

## Case history brief:

Location:	Sisak, Croatia
Application:	Final effluent treatment
Capacity:	240 m <sup>3</sup> /hr
Clarification:	O&G, SST Removal
Chemicals:	Coagulant (PAC)
Installation:	Revamping, 2013

## Case history features:

### The problem.

The customer decided to move an existing KWI unit SAF 20 BP, after almost 20 years of successful operation in Rijeka refinery, to Sisak refinery; here the equipment had to be used for final effluent treatment on existing WWTP.

### The solution.

For this operation KWI supplied spare parts, offered assistance during reassembling of the unit, performed all the operating tests, followed start up and training for personnel.

Raw water:		Outcoming water:	
Flow:	190 m <sup>3</sup> /hr		
Flow (max):	240 mg/l		
pH:	8.36	pH:	8.4
COD:	126 mg/l	COD:	51 mg/l
Oils:	12,3 mg/l	Oils:	4 mg/l
TSS:	43.67 mg/l	TSS:	6.1 mg/l

## NEW PLANT SETUP



### Buffer tank:

Two effluents are mixed together in the buffer tank. One is coming from existing biological plant and the second is coming from old separator.



### Treatment on SAF 20 BP:

The wastewater from the buffer tank is pumped in the SAF 20 BP for the final treatment.

Before entering SAF BP into the effluent is added coagulant (PAC) for chemical treatment.