

PEPSI CO. - Dragon, Bucharest, Romania

Refurbishment of wastewater treatment plant



WABAG Water Services SRL was awarded the contract for the refurbishment of the existing Dragon WWTP for the production facility for beverages in Bucharest for PEPSI Co. International.

The project comprised the complete operational revision of

the existing process philosophy from CAS to Moving Bed Biology, equipment replacement and refurbishment of all existing civil structures.

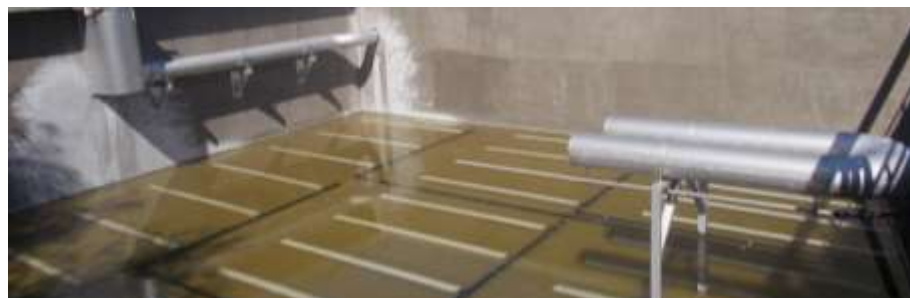
The mechanical/biological WWTP, based on the WABAG FLUOPUR® technology, has a capacity of

2,550 m³/d. The modernisation works have been completed end of 2017.

After commissioning, WABAG has taken also responsibility for the plant operations till September 2020.

Features

- Modernisation of industrial effluent treatment plant based on the FLUOPUR® process
- Capacity: 2,550 m³/d
- Turnkey completion
- Operations & Maintenance



Client

PEPSI Co. International

Type of contract

EPC – turnkey execution
O&M – Operation & Maintenance

Award of contract

November 2016

Commissioning

2017

Capacity

2,550 m³/d

Wastewater

Effluents from beverage production

Technology

Moving bed biology - FLUOPUR[®] process (IFAS)

Scope

Design, engineering, supply, installation, commissioning;

O&M: 01/2018-09/2020

Main Components/Process Steps

- Mechanical pre-treatment
- ph control
- Biological treatment (IFAS process)
- Sludge dewatering (new)

SCOPE

- Renewal of technical equipment
- Rehabilitation of clarifiers
- Sludge dewatering



The new design was successfully tested on the spot for several months using a pilot plant prior to full-scale installation.



Parameter Wastewater	Units	Limits
COD	mg O ₂ /l	≤ 125
BOD ₅	mgO ₂ /l	≤ 25
TP	mg/l	≤ 5
Phenol index	mg/l	≤ 0,3
Total N	mg/l	≤ 15

WABAG Water Services SRL

Dimitrie Pompeiu Blv., No 6E
13th Floor, 2nd District
20337 Bucharest
Romania

Tel.: +40 371 604 200
Fax: +40 371 604 300

www.wabag.com