

CASE HISTORY

SEMICONDUCTOR
SOLAR
PHARMA
POWER GENERATION
FOOD & BEVERAGE
PULP AND PAPER
CHEMICAL
OIL AND GAS
MINING
AEROSPACE AND TRANSPORT
METAL FINISHING
MUNICIPAL



An **aquarion** Group Company

TOVEKO Filters

Sewage Treatment at Jakkvik Ski Resort, Sweden



Background

Jäkkvik is a Lappish community situated above the Arctic Circle. The population in the central village varies from 100 to 1000 people depending on the season. In the spring, the sewage flow varies from 50 m³/d to 400 m³/d. and, of course the plant must maintain the treated water quality throughout the flow range.

Plant design

The design of this plant is similar to the one at Hedåker except that it has a bar screen as the initial stage and a screw press for sludge dewatering. A Model S-300 Toveko filter is used for the tertiary treatment stage.

Results (24 hour average values of effluent, in mg/l)

DATE	BOD ₇	P _{tot}	SS	pH
12 Feb 91	8	0,17	4	7,3
04 Jun 91	19	0,36	37	7,8
08 Oct 91	2	0,09	9	7,1
10 Dec 91	5,0	0,018	6	7,3
11 Feb 92	3,9	0,03	5	7,4
07 Apr 92	27	0,50	15	7,7
15 Jun 92	3,8	0,03	5	7,1
11 Aug 92	7	0,17	9	7,2
02 Dec 92	4,0	0,012	5	6,9
19 Apr 93	39	0,49	27	7,2

Samples taken at random (results in mg/l)

DATE	BOD ₇ in	BOD ₇ out	P _{tot} in	P _{tot} out
16 Feb 93		7,3		0,023
09 Mar 93		28		0,027
19 Apr 93	120	38	5,7	0,48

Government discharge limits for this plant are;

P	0,5 mg/l
BOD ₇	45,0 mg/l
SS	20,0 mg/l

H+E ranks among the world's leading suppliers in the fields of: water & wastewater treatment, and energy efficiency. Based on its global presence, the **H+E GROUP** has completed projects in over 50 countries.



HAGER+ELSÄSSER

An aquarion Group Company

Tel: +44 1403 272772

sales@he-water.co.uk
www.he-water.co.uk