Incorporating SuDS into Neighbourhood Improvement Schemes in Central London

George Warren - Flood Risk Manager
London Borough of Hammersmith & Fulham

01/10/15

Contents

1. Background to Hammersmith & Fulham
2. Kenmont ‘Rain’ Gardens
3. Australia Road SuDS Scheme
4. Challenges of incorporating SuDS into Neighbourhood Improvement Schemes
Hammersmith & Fulham

- 183,000 Residents
- 16.4 km² (5th smallest in UK)
- 15 Underground Stations
- 3 National League Football Clubs (Chelsea, Fulham & QPR)
- 240km of highway
- 3no. Lost Rivers (Counters Creek, Stamford Brook & Parr’s Ditch)
- 8km of Thames Flood Walls
- Combined Sewer Network (Counters Creek)
Land Use and Topography

Ground Conditions
Fluvial & Tidal Flood Risk

Surface Water Flooding
Unforeseen Flooding

Thames Tideway Tunnel
Counters Creek Storm Relief Sewer

- Kenmont Gardens
- Australia Road
- Melina Road
- Talgarth Road
- Queen Caroline Estate
- Stevenage Road
- Goldhawk Road
- Edith Road
- Cheeseman’s Terrace
- Mendora Road
- Maystar Estate

George Warren – London Borough of Hammersmith & Fulham

Susdrain – SuDS and placemaking
Kenmont Gardens Consultation

- February 2014 - Three concepts were developed and placed out for public consultation
- September 2014 - Preferred option developed and placed out for further consultation
- February–May 2015 - Work undertaken with Residents Association and Kenmont Primary School to create tiles

Key Stakeholders: College Park Residents Association, Kenmont Primary School, Thames Water, BT and UK Power Networks
Concept Plans
Surface Water Management

Construction
Tiles made by Kenmont Primary School

“Everyone wants happiness without any pain, but you can’t have a rainbow without any rain”

Community Planting Event 04/06/15
Community Planting Event 04/06/15

Kenmont ‘Rain’ Gardens
Kenmont Rain Garden
Managing water run-off through tree pits

- Slows water flow to existing drains
- Prevents flooding
- Cleans water
- Protects biodiversity
- Helps tree/plants

Before & After
Before & After

Comments from The Community

“This is a very exciting project for the local community”
KENMONT PRIMARY SCHOOL

“We were very involved in deciding what trees should be planted and choosing the seating and lighting, and the designers seem to have done a really good job.

“For some time now there has been a concrete barrier there to stop traffic which was really quite run down. Given that we have no green space in our area at all, we’re very pleased with this project.”

COLLEGE PARK RESIDENTS’ ASSOCIATION
Susdrain – SuDS and placemaking

George Warren – London Borough of Hammersmith & Fulham

Australia Road
Australia Road Consultation

- March-June 2013 - Neighbourhood wide consultation
- February 2014 – Public Meeting
- February-March 2014 – Concept Plan Consultation
- April-October 2014 – Detailed Consultation with Key Stakeholders

Key Stakeholders: Randolph Beresford Early Years Centre, White City Residents Association, Thames Water, Metropolitan Police, UK Power Networks, BT, H&F Disability Forum Group
Construction

As of 28/09/15 (pre-planting)
Before & After (28/09/15)

Before & After (28/09/15)
Hot off the press...

Hot off the press...

George Warren – London Borough of Hammersmith & Fulham
Hot off the press..

Educational Signage

Bridget Joyce Square

Who was Bridget Joyce?

The main basin

The Rain Garden

The benefits of rain gardens are multiple.

The green roof

The pedestrian green corridor

The Rain Garden

The benefits of rain gardens are multiple.

The green roof

The pedestrian green corridor

Plan 1 of 3

The Rain Garden
Australia Rd Letter Responses

“I believe it will make a significant difference to the character and appeal of the area....

“It holds definite opportunities for further development and community involvement and cohesion.”

RANDOLPH BERESFORD EARLY YEARS CENTRE

“[It] will have a tremendously positive impact on the area and will provide a focal point for residents....

“It is particularly important to note how responsive the scheme is to the needs of children.”

WHITE CITY RESIDENTS ASSOCIATION

Challenges of incorporating SuDS into Neighbourhood Improvement Schemes

• Keeping abreast of potential opportunities
• “I have never witnessed it flood here in my lifetime”
• Materials not included within standard framework rates (£€$)
• Planting at ground level
• Maintenance
Thank you

George Warren - Flood Risk Manager
London Borough of Hammersmith & Fulham
george.warren@lbhf.gov.uk

Special thanks to: