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Scharnhauser Park, Ostfildern

Client: Stadt Ostfildern

Rainwater management:

Atelier Dreiseitl

Urban Design:

Janson & Wolfrum

Street planning: IB Gmelin

Planning and design:

1995–1999

Construction: 1996–2003

Site area: 140 ha

Settlement area: 70 ha

Residents: 9,000

Impermeable surface: 60 %

Annual rainfall: 700 mm

Rainfall intensity: $r_{15(1)}$

125 l/s/ha

Drainage method:

Constructed swales and trenches, retention basins, drainage to Höfelbach and Krähenbach and further into Körsch river

Soil permeability factor:

1×10^{-8} m/s

Infiltration and retention

capacity: 21,000 m³ swales, 16,000 m³ trenches

Release rate: 3 l/s/ha

Stormwater event: 5 years



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Toppilansaari, Oulu, Finland

Client: City of Oulu

Landscape design:

Atelier Dreiseitl

Water art features:

Herbert Dreiseitl

Architect:

Planning Department,

City of Oulu

Planning and design:

2003–2004

Construction: 2004–2005

Total area: 75,000 m²

Residents: 3,000

Impermeable area: 33 %

Discharge in stream:

Existing wetland/ocean

Annual rainfall:

460 mm (half snow)

Rainfall intensity: $r_{15(1)}$

5 year storm event, 180 min.,

32 l/s/ha

Drainage method:

Drainage swale and ditch, infiltration swale

Soil permeability factor:

10^{-5} m/s, infiltration velocity of 0.5 l/s/100 m²

Infiltration and retention

area: 1,200 m² infiltration area, 1,000 m² retention area

Stormwater event: 5 years

Cleansing biotope area:

approx. 30 m²



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Sewage treatment plant

Client: Treuhandverein

Würme: e.V.

Design: Atelier Dreiseitl

Planning and design: 1993

Construction: 1994

Size: 900 m²

Purification biotope:

600 m² surface area

Site area: 37 ha

Residents: 80

System capacity: 100 people



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Redesign of Volme river and town hall

Client: Stadt Hagen

Water design:

Herbert Dreiseitl

Landscape design:

Atelier Dreiseitl

Architects: RKW Architects

Hydraulics: Thomas Nill

Planning bridge:

PASD Feldmeier & Wrede

Planning and design:

2000–2001

Construction: 2001–2004

Length: Volme 800 m

Width: Volme 25 m

Total water volume:

Mean rate = 5.67 m³/s

Maximum rate 100 = 249.70 m³/s

Embankment redesign:

12,000 m²



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City Hall, Chicago, USA

Client: City of Chicago

Landscape design:

Atelier Dreiseitl/

Conservation Design Forum

Architects:

William McDonough &

Partners

Planning and design:

1999–2000

Construction: 2000–2001

Size:

Roof area = 3,600 m²,

planted area: 2,200 m²