



SuDS through Planning

Laura Kitson – Central Bedfordshire
Council

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Introducing Central Bedfordshire



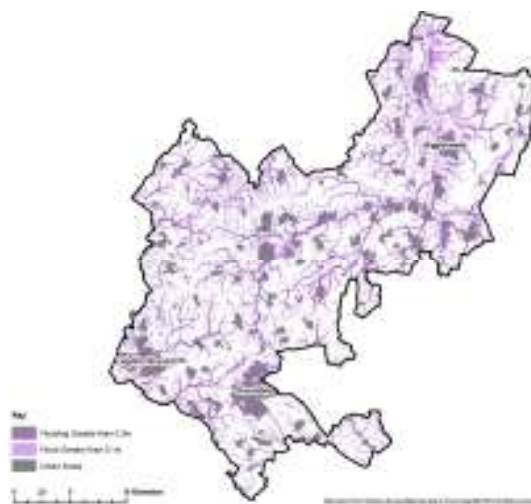
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Growth context



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Drainage context



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Our vision for SuDS

Shifting the thinking

Infrastructure → Asset
Drainage → Multifunctional
Homogeneous → Complements local character



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Why develop guidance?

- Using our existing statutory role – proactive local leadership
- Joined up guidance
- Early consideration of SuDS
- Holistic approach to SuDS design



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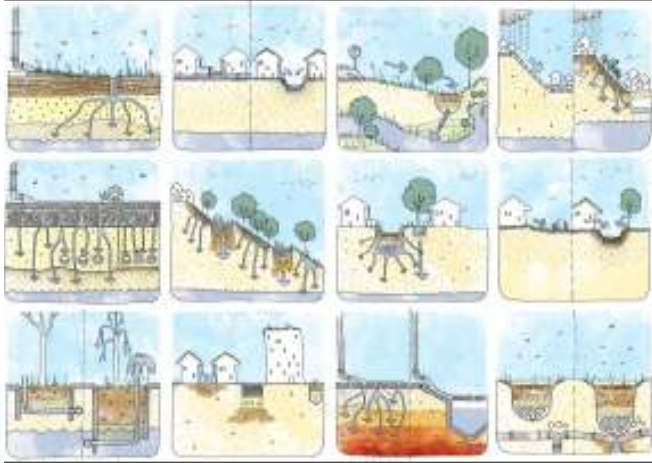

<ol style="list-style-type: none"> 1 Plan in SuDs from the start 2 Replicate natural drainage 3 Water re-use first 4 Enhance biodiversity 5 Focus on multi-functional uses 6 Minimise carbon and waste in SuDS 7 Design for easy access and maintenance 8 Linked design through every scale 9 Place making through SuDS design 10 Reduce reliance on pipes and pumps 	<p>RELEVANT SUDS PLANNING POLICIES</p> <table border="1"> <thead> <tr> <th>Policy</th> <th>Subject</th> <th>Explanation</th> <th>Policy Requirements</th> </tr> </thead> <tbody> <tr> <td>a</td> <td>Climate Change mitigation and adaptation</td> <td>Focusing on increasing carbon sequestration, improving water efficiency and drainage. It also focuses on incorporating vegetated SuDS to prevent surface water flooding, and on water recycling measures where appropriate.</td> <td>CBC draft development strategy Policy 18; Mid Bedfordshire policy CS11; South Bedfordshire policy CS12</td> </tr> <tr> <td>b</td> <td>Green infrastructure and ecological enhancements</td> <td>Restore and repair fragmented habitats to create functional green corridors.</td> <td>CBC draft development policies 16 and 17; Mid Bedfordshire CS10, CS17; South Bedfordshire policy CS16</td> </tr> <tr> <td>c</td> <td>Managing water quality and flood risk</td> <td>Improve the ecological quality of water bodies and produce an overall positive impact on the water environment</td> <td>CBC draft development strategy policy 18; South Bedfordshire policy CS12</td> </tr> <tr> <td>d</td> <td>Landscape character</td> <td>There is a focus on conserving and enhancing existing landscape character and local distinctiveness as per Central Bedfordshire's landscape character assessment</td> <td>CBC draft development strategy policy 18; Mid Bedfordshire policy CS15</td> </tr> <tr> <td>e</td> <td>Open space for healthy and sustainable communities</td> <td>Policies targeted at increasing the quantity, quality and access to open space will enhance opportunities for recreation and general well-being.</td> <td>CBC draft development strategy policies 22 and 41; Mid Bedfordshire policy CS1; South Bedfordshire policy CS17</td> </tr> </tbody> </table>	Policy	Subject	Explanation	Policy Requirements	a	Climate Change mitigation and adaptation	Focusing on increasing carbon sequestration, improving water efficiency and drainage. It also focuses on incorporating vegetated SuDS to prevent surface water flooding, and on water recycling measures where appropriate.	CBC draft development strategy Policy 18; Mid Bedfordshire policy CS11; South Bedfordshire policy CS12	b	Green infrastructure and ecological enhancements	Restore and repair fragmented habitats to create functional green corridors.	CBC draft development policies 16 and 17; Mid Bedfordshire CS10, CS17; South Bedfordshire policy CS16	c	Managing water quality and flood risk	Improve the ecological quality of water bodies and produce an overall positive impact on the water environment	CBC draft development strategy policy 18; South Bedfordshire policy CS12	d	Landscape character	There is a focus on conserving and enhancing existing landscape character and local distinctiveness as per Central Bedfordshire's landscape character assessment	CBC draft development strategy policy 18; Mid Bedfordshire policy CS15	e	Open space for healthy and sustainable communities	Policies targeted at increasing the quantity, quality and access to open space will enhance opportunities for recreation and general well-being.	CBC draft development strategy policies 22 and 41; Mid Bedfordshire policy CS1; South Bedfordshire policy CS17
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Incorporating SuDS on a flat site





Challenge – Conveying water using gravity ideally requires a gradient. Flat sites can, therefore, be a challenge. If a piped system is being used to convey surface water on a flat site, downstream SuDS can become deep and unattractive due to the drop required for pipe cover and gradient.

Approach – Manage surface water runoff at the surface and as close to its source as possible. If conveyance is required, surface approaches could include roadside kerbs with shallow rills and swales. Pumping should only be used as a last resort.

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1. Southern Clacknong	
2. Snettisham Ridge and Jakes	
3. Clay Hill and Wels	
4. Clay River floodplain	

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What does the guidance provide?

- Design principles – not prescriptions
- Requirements to suit our local area
- A statutory basis for seeking multi-functional SuDS

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How does this sit with the recent Government proposals?

Considerations for us as a Unitary authority

- SuDS as part of the planning process
- Evaluation of design
- Identifying assets
- Funding

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Wider issues from Government proposals

- Statutory weight; material consideration vs right to connect
- Adoption mechanism(s)

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How to maximise the opportunities

- Dialogue with planning colleagues – policy makers and development management
- Dialogue with developers
- Dialogue with stakeholders

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To find out more...

http://www.centralbedfordshire.gov.uk/Images/140509%20Central%20Bedfordshire%20Sustainable%20Drainage%20Guidance%20low%20res_tcm6-55090.pdf#False

or email laura.kitson@centralbedfordshire.gov.uk with any questions.