48006          | Cober at Helston Country Bridge          | EA-DC               | 01/10/2012                            | V5          |
| 48007          | Kennal at Ponsanooth                     | EA-DC               | Full period of record                 | V10         |
| 48009          | St Neot at Craigshill Wood               | EA-DC               | Full period of record                 | V9          |
| 48010          | Seaton at Trebrowbridge                  | EA-DC               | Full period of record                 | V12         |
| 48011          | Fowey at Restormel                       | EA-DC               | Full period of record                 | V7, V9      |
| 48012          | Fal at Trenowth                          | EA-DC               | Full period of record                 | V9          |
| 49001          | Camel at Denby                           | EA-DC               | Full period of record                 | V7          |
| 49002          | Hayle at St Erth                         | EA-DC               | Full period of record                 | V7          |
| 49003          | De Lank at De Lank                       | EA-DC               | Full period of record                 | V11         |
| 49004          | Gannel at Gwills                         | EA-DC               | Full period of record                 | V12         |
| 49005          | Bolingey Stream at Bolingey Cocks Bridge | EA-DC               | Full period of record                 | V11         |
| 49006          | Camel at Camelford                       | EA-DC               | Full period of record                 | V7, V8      |
| 50001          | Taw at Umlerleigh                        | EA-DC               | Full period of record                 | V10         |
| 50005          | West Okement at Vellake                  | EA-DC               | 01/10/2012                            | V5          |
| 50007          | Taw at Taw Bridge                        | EA-DC               | Full period of record                 | V12         |
| 50008          | Lew at Gribbleford Bridge                | EA-DC               | Full period of record                 | V10         |
| 50009          | Lew at Norley Bridge                     | EA-DC               | Full period of record                 | V10         |
| 50010          | Torridge at Rockhay Bridge               | EA-DC               | 01/10/2012                            | V5          |
| 50011          | Okement at Jacobstowe                    | EA-DC               | Full period of record                 | V9          |
| 51001          | Doniford Stream at Swill Bridge          | EA-WX               | Full period of record                 | V9          |
| 51002          | Horner Water at West Luccombe            | EA-WX               | Full period of record                 | V7          |
| 51003          | Washford at Beggearn Huish               | EA-WX               | 01/11/1982                            | V6          |
| 51003          | Washford at Beggearn Huish               | EA-WX               | Full period of record                 | V8          |
| 52003          | Halsewater at Halsewater                 | EA-WX               | 30/11/1992                            | V9          |
| 52004          | Isle at Ashford Mill                     | EA-WX               | 07/03/1972                            | V5          |
| 52005          | Tone at Bishops Hull                     | EA-WX               | 11/07/1968                            | V9          |
| 52006          | Yeo at Pen Mill                          | EA-WX               | Full period of record                 | V8          |
| 52007          | Parrett at Chiselborough                 | EA-WX               | Full period of record                 | V10         |
| 52009          | Sheppey at Fenny Castle                  | EA-WX               | 14/08/1992                            | V10         |
| 52010          | Brue at Lovington                        | EA-WX               | Full period of record                 | V8          |
| 52011          | Cary at Somerton                         | EA-WX               | Full period of record                 | V10         |
| 52014          | Tone at Greenham                         | EA-WX               | 09/02/1974                            | V8, V12     |
| 52015          | Land Yeo at Wraxall Bridge               | EA-WX               | 29/11/1992                            | V10         |
| 52016          | Currypool Stream at Currypool Farm       | EA-WX               | Full period of record                 | V11         |
| 52017          | Congresbury Yeo at Iwood                 | EA-WX               | Full period of record                 | V7          |
| 52025          | Hillfarrance Brook at Milverton          | EA-WX               | Full period of record                 | V11         |
| 53002          | Semington Brook at Semington             | EA-WX               | Full period of record                 | V7          |
| 53004          | Chew at Compton Dando                    | EA-WX               | Full period of record                 | V8          |

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| 53005          | Midford Brook at Midford              | EA-WX               | Full period of record                 | V9          |
| 53006          | Frome (Bristol) at Frenchay           | EA-WX               | 20/12/1983                            | V8, V12     |
| 53007          | Frome (Somerset) at Tellisford        | EA-WX               | 03/08/1965                            | V9          |
| 53008          | Avon at Great Somerford               | EA-WX               | Full period of record                 | V7, V12     |
| 53009          | Wellow Brook at Wellow                | EA-WX               | Full period of record                 | V11         |
| 53013          | Marden at Stanley                     | EA-WX               | Full period of record                 | V6, V8      |
| 53017          | Boyd at Bitton                        | EA-WX               | 09/10/1988                            | V9          |
| 53018          | Avon at Bathford                      | EA-WX               | Full period of record                 | V7, V9, V11 |
| 53023          | Sherston Avon at Fosseyway            | EA-WX               | Full period of record                 | V6, V8      |
| 53025          | Mells at Vallis                       | EA-WX               | Full period of record                 | V11         |
| 53026          | Frome (Bristol) at Frampton Cotterell | EA-WX               | Full period of record                 | V12         |
| 53028          | By Brook at Middlehill                | EA-WX               | Full period of record                 | V9          |
| 53029          | Biss at Trowbridge                    | EA-WX               | Full period of record                 | V7, V9      |
| 54001          | Severn at Bewdley                     | EA-WM               | 07/01/1983                            | V9          |
| 54002          | Avon at Evesham                       | EA-WM               | 06/01/1995                            | V8          |
| 54004          | Sowe at Stoneleigh                    | EA-WM               | Full period of record                 | V9          |
| 54005          | Severn at Montford                    | EA-WM               | 24/01/1971                            | V7          |
| 54007          | Arrow at Broom                        | EA-WM               | Full period of record                 | V9, V11     |
| 54008          | Teme at Tenbury                       | EA-WM               | 14/01/1970                            | V11         |
| 54011          | Salwarpe at Harford Hill              | EA-WM               | 24/01/1971                            | V10         |
| 54012          | Tern at Walcot                        | EA-WM               | 03/12/1972                            | V8          |
| 54012          | Tern at Walcot                        | EA-WM               | 01/10/1999                            | V12         |
| 54014          | Severn at Abermule                    | NRW                 | 22/02/1970                            | V8          |
| 54014          | Severn at Abermule                    | NRW                 | 01/10/2008                            | V11         |
| 54016          | Roden at Rodington                    | EA-WM               | Full period of record                 | V7          |
| 54018          | Rea Brook at Hookagate                | EA-WM               | 14/12/1978                            | V9          |
| 54019          | Avon at Stareton                      | EA-WM               | Full period of record                 | V9          |
| 54020          | Perry at Yeaton                       | EA-WM               | Full period of record                 | V7          |
| 54023          | Badsey Brook at Offenham              | EA-WM               | Full period of record                 | V11         |
| 54024          | Worfe at Burcote                      | EA-WM               | Full period of record                 | V11         |
| 54026          | Chelt at Slate Mill                   | EA-WM               | 01/10/1983                            | V12         |
| 54028          | Vyrnwy at Llanymynech                 | NRW                 | 13/12/2011                            | V6          |
| 54028          | Vyrnwy at Llanymynech                 | NRW                 | Full period of record                 | V8, V11     |
| 54029          | Teme at Knightsford Bridge            | EA-WM               | Full period of record                 | V7          |
| 54034          | Dowles Brook at Oak Cottage           | EA-WM               | Full period of record                 | V9          |
| 54036          | Isbourne at Hinton on the Green       | EA-WM               | Full period of record                 | V8          |
| 54038          | Tanat at Llanyblodwel                 | EA-WM               | 02/12/1992                            | V10         |
| 54040          | Meese at Tibberton                    | EA-WM               | Full period of record                 | V8          |
| 54041          | Tern at Eaton upon Tern               | EA-WM               | 28/01/1977                            | V8          |
| 54044          | Tern at Ternhill                      | EA-WM               | Full period of record                 | V9          |
| 54052          | Bailey Brook at Ternhill              | EA-WM               | Full period of record                 | V9          |
| 54080          | Severn at Dolwen                      | NRW                 | 22/11/2011                            | V6          |
| 54080          | Severn at Dolwen                      | NRW                 | Full period of record                 | V8          |
| 54102          | Avon at Lilbourne                     | EA-WM               | 01/01/2013                            | V10         |
| 54106          | Stour (Warks) at Shipston             | EA-WM               | Full period of record                 | V9          |
| 54114          | Avon at Warwick                       | EA-WM               | 15/06/2007                            | V8          |

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| 54114          | Avon at Warwick                          | EA-WM               | Full period of record                 | V9          |
| 54906          | Stour (Worcs) at Kidderminster Gilt Edge | EA-WM               | 01/10/1976                            | V12         |
| 55002          | Wye at Belmont                           | EA-WM               | 01/10/1984                            | V11         |
| 55007          | Wye at Erwood                            | NRW                 | 11/03/1981                            | V8          |
| 55012          | Irfon at Cilmery                         | NRW                 | 12/12/1978                            | V8          |
| 55012          | Irfon at Cilmery                         | NRW                 | Full period of record                 | V11         |
| 55013          | Arrow at Titley Mill                     | EA-WM               | 14/01/1971                            | V11         |
| 55014          | Lugg at Byton                            | EA-WM               | 01/10/1981                            | V11,V12     |
| 55016          | Irfon at Disserth                        | NRW                 | 02/01/1988                            | V8          |
| 55018          | Frome at Yarkhill                        | EA-WM               | 01/01/1984                            | V12         |
| 55021          | Lugg at Butts Bridge                     | EA-WM               | 24/11/1984                            | V7          |
| 55021          | Lugg at Butts Bridge                     | EA-WM               | 01/10/1988                            | V11         |
| 55023          | Wye at Redbrook                          | NRW                 | 13/03/1981                            | V9          |
| 55025          | Llynfi at Three Cocks                    | NRW                 | 11/03/1981                            | V9          |
| 55026          | Wye at Ddol Farm                         | NRW                 | 22/12/1985                            | V8          |
| 55029          | Monnow at Grosmont                       | NRW                 | 29/04/2012                            | V6          |
| 55029          | Monnow at Grosmont                       | NRW                 | 01/10/2009                            | V7          |
| 55032          | Elan at Caban Dam                        | NRW                 | Full period of record                 | V9          |
| 56004          | Usk at Llandetty                         | NRW                 | 14/11/2009                            | V8          |
| 56006          | Usk at Trallong                          | NRW                 | Full period of record                 | V9          |
| 56012          | Grwyne at Millbrook                      | NRW                 | 03/01/1982                            | V9          |
| 56013          | Yscir at Pont-Ar-Yscir                   | NRW                 | 05/01/1985                            | V9          |
| 57004          | Cynon at Abercynon                       | NRW                 | 13/02/1982                            | V7, V10     |
| 57005          | Taff at Pontypridd                       | NRW                 | 12/11/1992                            | V7          |
| 57006          | Rhondda at Trehafod                      | NRW                 | 15/10/1983                            | V7          |
| 57008          | Rhymney at Llanederyn                    | NRW                 | 10/03/1982                            | V7          |
| 57009          | Ely at St Fagans                         | NRW                 | Full period of record                 | V8          |
| 57010          | Ely at Lanelay                           | NRW                 | 10/03/1982                            | V8          |
| 57010          | Ely at Lanelay                           | NRW                 | Full period of record                 | V11         |
| 57014          | Rhymney at Bargoed                       | NRW                 | Full period of record                 | V7          |
| 57017          | Rhondda Fawr at Tynewydd                 | NRW                 | Full period of record                 | V7          |
| 58005          | Ogmore at Brynmenyn                      | NRW                 | Full period of record                 | V11         |
| 58006          | Mellte at Pontneddfechan                 | NRW                 | 15/03/1982                            | V9, V11     |
| 58007          | Llynfi at Coytrahen                      | NRW                 | 06/03/1982                            | V7, V11     |
| 58008          | Dulais at Cilfrew                        | NRW                 | 12/02/1982                            | V10         |
| 58009          | Ewenny at Keepers Lodge                  | NRW                 | 22/12/1995                            | V8          |
| 58012          | Afan at Marcroft Weir                    | NRW                 | Full period of record                 | V9          |
| 59001          | Tawe at Ynystanglws                      | NRW                 | 14/10/2002                            | V8          |
| 59001          | Tawe at Ynystanglws                      | NRW                 | 08/06/1998                            | V10         |
| 59002          | Loughor at Tir-y-dail                    | NRW                 | 06/03/1982                            | V9          |
| 60001          | Twyi at Ty Castell                       | NRW                 | 03/01/1982                            | V6, V7, V9  |
| 60002          | Cothi at Felin Mynachdy                  | NRW                 | 12/02/1982                            | V7          |
| 60003          | Taf at Clog-y-Fran                       | NRW                 | 06/03/1982                            | V9, V10     |
| 60006          | Gwili at Glangwili                       | NRW                 | 03/01/1982                            | V8          |
| 60007          | Tywi at Dolau Hirion                     | NRW                 | 12/02/1982                            | V7, V11     |
| 60009          | Sawdde at Felin-y-cwm                    | NRW                 | 29/12/2012                            | V6          |

| Station Number | Station Name                       | Measuring Authority | Start date of POT independence change | Released in |
|----------------|------------------------------------|---------------------|---------------------------------------|-------------|
| 60009          | Sawdde at Felin-y-cwm              | NRW                 | 23/08/1985                            | V7          |
| 60011          | Conwy at Cwmlanerch                | NRW                 | 01/11/1980                            | V11         |
| 60012          | Twrch at Ddol Las                  | NRW                 | 12/02/1982                            | V7          |
| 60016          | Tywi at Manorafon                  | NRW                 | Full period of record                 | V11         |
| 60017          | Twrch at Gurnos                    | NRW                 | Full period of record                 | V9          |
| 61002          | Eastern Cleddau at Canaston Bridge | NRW                 | 10/03/1982                            | V8, V10     |
| 61003          | Gwaun at Cilrhedyn Bridge          | NRW                 | 24/10/2011                            | V6          |
| 62001          | Teifi at Glanteifi                 | NRW                 | 13/02/1982                            | V9          |
| 62002          | Teifi at Llanfair                  | NRW                 | 08/11/2002                            | V8          |
| 62002          | Teifi at Llanfair                  | NRW                 | Full period of record                 |             |
| 63001          | Ystwyth at Pont Llolwyn            | NRW                 | 29/10/1989                            | V8          |
| 63003          | Wyre at Llanrystud                 | NRW                 | 01/10/1999                            | V7          |
| 63003          | Wyre at Llanrystud                 | NRW                 | Full period of record                 | V8          |
| 64001          | Dyfi at Dyfi Bridge                | NRW                 | 18/11/2009                            | V6          |
| 64001          | Dyfi at Dyfi Bridge                | NRW                 | 11/01/1990                            | V8          |
| 64002          | Dysynni at Pont-y-Garth            | NRW                 | 03/03/1998                            | V6, V7      |
| 64006          | Leri at Dolybont                   | NRW                 | 24/09/1982                            | V8          |
| 64011          | Cerist at Llaw'r Cae               | NRW                 | Full period of record                 | V7          |
| 65001          | Glaslyn at Beddgelert              | NRW                 | 18/08/1982                            | V10         |
| 65004          | Gwyrfaï at Bontnewydd              | NRW                 | 20/07/2010                            | V6          |
| 65004          | Gwyrfaï at Bontnewydd              | NRW                 | 04/01/1982                            | V7          |
| 65005          | Erch at Pencaenewydd               | NRW                 | 10/03/1982                            | V7          |
| 65006          | Seiont at Peblig Mill              | NRW                 | 01/10/2013                            | V7          |
| 65007          | Dwyfor at Garndolbenmaen           | NRW                 | 10/03/1982                            | V8          |
| 66004          | Wheeler at Bodfari                 | NRW                 | 27/01/1977                            | V8          |
| 66011          | Conwy at Cwmlanerch                | NRW                 | 01/11/1981                            | V11         |
| 67005          | Ceiriog at Brynkinalt Weir         | NRW                 | 24/01/1971                            | V7          |
| 67006          | Alwen at Druid                     | NRW                 | 19/02/1970                            | V8          |
| 67008          | Alyn at Pont-y-Capel               | NRW                 | 22/01/1970                            | V7          |
| 67009          | Alyn at Rhydymwyn                  | NRW                 | 05/02/1980                            | V7          |
| 67010          | Gelyn at Cynefail                  | NRW                 | Full period of record                 | V9          |
| 67018          | Dee at New Inn                     | NRW                 | 01/01/1982                            | V11         |
| 67018          | Dee at New Inn                     | NRW                 | 01/01/1982                            | V11         |
| 68001          | Weaver at Ashbrook                 | EA-GMMC             | 05/12/1979                            | V7          |
| 68003          | Dane at Rudheath                   | EA-GMMC             | 03/02/1977                            | V6          |
| 68003          | Dane at Rudheath                   | EA-GMMC             | 02/01/1976                            | V7          |
| 68005          | Weaver at Audlem                   | EA-GMMC             | 22/03/1976                            | V7          |
| 68006          | Dane at Hulme Walfield             | EA-GMMC             | 01/05/1979                            | V12         |
| 68007          | Wincham Brook at Lostock Gralam    | EA-GMMC             | 01/10/1979                            | V12         |
| 68010          | Fender at Ford Lane                | EA-GMMC             | Full period of record                 | V11         |
| 68011          | Arley Brook at Gore Farm           | EA-GMMC             | Full period of record                 | V11         |
| 68018          | Dane at Congleton Park             | EA-GMMC             | 01/10/2012                            | V6          |
| 68018          | Dane at Congleton Park             | EA-GMMC             | 05/12/1979                            | V7          |
| 68020          | Gowy at Bridge Trafford            | EA-GMMC             | Full period of record                 | V7          |
| 68021          | Arrowe Brook at Acton Lane         | EA-GMMC             | Full period of record                 | V11         |
| 68044          | Dane at Hug Bridge                 | EA-GMMC             | 18/01/2007                            | V6          |

| Station Number | Station Name                           | Measuring Authority | Start date of POT independence change | Released in |
|----------------|--|---------------------|---------------------------------------|-------------|
| 68044          | Dane at Hug Bridge                     | EA-GMMC             | Full period of record                 | V9          |
| 69003          | Irk at Scotland Weir                   | EA-GMMC             | 01/04/1974                            | V12         |
| 69005          | Glaze Brook at Little Woolden Hall     | EA-GMMC             | Full period of record                 | V7          |
| 69006          | Bollin at Dunham Massey                | EA-GMMC             | 24/12/1985                            | V12         |
| 69007          | Mersey at Ashton Weir                  | EA-GMMC             | 25/09/1976                            | V7          |
| 69008          | Dean at Stanneylands                   | EA-GMMC             | 02/01/1976                            | V9          |
| 69012          | Bollin at Wilmslow                     | EA-GMMC             | 02/01/1976                            | V9          |
| 69015          | Etherow at Compstall                   | EA-GMMC             | 19/10/1971                            | V9          |
| 69017          | Goyt at Marple Bridge                  | EA-GMMC             | 01/01/1976                            | V6          |
| 69017          | Goyt at Marple Bridge                  | EA-GMMC             | 02/01/1976                            | V9          |
| 69020          | Medlock at London Road                 | EA-GMMC             | 01/11/1992                            | V7          |
| 69020          | Medlock at London Road                 | EA-GMMC             | 01/05/1975                            | V10         |
| 69022          | Irwell at Irwell Vale                  | EA-GMMC             | Full period of record                 | V6, V8      |
| 69023          | Roch at Blackford Bridge               | EA-GMMC             | 01/01/1976                            | V10         |
| 69024          | Croal at Farnworth Weir                | EA-GMMC             | 15/03/1978                            | V6, V8      |
| 69025          | Irwell at Manchester Racecourse        | EA-GMMC             | Full period of record                 | V9          |
| 69027          | Tame at Portwood                       | EA-GMMC             | Full period of record                 | V11         |
| 69028          | Mersey at Brinksway                    | EA-GMMC             | 11/02/1974                            | V7, V8      |
| 69030          | Sankey Brook at Causey Bridges         | EA-GMMC             | 28/12/1978                            | V10         |
| 69032          | Alt at Kirkby                          | EA-CL               | 28/12/1978                            | V7          |
| 69041          | Tame at Broomstairs                    | EA-GMMC             | 03/09/1974                            | V6, V8      |
| 69043          | Irk at Collyhurst Weir                 | EA-GMMC             | Full period of record                 | V10         |
| 69044          | Irwell at Bury Ground                  | EA-GMMC             | 06/11/1996                            | V8          |
| 69046          | Bradshaw Brook at Bradshaw Tennis Club | EA-GMMC             | Full period of record                 | V9,V11      |
| 69047          | Roch at Littleborough                  | EA-GMMC             | Full period of record                 | V6, V8      |
| 69048          | Tame at Uppermill                      | EA-GMMC             | Full period of record                 | V10, V11    |
| 69803          | Roch at Rochdale                       | EA-GMMC             | Full period of record                 | V11         |
| 70002          | Douglas at Wanes Blades Bridge         | EA-CL               | Full period of record                 | V9          |
| 70003          | Douglas at Wigan                       | EA-CL               | 03/12/1999                            | V8          |
| 70004          | Yarrow at Croston Mill                 | EA-CL               | 01/10/2013                            | V5          |
| 70004          | Yarrow at Croston Mill                 | EA-CL               | Full period of record                 | V6, V8, V9  |
| 71001          | Ribble at Samlesbury                   | EA-CL               | 02/01/1976                            | V8          |
| 71004          | Calder at Whalley Weir                 | EA-CL               | 01/01/1976                            | V7          |
| 71004          | Calder at Whalley Weir                 | EA-CL               | 02/01/1976                            | V8          |
| 71006          | Ribble at Henthorn                     | EA-CL               | 02/01/1976                            | V8          |
| 71008          | Hodder at Hodder Place                 | EA-CL               | 02/01/1976                            | V9          |
| 71009          | Ribble at New Jumbles Rock             | EA-CL               | 26/11/1979                            | V10         |
| 71010          | Pendle Water at Barden Lane            | EA-CL               | 22/04/1977                            | V9          |
| 71011          | Ribble at Arnford                      | EA-CL               | Full period of record                 | V7          |
| 71013          | Darwen at Ewood                        | EA-CL               | Full period of record                 | V7          |
| 71014          | Darwen at Blue Bridge                  | EA-CL               | Full period of record                 | V11         |
| 72002          | Wyre at St Michaels                    | EA-CL               | 22/04/1970                            | V10         |
| 72003          | Hindburn at Wray                       | EA-CL               | 23/11/1977                            | V6          |
| 72003          | Hindburn at Wray                       | EA-CL               | 01/10/1976                            | V7, V9, V10 |
| 72004          | Lune at Caton                          | EA-CL               | 07/01/1979                            | V8          |
| 72005          | Lune at Killington                     | EA-CL               | 01/10/1981                            | V8          |

| Station Number | Station Name                       | Measuring Authority | Start date of POT independence change | Released in |
|----------------|------------------------------------|---------------------|---------------------------------------|-------------|
| 72007          | Brock at upstream of A6            | EA-CL               | Full period of record                 | V10         |
| 72009          | Wenning at Wennington              | EA-CL               | 14/06/1977                            | V9, V10     |
| 72011          | Rawthey at Brigflatts              | EA-CL               | Full period of record                 | V10, V11    |
| 72014          | Conder at Galgate                  | EA-CL               | 06/04/1978                            | V6          |
| 72014          | Conder at Galgate                  | EA-CL               | 29/11/1976                            | V7          |
| 72015          | Lune at Lunes Bridge               | EA-CL               | 01/10/1981                            | V8, V10     |
| 72017          | Wenning at Hornby                  | EA-CL               | 05/05/1997                            | V9          |
| 72817          | New Mill Brook at Hollowforth Hall | EA-CL               | Full period of record                 | V12         |
| 73002          | Crake at Low Nibthwaite            | EA-CL               | Full period of record                 | V10         |
| 73005          | Kent at Sedgwick                   | EA-CL               | 02/01/1976                            | V10         |
| 73008          | Bela at Beetham                    | EA-CL               | 15/11/1978                            | V8          |
| 73009          | Sprint at Sprint Mill              | EA-CL               | 02/01/1976                            | V7          |
| 73010          | Leven at Newby Bridge              | EA-CL               | 29/11/1976                            | V8          |
| 73010          | Leven at Newby Bridge              | EA-CL               | 20/10/1971                            | V9          |
| 73011          | Mint at Mint Bridge                | EA-CL               | Full period of record                 | V9, V10     |
| 73014          | Brathay at Jeffy Knots             | EA-CL               | Full period of record                 | V7, V8, V9  |
| 73015          | Keer at High Keer Weir             | EA-CL               | 01/01/1991                            | V6, V12     |
| 73017          | Kent at Bowston                    | EA-CL               | Full period of record                 | V11         |
| 74001          | Duddon at Duddon Hall              | EA-CL               | 03/02/1977                            | V9          |
| 74002          | Irt at Galesyke                    | EA-CL               | 01/01/1976                            | V12         |
| 74003          | Ehen at Bleach Green               | EA-CL               | 26/11/1976                            | V9          |
| 74005          | Ehen at Braystones                 | EA-CL               | 19/10/1982                            | V8          |
| 74005          | Ehen at Braystones                 | EA-CL               | 01/10/1977                            | V12         |
| 74006          | Calder at Calder Hall              | EA-CL               | 17/11/1978                            | V8          |
| 74007          | Esk at Cropple How                 | EA-CL               | 03/02/1977                            | V9          |
| 74008          | Duddon at Ulpha                    | EA-CL               | Full period of record                 | V11         |
| 75003          | Derwent at Ouse Bridge             | EA-CL               | 01/06/2012                            | V10         |
| 75003          | Derwent at Ouse Bridge             | EA-CL               | 01/10/1976                            | V12         |
| 75004          | Cocker at Southwaite Bridge        | EA-CL               | 27/11/1976                            | V8, V11     |
| 75005          | Derwent at Portinscale             | EA-CL               | 01/10/2011                            | V5          |
| 75007          | Glenderamackin at Threlkeld        | EA-CL               | Full period of record                 | V9          |
| 75009          | Greta at Low Briery                | EA-CL               | 02/01/1976                            | V7          |
| 75017          | Ellen at Bullgill                  | EA-CL               | Full period of record                 | V10, V12    |
| 75018          | Derwent at Seaton Mill             | EA-CL               | Full period of record                 | V8, V9      |
| 76004          | Lowther at Eamont Bridge           | EA-CL               | 25/01/1977                            | V9, V11     |
| 76005          | Eden at Temple Sowerby             | EA-CL               | 01/10/1976                            | V12         |
| 76007          | Eden at Sheepmount                 | EA-CL               | Full period of record                 | V8          |
| 76014          | Eden at Kirkby Stephen             | EA-CL               | 02/02/1981                            | V8          |
| 76015          | Eamont at Pooley Bridge            | EA-CL               | Full period of record                 | V7, V11     |
| 76017          | Eden at Kirkby Stephen             | EA-CL               | Full period of record                 | V8, V11     |
| 76019          | Roe Beck at Stockdalewath          | EA-CL               | Full period of record                 | V10         |
| 76021          | Eden at Great Musgrave Bridge      | EA-CL               | Full period of record                 | V8, V9      |
| 76022          | Caldew at Cummersdale              | EA-CL               | Full period of record                 | V9          |
| 76023          | Dacre Beck at Dacre Bridge         | EA-CL               | Full period of record                 | V9          |

## ANNEX 4 STATIONS WITH CHANGES TO DATUM HISTORY

For more information about datum history changes see section 5.7.

| Station Number | Station Name                   | Measuring Authority |
|----------------|--------------------------------|---------------------|
| 2001           | Helmsdale at Kilphedir         | SEPA-NW             |
| 4005           | Meig at Glenmeanie             | SEPA-NW             |
| 8011           | Livet at Minmore               | SEPA-NW             |
| 17003          | Bonny Water at Bonnybridge     | SEPA-SE             |
| 19017          | Gogar Burn at Turnhouse        | SEPA-SE             |
| 21024          | Jed Water at Jedburgh          | SEPA-SE             |
| 23015          | North Tyne at Barrasford       | EA-NE               |
| 26009          | West Beck at Snakeholme Lock   | EA-Y                |
| 27002          | Wharfe at Wetherby Flint Mill  | EA-Y                |
| 27051          | Crimple at Burn Bridge         | EA-Y                |
| 27053          | Nidd at Birstwith              | EA-Y                |
| 27059          | Laver at Ripon Laver Weir      | EA-Y                |
| 27062          | Nidd at Skip Bridge            | EA-Y                |
| 28002          | Blithe at Hamstall Ridware     | EA-WM               |
| 28081          | Tame at Bescot                 | EA-WM               |
| 37011          | Chelmer at Churchend           | EA-EA               |
| 37012          | Colne at Poolstreet            | EA-EA               |
| 39022          | Loddon at Sheepbridge          | EA-T                |
| 40009          | Teise at Stonebridge           | EA-KSL              |
| 40021          | Hexden Channel at Hopemill     | EA-KSL              |
| 48006          | Cober at Helston County Bridge | EA-DC               |
| 50007          | Taw at Taw Bridge              | EA-DC               |
| 54102          | Avon at Lilbourne              | EA-WM               |
| 55018          | Frome at Yarkhill              | EA-WM               |
| 55032          | Elan at Caban Dam              | NRW                 |
| 56001          | Usk at Chainbridge             | NRW                 |
| 56003          | Honddu at The Forge Brecon     | NRW                 |
| 56012          | Grwyne at Millbrook            | NRW                 |
| 57005          | Taff at Pontypridd             | NRW                 |
| 57007          | Taff at Fiddlers Elbow         | NRW                 |
| 58012          | Afan at Marcroft Weir          | NRW                 |
| 69028          | Mersey at Brinksway            | EA-GMMC             |
| 82003          | Stinchar at Balnowlart         | SEPA-SW             |
| 83002          | Garnock at Dalry               | SEPA-SW             |
| 83006          | Ayr at Mainholm                | SEPA-SW             |
| 83010          | Irvine at Newmilns             | SEPA-SW             |
| 84005          | Clyde at Blairston             | SEPA-SW             |
| 84018          | Clyde at Tulliford Mill        | SEPA-SW             |
| 96003          | Strathy at Strathy Bridge      | SEPA-NW             |