SuD it- let’s do it!
Making SuDS happen

SuDS in Essex

Kathryn Goodyear
4th June 2013

Presentation format

• Introduction
• Where we are:
  • Essex County Council SuDS Design & Adoption Guide
  • Interim process for SuDS approval
  • Interim adoption policy
• SuDS schemes
• Learning points
• Preparation for the SAB role
• Critical success factors for National Standards
Introduction

- **Area:** 3,700 km²/1,420 sq. miles
- **11th largest County**
- **Population:** 1.4 million
- Driest part of the Country—average annual rainfall of around 600 millimetres
- Clay, impervious soils

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Introduction

- Two tier Authority
- Twelve District/Borough/City Councils
- Anglian & Thames River Basin Districts
- 2 Water companies
- No IDBs
**Introduction**

- ECC became the Lead Local Flood Authority in 2010, responsible for establishing partnerships and conducting Flood Investigations
- ECC gained responsibilities for Ordinary Watercourses under the Land Drainage Act 1991 in April 2012

**Where we are - SuDS Guide**

**Need**
- To guide local developers
- To summarise the best sources of information
- To give examples appropriate to Essex
- Project began March 2011 (ready for SAB role April 2012)
Where we are- SuDS Guide

Relation to National Standards

- The National Standards contain:
  - National Principles
  - National Standards

- LPAs ‘could set local requirements for planning permission that have the effect of more stringent requirements than these National Standards’

- ECC Guide contains:
  - Local Principles
  - Local Standards

Where we are- SuDS Guide

Scope/format

- Chapter 1: Introduction
- Chapter 2: SuDS and the Essex Environment
Where we are - SuDS Guide

Scope/format

• Chapter 3: Design Criteria

12 Local Principles

1. Plan for SuDS
2. Integrate with public spaces
3. Manage rainfall at the surface
4. Manage rainfall at the source
5. Mimic natural drainage
6. Design for water scarcity
7. Enhance biodiversity
8. Link to wider landscape
9. Design to be maintainable
10. Use a precautionary approach
11. Have regard to the historic environment
12. Show attention to detail

16 Local Standards

Where we are - SuDS Guide

Scope/format

• Chapter 4: Designing SuDS
Susdrain – SuD it, let’s do it – making SuDS happen

04/06/2013

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Where we are- SuDS Guide

Scope/format

- Chapter 5: The Approval Process

- Chapter 6: The Adoption process

Process

- Project Plan (timescales changed as implementation delayed)
- Produced by multidisciplinary team
- Working Group / Steering Group
- First draft guide complete September 2011
- Restricted consultation carried out with local districts/boroughs, neighboring authorities, EA, water companies etc. December 2011: 15 responses, 90 changes
- Public consultation carried out January – March 2012: 25 responses, 96 changes
- Final Guide published on website December 2012
Where we are - Interim process for approval

From June 2010:
- Copied into Environment Agency correspondence

From August 2011:
- Began commenting informally on sites over 1 hectare
- Look for design in line with National & Local Standards
- High level comments with technical approval carried out by Highways
- Standing Advice Note released stating:
  - When SAB expected
  - Requirement for approval
  - May be able to voluntarily adopt if designed to appropriate standards
  - 12 month transition period for developments with planning permission to be exempted from SAB approval
Where we are- Interim process for approval

- Database/statistics/links to other work
- Looked to set up arrangement with EA to take lead on SW for major developments but not currently feasible
- As EA require Flood Risk Assessment for major sites in FZ1 we considered looking at minor sites in FZ1 - contingency?

<table>
<thead>
<tr>
<th>Final point of discharge</th>
<th>Percentage (%)</th>
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<tr>
<td>Outfall to SW sewer</td>
<td>27</td>
</tr>
<tr>
<td>Outfall to watercourse</td>
<td>56</td>
</tr>
<tr>
<td>Outfall to main river</td>
<td>18</td>
</tr>
<tr>
<td>Infiltration</td>
<td>2</td>
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</tbody>
</table>

Where we are- Interim adoption policy

- Consider adoption of SuDS on each site on a case by case basis
- Adopt SuDS using S.38 & commuted sums
- Restrictions:
  - Permeable paving
  - Geocellular systems
- Other options:
  - Anglian Water
  - Districts/Boroughs

Adopted permeable paving- Port Lane, Colchester
SuDS schemes

- Sandon Park and Ride, Chelmsford:

SuDS schemes

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SuDS schemes

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SuDS schemes

- Harlow Gateway Site:
SuDS schemes

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SuDS schemes

- Archer’s Field, Laindon:
SuDS schemes

• Archer’s Field, Laindon:

SuDS schemes

• Various, Chelmsford:
SuDS schemes

• Various, Chelmsford:

Beaulieu Park

SuDS schemes

• Downham Road, Wickford
SuDS schemes

- Berechurch Road, Colchester:

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Learning points

What has worked

- Improved understanding for developers and us
- Clarified roles
- Links to other responsibilities:
  - Asset Register
  - Designating features
  - Land Drainage Act:
    - S.23 consent for alterations
    - S.25 to ensure maintenance

Learning points

What hasn’t worked

- Non-statutory consultee
- Involved too late
- 1 in 30 and 1 in 100 year drainage
- End of pipe systems
- No follow up
- Attention to detail
Learning points

What hasn’t worked

Priors Green, Takeley          Port Lane, Colchester

Priors Green, Takeley

Preparation for SAB role

‘SAB Trial’

- Being carried out with Anglian Water & Environment Agency
- Major applications
- Case management system & design checks

Predicted number of applications/resource implications

1st 3 years

- 250 large major/major SuDS applications per year
- 6 FTE (£300k)

Year 4 onwards

- Major application plus 3,500 minor SuDS applications per year
- 20 FTE (£1M)
Preparation for SAB role

Defra Task & Finish Groups
- Keep up to date with latest developments
- Contribute to workable National Standards

SAB Implementation Working/Steering Groups
- Work towards Action Plan, produced following SuDS and SABs event

Key issues
- Contingency planning
- Funding for highway SuDS
- Long term funding for SAB adopted SuDS
- SuDS in private property serving more than one property
- Affordability
- Enforcement
- Two tier difficulties

Critical success factors for National Standards

- Exactly who is responsible for what (aim of FWMA)
- Need for attention to detail
- Method of adoption
- National Application Form
- What happens at outline- purpose of SAB being consultee?
Preparation for SAB role

Always going to be challenges...

Thank You

Contact details:

• suds@essex.gov.uk
• Phil Callow/Kathryn Goodyear: 01245 437062/437138