

# Engineered wetlands at Yangchen Lake East project

## Lotus Island Ecological Treatment Wetland Yangchen Lake, Suzhou East Project

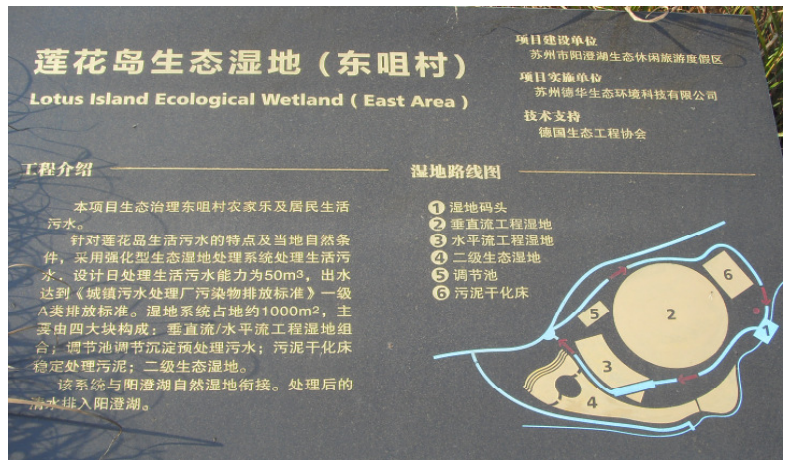
Owner:  
Local government,  
Jiangsu province, China

Domestic wastewater treatment from households and tourist restaurants.

Start of operation: 2009

Treatment efficiency:

Parameter (mg/l)	COD	BOD5	TN	NH-3N
Inflow	178	63	91	54
Outflow ST	43	10	38	28
Outflow VF	14	1	20	3
Outflow HF	15	1	20	1
Pond	18	2	16	0.5
Outflow (riparian wetland)	28	5	6	0.7
Efficiency (%)	84	93	94	99



Design:

The sewage treatment plant consists of a wharf (1), a vertical subsurface flow soil filter (2), a horizontal filter (3), a polishing lagoon (4), a septic tank (5) and a reed bed sludge treatment system (6).

*\*On the picture above you find the corresponding numbers*

Capacity: 50 m<sup>3</sup>/d

Vertical subsurface flow constructed wetland: 490 m<sup>2</sup>

Horizontal subsurface flow constructed wetland: 100 m<sup>2</sup>

Polishing pond: 400 m<sup>2</sup>

Sewage sludge reed bed: 100 m<sup>2</sup>



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