

# eco-sewage treatment PLant, PLanted reed FILtration BEDS IN CHAUVRY(95)

URBAN PLANNING AND LANDSCAPING: DEPOLLUTED WATER TREATMENT PLANT, HQE® APPROACH

<b>Client</b>	Syndicat intercommunal d'assainissement de la région d'Enghien-les-Bains SIARE
<b>Location</b>	CHAUVRY (95)
<b>Project</b>	Landscape transformation of an old agricultural area into a sewage treatment plant.
<b>Mission</b>	Design Architect and Landscaper AR ARCHITECTES - AMODIAG (BEY)
<b>Surface area</b>	Site: 11834 m <sup>2</sup> Building: 36 m <sup>2</sup>
<b>Cost</b>	900 k €
<b>Project Phase</b>	Technical Design studies in progress



Bioclimatic architecture in timber frame, stone cladding and tiles.



Urban integration of the project into the protected and classified site

The objective of the project is an eco-sewage treatment plant composed by planted reeds filtration beds, with a rustic technical building of 36m<sup>2</sup> inspired by the local architecture (simple shape, gable roof, natural stone cladding, light colors). The project is composed by two basins excavated ponds and planted ponds with reeds and other local water plants.

The location of the eco-sewage treatment plant is justified by its proximity to houses as well as its closeness to the watercourse that allows the outflow of the depolluted water treatment plant.

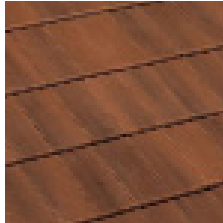
We promote sustainable techniques that minimize their impact on the environnement:

- conservation of existing trees
- small construction of a technical building
- low impact operating coasts: planted reed filtration beds

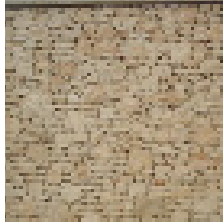




Epicea timber frame



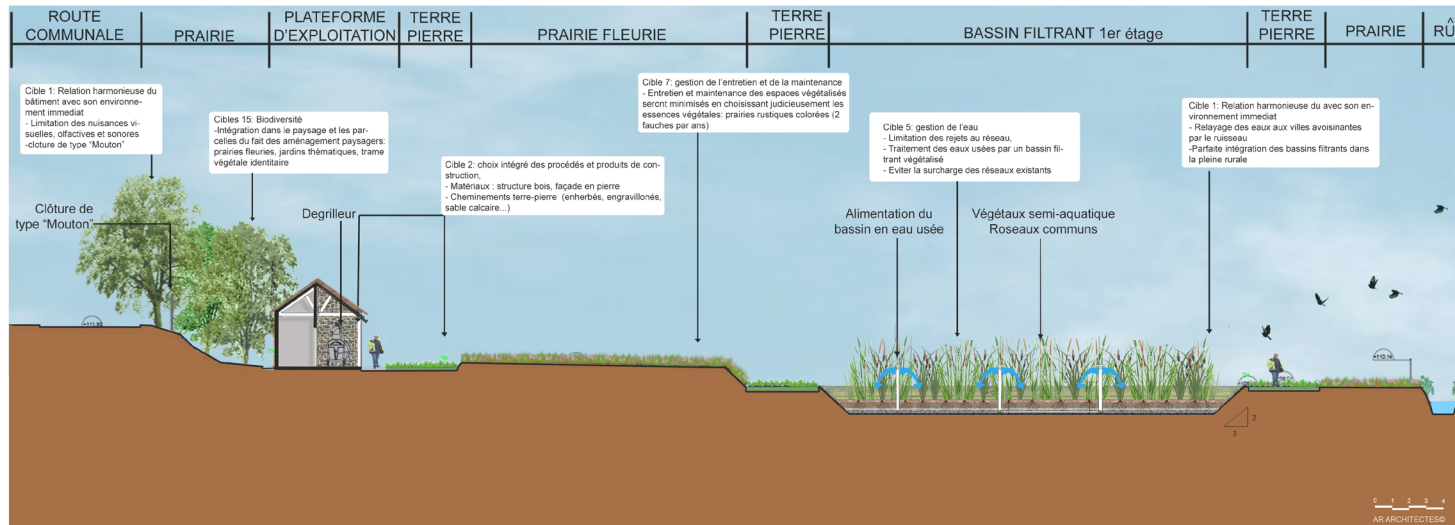
old flat tile



Natural stone  
eco-materials



Landscaping master plan



HQE® Section

### HQE® targets

#### Target 1 : HARMONIOUS RELATION OF THE BUILDINGS WITH THEIR IMMEDIATE ENVIRONMENT

- Relaying waters to nearby cities by the creek.
- Perfect integration of the filtering ponds into the rural plain.
- Low visual, olfactory and sound impacts on the environment.

#### Target 2 : INTEGRATED CHOICES OF PRODUCTS, SYSTEMS AND PROCEDURE OF CONSTRUCTION

- Construction materials: timber frame, natural stone cladding.
- ground-stone road (grassed, engraved, sand limestone).

#### Target 5 : WATER MANAGEMENT

- Sewage water treatment by filtering ponds.
- Rain water in infiltrated into the earth.
- The sewage treatment will be by two basins planted reeds filtration beds.
- These basins will be used to avoid overloading existing water system.

#### Target 7: OPERATING MANAGEMENT

- Operating of planted areas are minimized. Colorful rustic meadows require only two mows per year.

#### Target 15: BIODIVERSITY

- The landscape of the sewage treatment plant is integrated in the context local and the plots with the flowering meadows, thematic gardens, and locals plants.
- Sewage water treatment plant by reed filtration

