



**Action Workshop on Urban Run-Off Modelling
-Why not do it Properly?**



Sponsored by WaPUG and supported by FWR

Wednesday 18th April 2007

At Cropston

(Venue provided by Severn Trent Water)

Objective - to launch Working Groups

Chairman Jamie Margetts, Clear Environmental Ltd
Presenter Andy Eadon

PROGRAMME FOR THE DAY

09.00 – 09.30 *Arrival and Coffee*
09.30 – 09.45 Welcome and Objectives - Jamie Margetts
09.45 – 10.00 Background – Andy Eadon
10.00 – 10.45 Discussion – ToR for Standard Surfaces Group
10.45 – 11.00 *Tea/Coffee*
11.00 - 11.45 Discussion – ToR for Runoff Processes Group
11.45 – 12.30 Discussion – ToR for Design Parameters Group
12.30 – 13.30 *Lunch*
13.30 – 14.00 Groups Resourcing – volunteers and representation
14.00 – 15.30 Group Sessions – agree first steps and programme
15.30 – 15.45 *Tea/coffee*
15.45 – 16.30 Summaries of group sessions - Group Chairmen
16.30 – 16.45 Overall Programme and Summary– Jamie Margetts

Draft Terms of Reference for Standard Surfaces Group

1. Select, modify or introduce standardised surfaces which collect run-off in urban areas.
2. Include separately areas which could deliver run-off in extreme events.
3. Take due account of watersheds and formal inlets and gullies to sewer systems.
4. Make sure that both uniform and composite surfaces can be assigned to more than one drainage system where required (ie combined, separate, partially separate, soakaways and other SUDS).
5. Ensure that all areas are readily determined by topographical survey alone and can take advantage of satellite imaging.
6. Take the view that standard surfaces can be measured independently of system modelling.
7. Take the view that standard surfaces can be used for a variety of run-off models.
8. Take advantage of current definitions and practices.
9. Develop a data checking and audit process which does not rely on flow survey results.
10. Liaise and cooperate with the Run-off Processes Group and the Design Parameters Group.
11. Respect the need to reduce the costs of modelling drainage systems in overall terms.
12. Produce and present progress reports to WaPUG.
13. Produce a draft code of practice suitable for publication by WaPUG

Draft Terms of Reference for Run-off Processes Group

1. Develop, using standardised surfaces, a run-off model specifically for sewered systems in urban areas.
2. Take realistic, logical and proper account of formal inlets and gullies to underground drainage systems.
3. Allow for run-off contributions from remote and unconnected surfaces in extreme conditions or events.
4. Take advantage of current recommended processes and associated research.
5. Ensure that the process is as logical and understandable as possible.
6. Consider the use of flow survey results to verify run-off process coefficients.
7. Make recommendations for overland flow processes to be dealt with separately.
8. Liaise and cooperate with the Standard Surfaces Group and the Design Parameters Group.
9. Respect the need to reduce the costs of modelling drainage systems in overall terms.
10. Produce a draft process with definitions and illustrated examples suitable for implementation.
11. Produce and present progress reports to WaPUG.
12. Contact appropriate software developers and encourage availability of the recommended process for the Industry.

Draft Terms of Reference for Design Parameters Group

1. Fully consider which surface and base data need modifying in the sewer design and rehabilitation processes to give an economic design life for investments.
2. Take account of the stages for option development and final design of proposals as outlined in "Designing Hydraulic Improvements for Sewer Systems" (copy attached).
3. Canvas the Industry and produce a list of parameters and range of allowances for growth/demand currently in use.
4. Liaise and cooperate with the Standard Surfaces Group and the Run-off Processes Group.
5. Respect the need to reduce the costs of modelling drainage systems in overall terms.
6. Produce a draft list of parameters and recommended allowances with definitions and illustrated examples, suitable for use in modelling.
7. Produce and present progress reports to WaPUG.
8. Produce a draft code of practice suitable for publication by WaPUG