

Washing of household waste bins

Washing water treatment plant – GONFARON (83)

During the creation of its washing area for household waste bins, the waste recovery cluster of the Communauté de Communes Cœur du Var integrated a section on water treatment into its call to tender. Saint Dizier Environnement therefore developed a process making it possible to depollute and reuse after treatment of rainwater and washing water inside and outside of the bins.



APPRAISAL

The constraints of the site (minimum encumbrance on the ground...) and the physical-chemical characteristics of the rainwater and of the washing water of the bins conditioned the choice of a complete treatment system comprised primarily of buried structures.

DESIGN

Strong points of the installations :

- Complete treatment system dimensioned for a flow rate of 2 m³ /h: sludge trap/oil interceptor, biological treatment unit with lifting, settling, filtration and disinfection structure
- Optimisation of sludge management: setting up of a storage silo in a bi-compartmentalised tank
- Recycling of water: the treated water is stored in the 2nd chamber of the bi-compartmentalised tank
- Accessibility: total access to the lamellar settler

BUILDING

Manufacture of the treatment structures :

- Materials that resist aggressive effluents: composite and stainless steel
- Made in France in our plants in Nîmes and Saint Dizier
- Reliability: assembly and tests for equipment in the workshop

Dimensions :

- Sludge trap/oil interceptor : Ø 1.30 x L 2.79 m
- Biological unit with lifting : Ø 1.85 x L 5.50 m
- Settling-filtration-disinfection unit : L 2.63 x l 1.33 x H 1.77 m
- Treated sludge / water bi-compartmentalised storage tank : Ø 2.50 x L 5.30 m

FOLLOW-UP

A single control cabinet controls the entire installation. The treatment system is provided with various devices (presence of oil, clogging of the filters, high sludge level...) which inform the operator of any malfunction and as such facilitates management.

Saint Dizier environnement

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Client	Communauté de Commune Cœur du Var
Contractor	BETA Ingénierie Saint Maxime
Company	VBTP Fréjus



Settling-filtration-disinfection unit



Main control command



Recycled water quality