# SuD it- let's do it! Making SuDS happen

SuDS in Essex

Kathryn Goodyear 4<sup>th</sup> 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 km<sup>2</sup>/1,420 sq. miles
- 11<sup>th</sup> largest County
- **Population:** 1.4 million
- Driest part of the Countryaverage annual rainfall of around 600 millimetres
- Clay, impervious soils





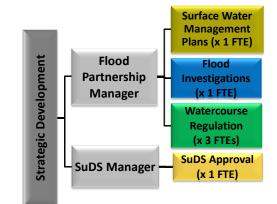
## Introduction

- 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

## <u>Need</u>

- 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)

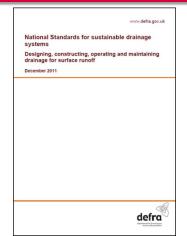




## Where we are- SuDS Guide

## **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 Colorest Plants Co

## Where we are- SuDS Guide

## Scope/format

• Chapter 3: Design Criteria

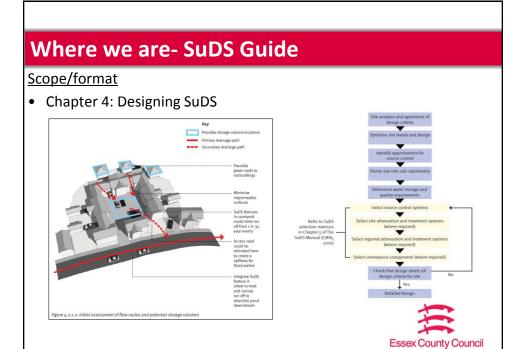
#### **12 Local Principles**

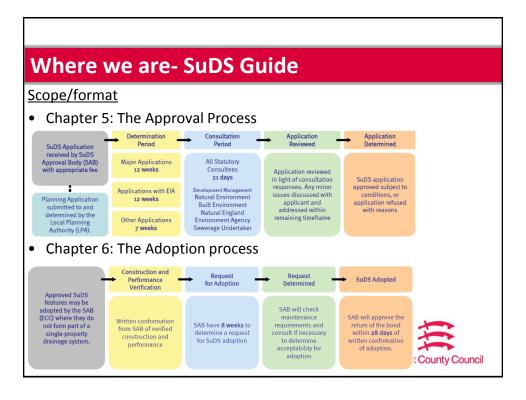
- 1. Plan for SuDS
- 2. Integrate with public spaces
- 3. Manage rainfall at the surface
- 4. Manage rainfall at the source
- 5. Mimic natural drainage
- 6. Design for water scarcity
- 7. Enhance biodiversity
- 8. Link to wider landscape
- 9. Design to be maintainable
- 10. Use a precautionary approach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

#### 16 Local Standards









## Where we are-SuDS Guide

#### **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

Essex County Council

# 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?



Final point of discharge	Percentage (%)
Outfall to SW sewer	27
Outfall to watercourse	56
Outfall to main river	18
Infiltration	2
-	



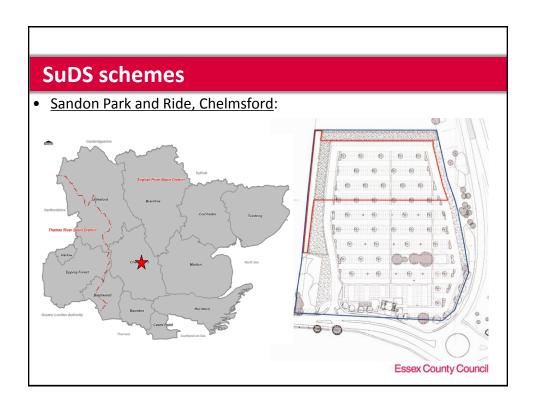
# Where we are-Interim adoption policy

- 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



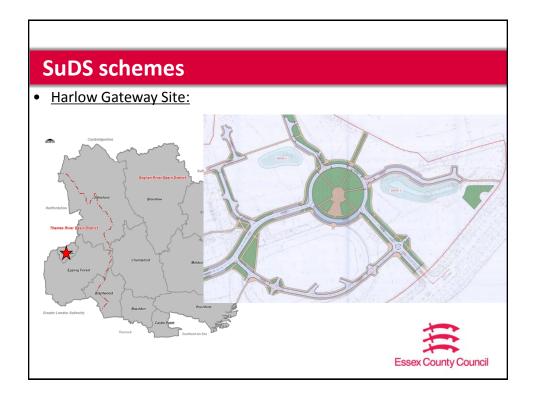
Adopted permeable paving-Port Lane, Colchester



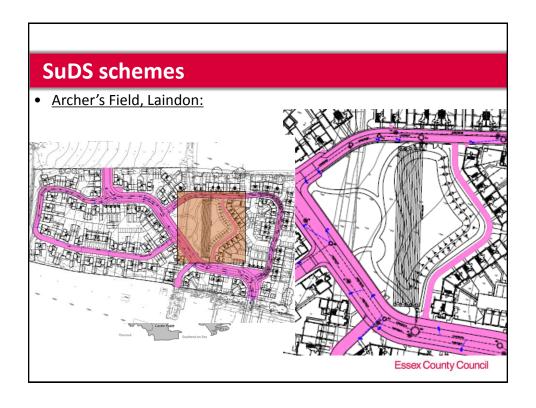




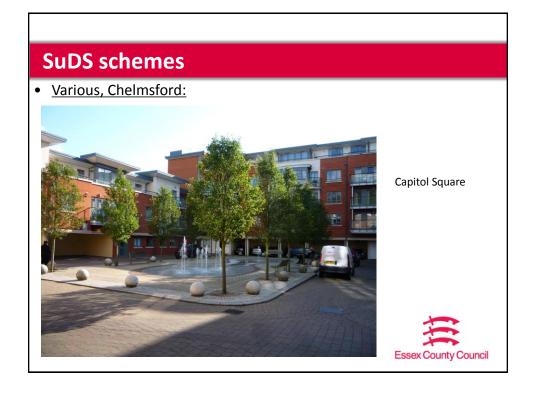




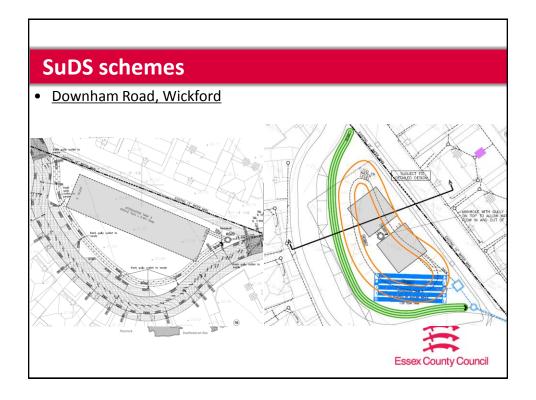


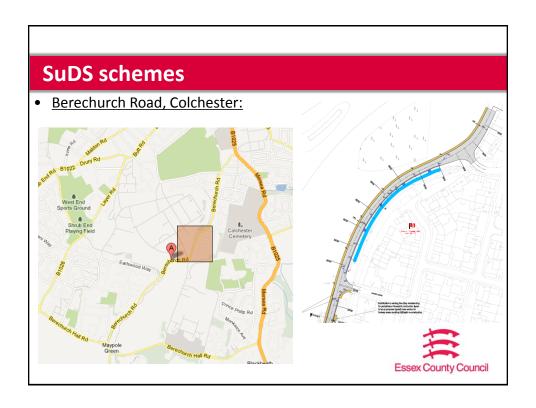


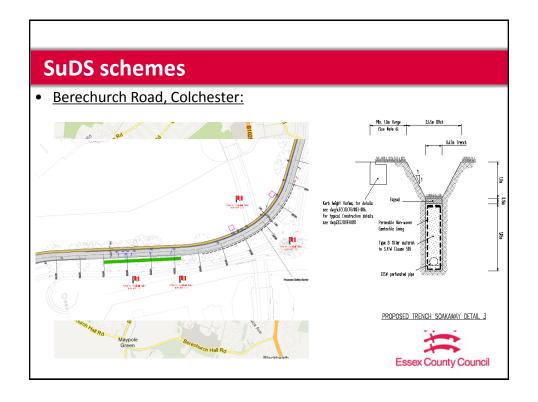












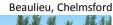
# **Learning points**

## What has worked

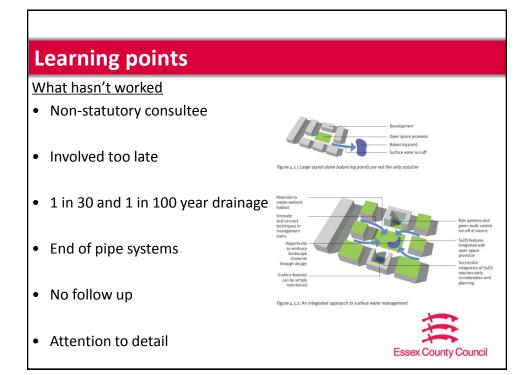
- Improved understanding for developers and us
- Clarified roles
- Links to other responsibilities:
  - Asset Register
  - Designating features
  - Land Drainage Act:
    - S.23 consent for alterations
    - S.25 to ensure maintenance



Great Notley, Braintree







# **Learning points**

## What hasn't worked





Priors Green, Takeley

Port Lane, Colchester



# **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

#### 1<sup>st</sup> 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**

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