CASE STUDY 1

Renaissance Park
Chattanooga, TN

project area
23.5 acres

watershed area
175 acres

year
2006

cost
$7.80/SF ($8 million total)

amenities
paths/trails
picnic areas
parking areas
overlooks
boardwalks
public art

environment
urban downtown, riverfront

notes
Contaminated soil on site was remediated and re-used in landforms on site
Site includes large parking area and several buildings (wetland park area approx 15 acres)
Wetland cleans stormwater before draining to Tennessee River
CASE STUDY 2

CT Water Treatment Facility
New Haven, CT

project area
14 acres

watershed area
14 acres

year
2001-2005

cost
$5/SF (~$3 million total)

amenities
paths/trails
bridges
scenic overlook
native, low maintenance planting
art venue on site

environment
suburban

notes
Wetland treats stormwater from site only, not from the adjacent area

The building, mostly below grade, is a municipal water treatment facility

Excavated fill from the wetlands/ponds construction reused on site for earth works and overlooks

Landscape design is a “microcosm” of the surrounding watershed from mountain to reservoir
CASE STUDY 3

Duke Stormwater Pond
Durham, NC

project area
6 acre pond, 12 acre site

watershed area
265 acres

year
2010-2015

cost
$22/SF ($11.5 million total)

amenities
pavilion
boardwalk
paths/trails
amphitheater
overlook
bridge

environment
urban, university campus

notes
The design is a stormwater retention pond with a wetland edge

Site harvested timber was re-used on site for structures, decking, handrails, mulch
CASE STUDY 4

Pacific Commons
Fremont, CA

project area
16 acres

watershed area
514 acres

year
2005-2009

budget
not found

amenities
paths/trails
interpretive and wayfinding signage
overlooks
picnic areas
seating areas

environment
estuary, mixed-use development

notes
Trails on park site connect to regional trail system
Larger detention areas are combined with interconnected wetland areas to treat stormwater run-off
Wetland graded to support a variety of freshwater marsh habitat types based on water depth
CASE STUDY 5

Tanner Springs Park
Portland, OR

project area
0.92 acres

watershed area
not found

year
2005

budget
not found

amenities
paths/trails
bridges
boardwalk
seating areas

environment
urban

notes
Park occupies one downtown block in Portland, OR

Site design elements reference rail yard and industrial history of neighborhood

Park designed with intensive community participation process and stakeholder steering group
CASE STUDY 6

Menomonee River Valley Redevelopment
Milwaukee, WI

**project area**
140 acres redevelopment site, 60 acres park

**watershed area**
not found

**year**
Phase 1 completed 2006

**budget**
$40 million for development sites and remediation, $9 million for stormwater park

**amenities**
paths/trails
bridges
boardwalk
seating areas
overlooks
play fields

**environment**
urban, transportation

**notes**
Wetland parks are part of a redevelopment of the city’s former industrial and rail hub

Existing elements such as smoke stacks from former industrial buildings were reused on site.

Site trails connect to regional trail system
CASE STUDY 7
The Dell
Charlottesville, VA

project area
11 acres

watershed area
not found

year
1999-2004

budget
$500,000-1,000,000

amenities
paths/trails
seating areas
bridges
picnic areas
playing fields

environment
urban, university campus

notes
Manages runoff from up to two-year storm events
Excess runoff beyond detention pond capacity is diverted to an additional treatment facility
Project includes restoration of the stream that feeds the detention pond
Monitoring systems have measured water quality improvements including reductions in sediment and nutrients downstream
PROJECT SITE SUMMARY

South Ellerbe Creek Stormwater Site
Durham, NC

project area
9.2 acres

watershed area
510 acres

year
design and permitting 2016-2019
construction 2019-2020

potential amenities (from public input survey)
parking area
overlook
access to trails
boardwalk
seating areas
picnic areas
educational signage
public art
safety features (ex. signage)
natural areas

environment
urban downtown, residential

Why is This Project Site Unique?