

Bokenäs

A step towards the future







ÅT

- Förpackningar av plast och metall
- Metallföremål som skruvar, muttrar, skruvskåp, stötar, etc.
- Metallföremål av järn och aluminium
- Hushållsavfall
- Skräp
- Skräp
- Skräp

Förpackningar av plast och metall

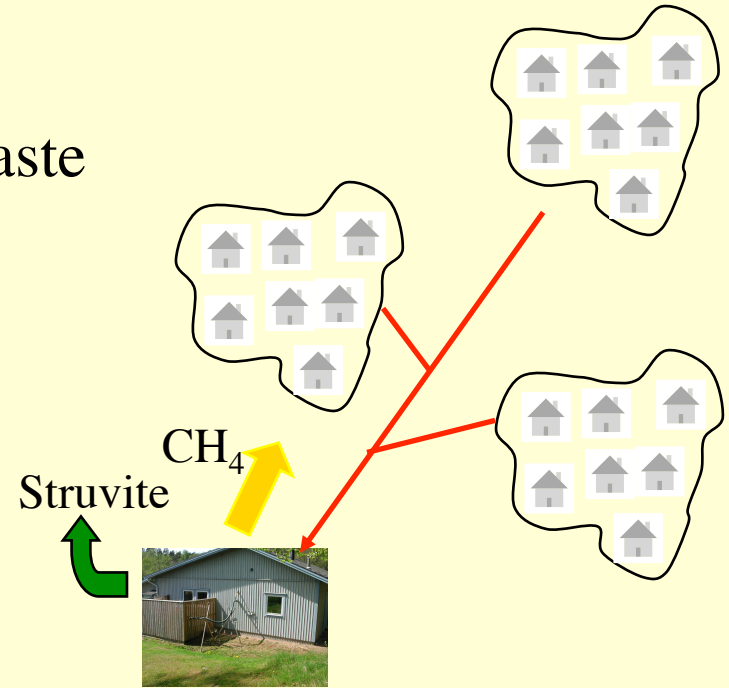
Skrapor och rester av plast och metall

Skrapor och rester av järn och aluminium

Skrapor och rester av andra metaller

Bokenäs

Blackwater and organic household waste

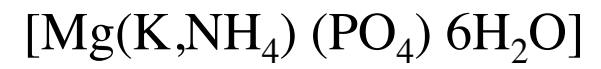




Biogas tank

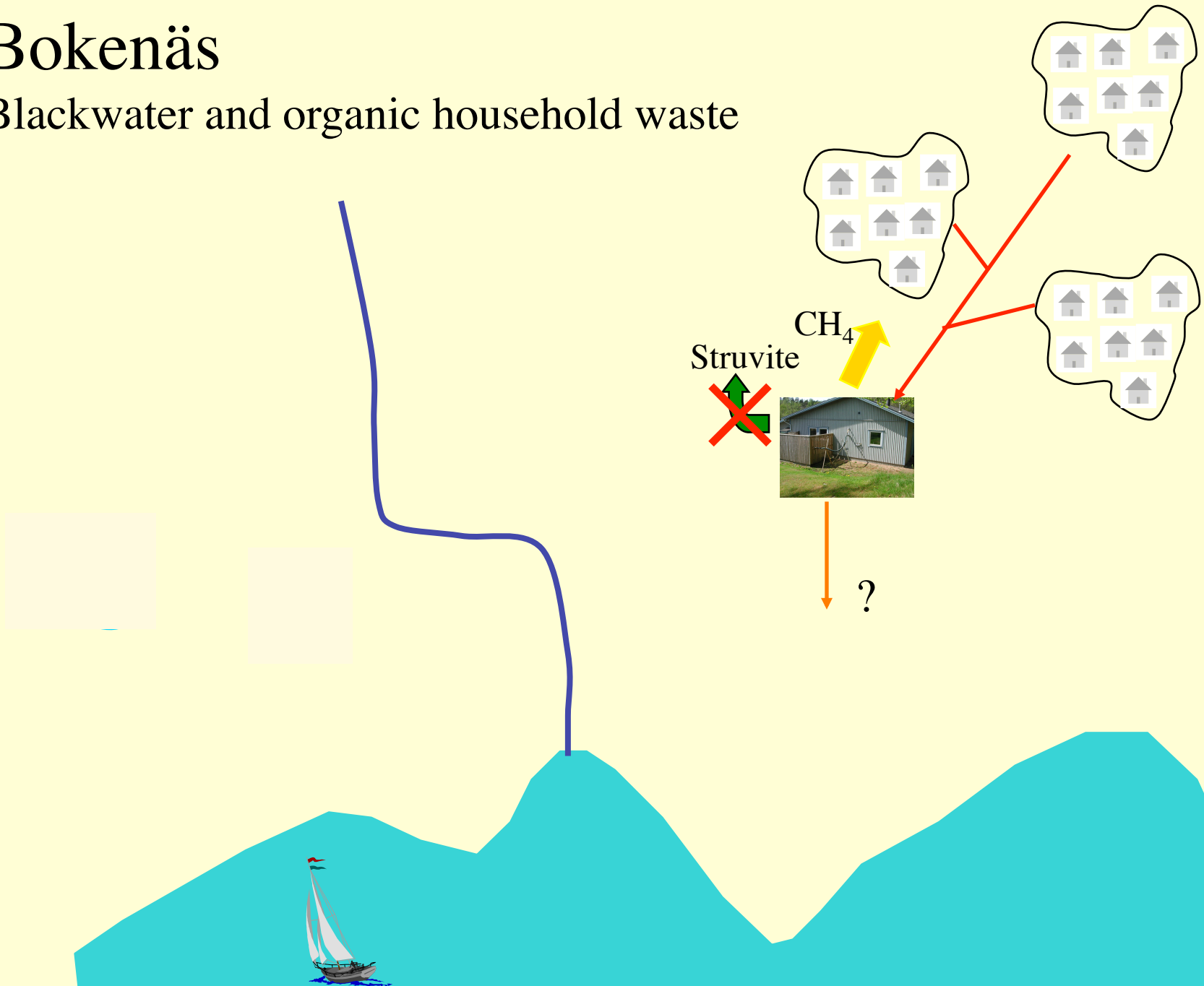


Struvite production



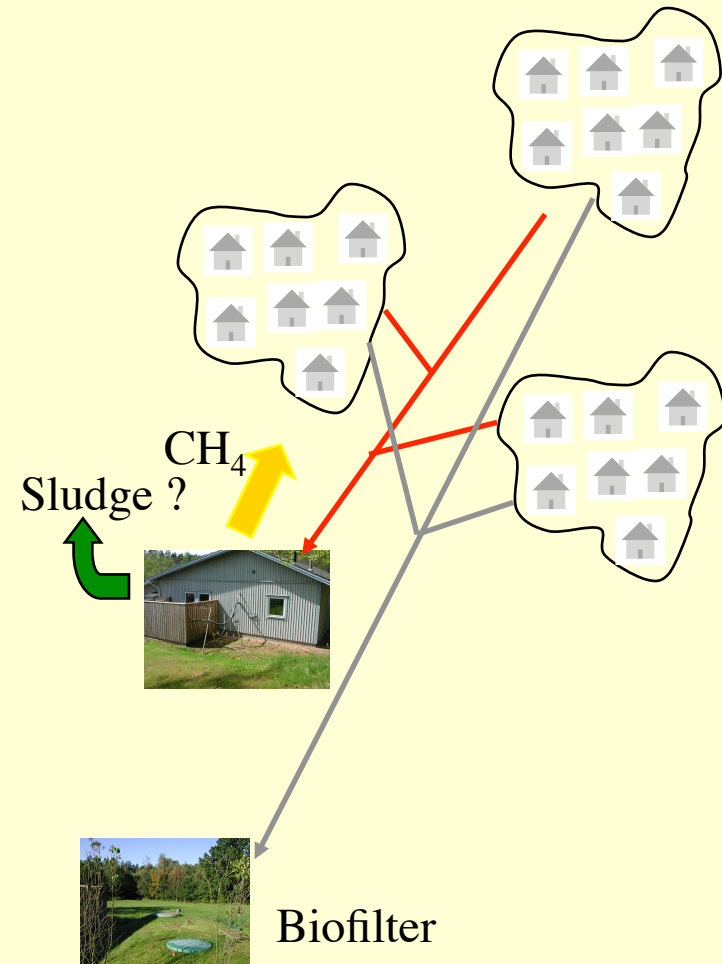
Bokenäs

Blackwater and organic household waste



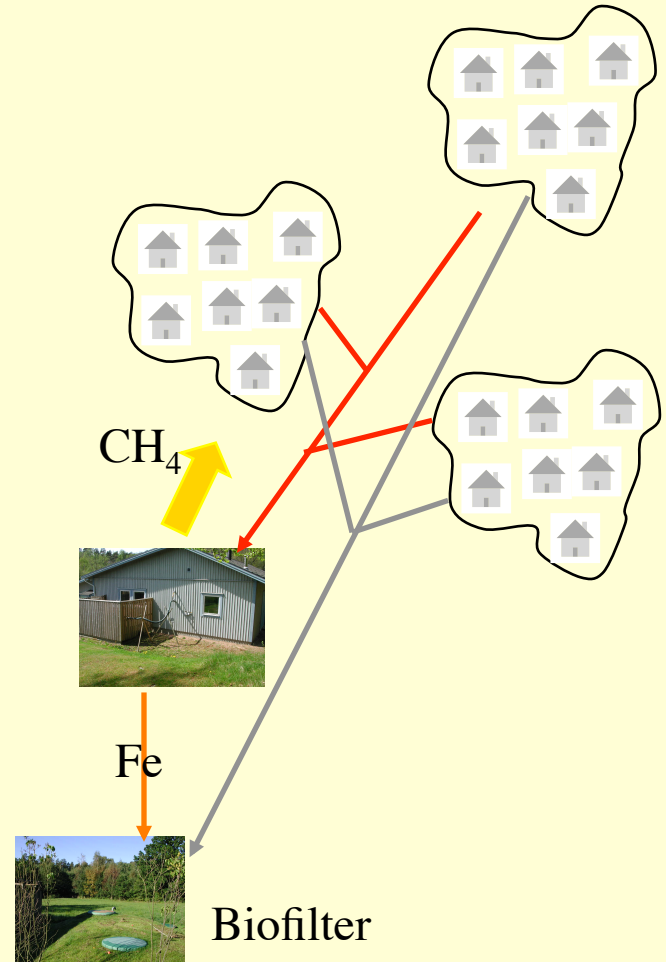
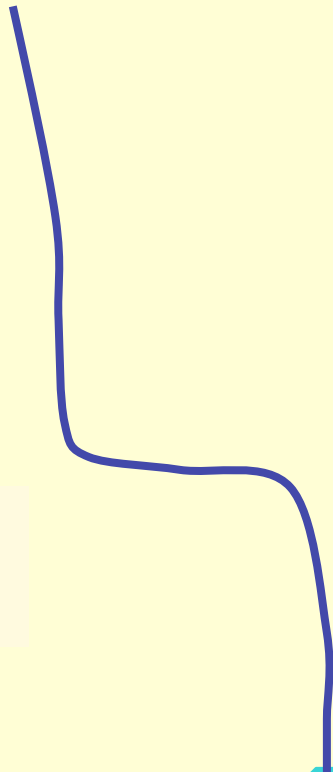
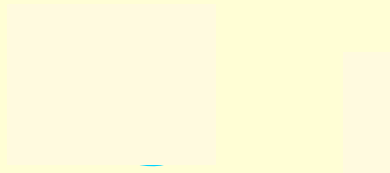
Bokenäs

Black and greywater treatment



Bokenäs

Black and greywater treatment







Biofilter media

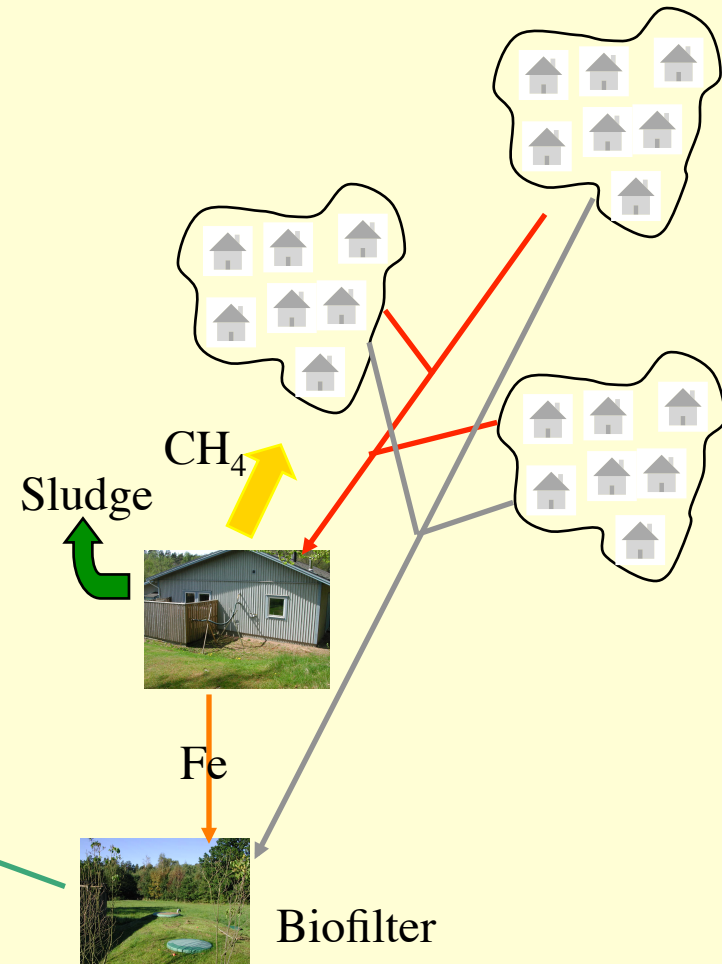
Bokenäs

Black and greywater treatment

Pond no 1



Pond no 2





Pond no 1



Pond no. 2





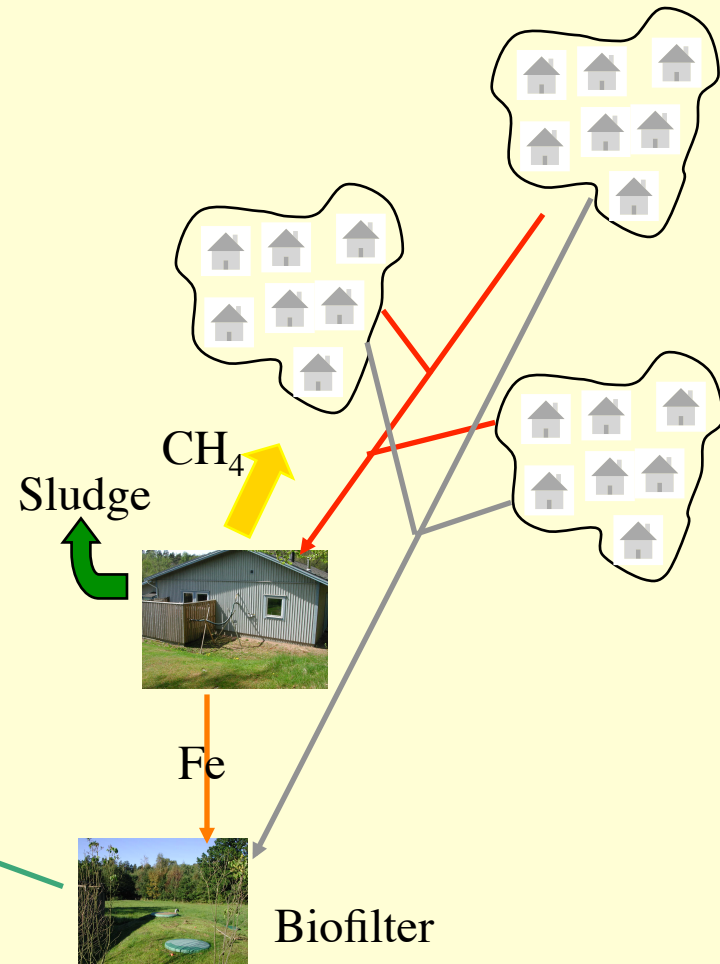
Bokenäs

Black and greywater treatment

Pond no 1

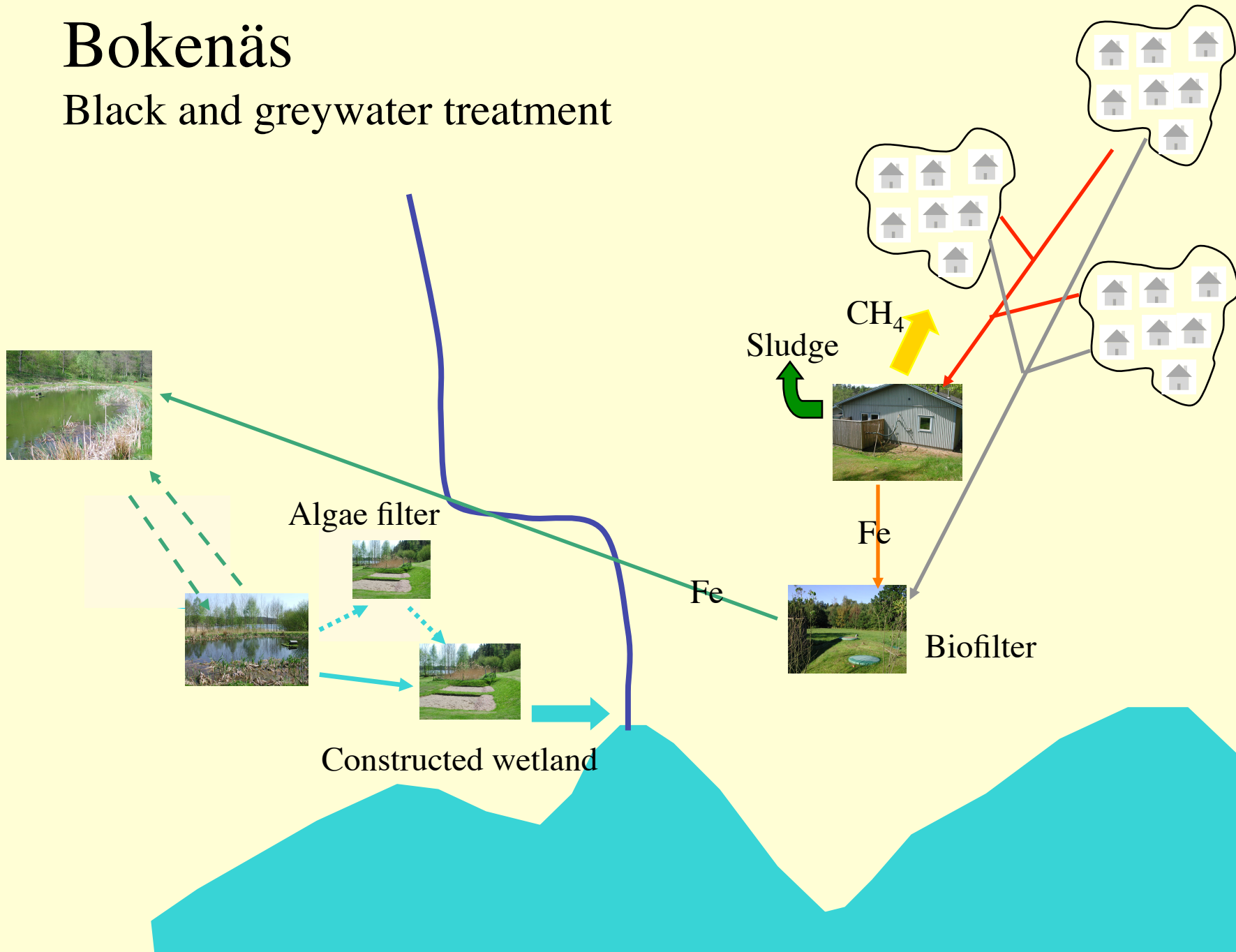


Pond no 2



Bokenäs

Black and greywater treatment

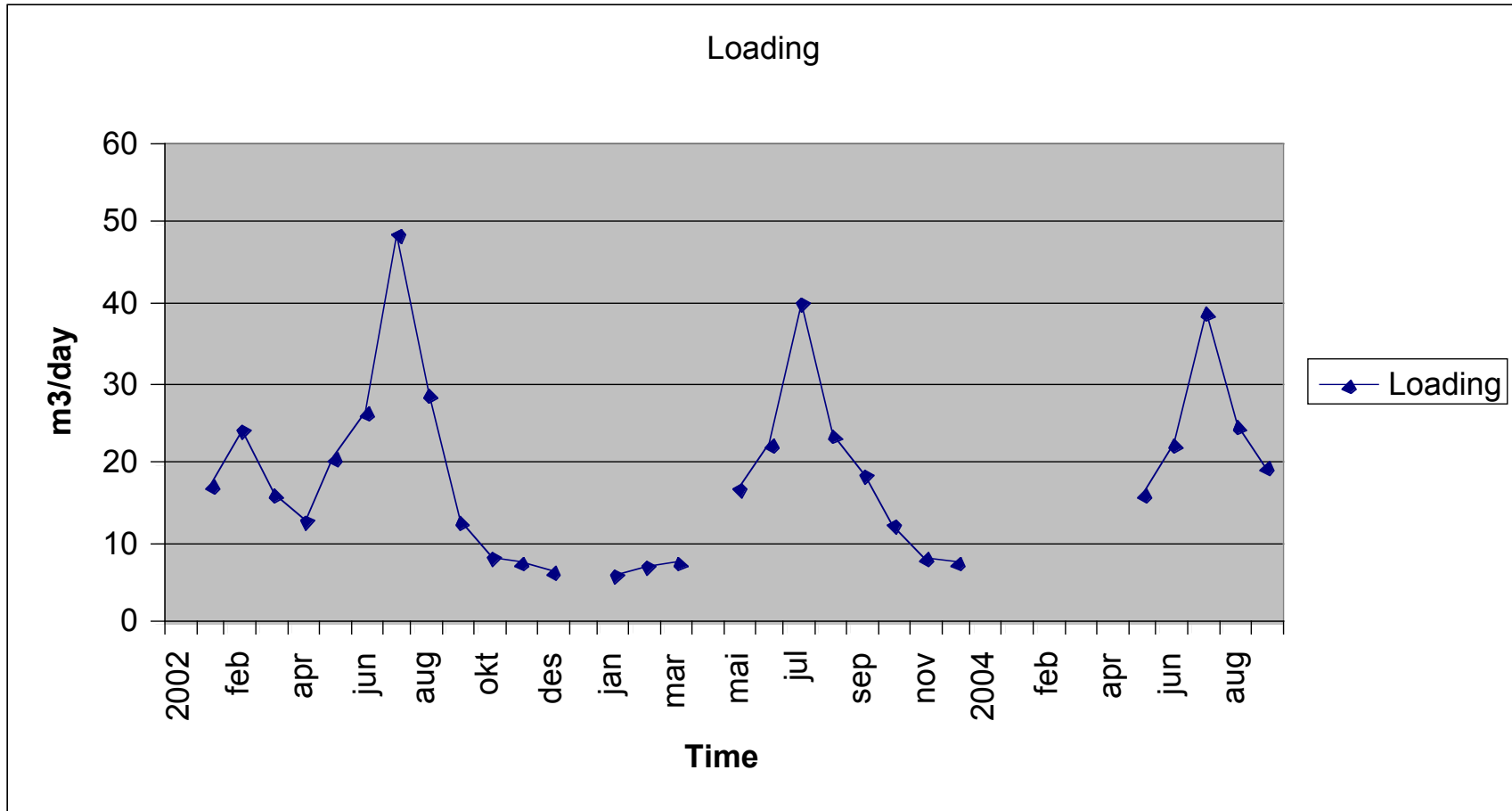




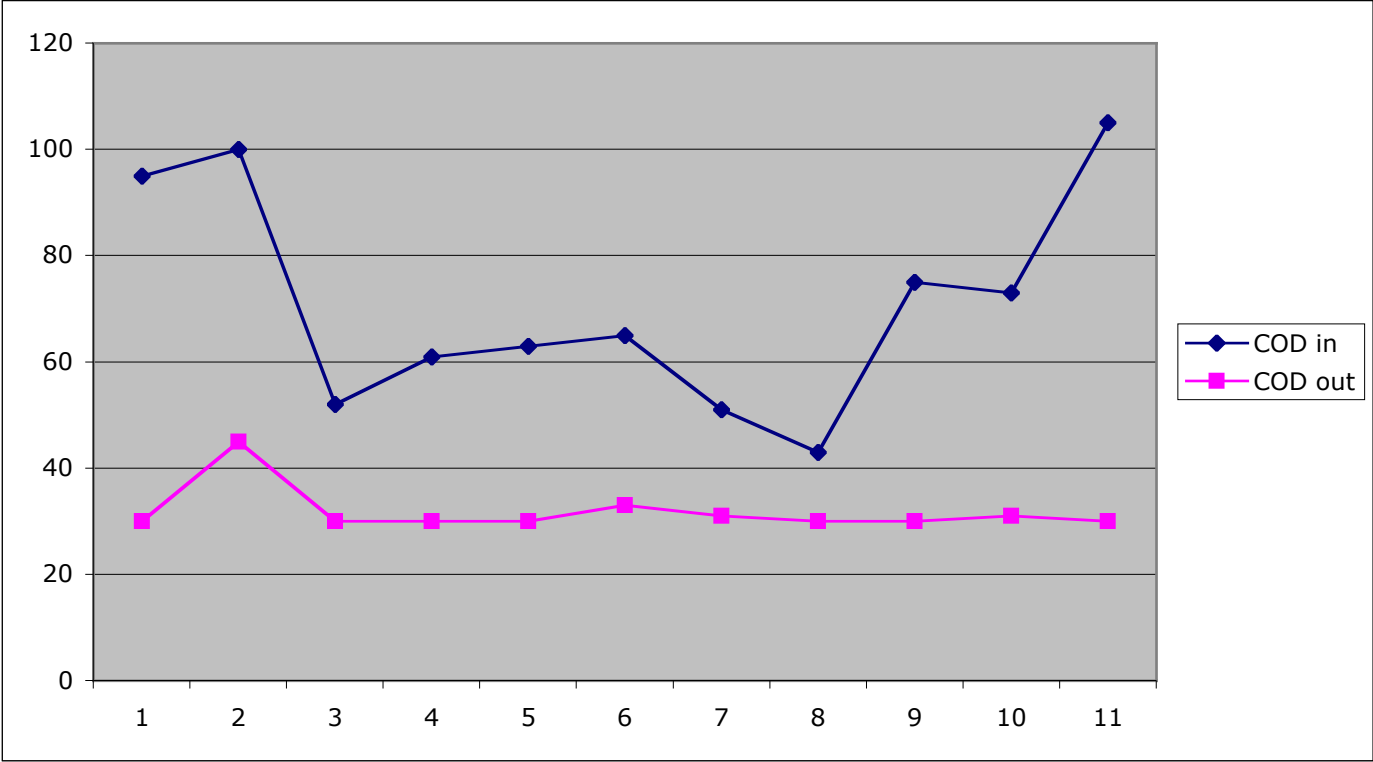




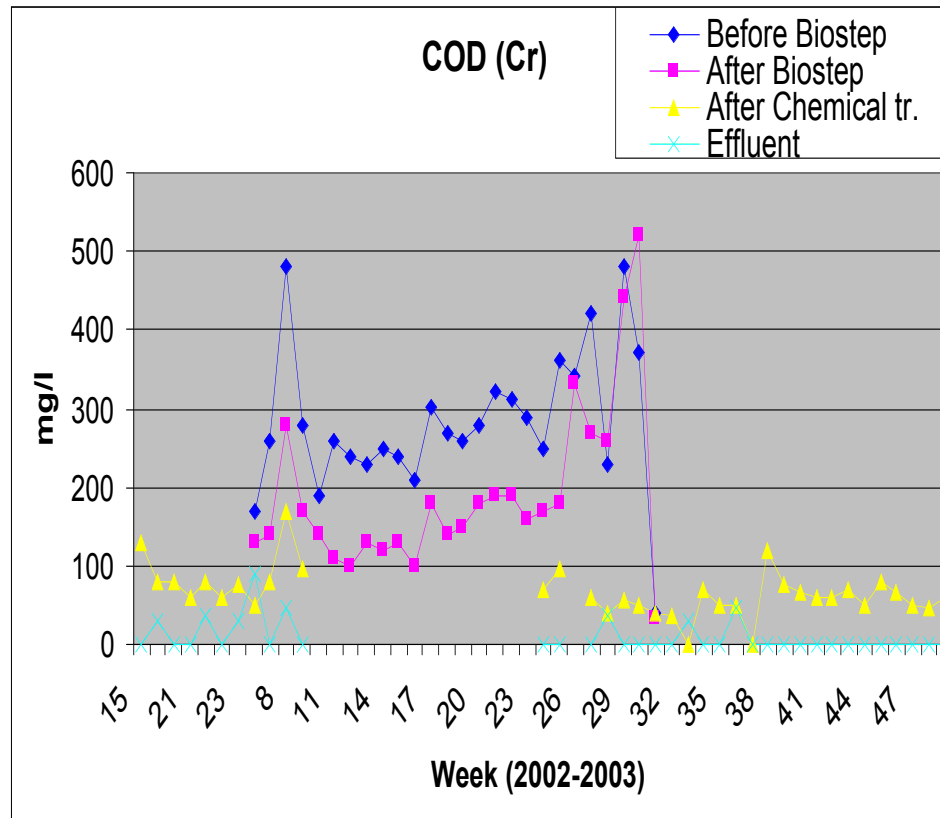
Hydraulic load last three years



COD mg/l

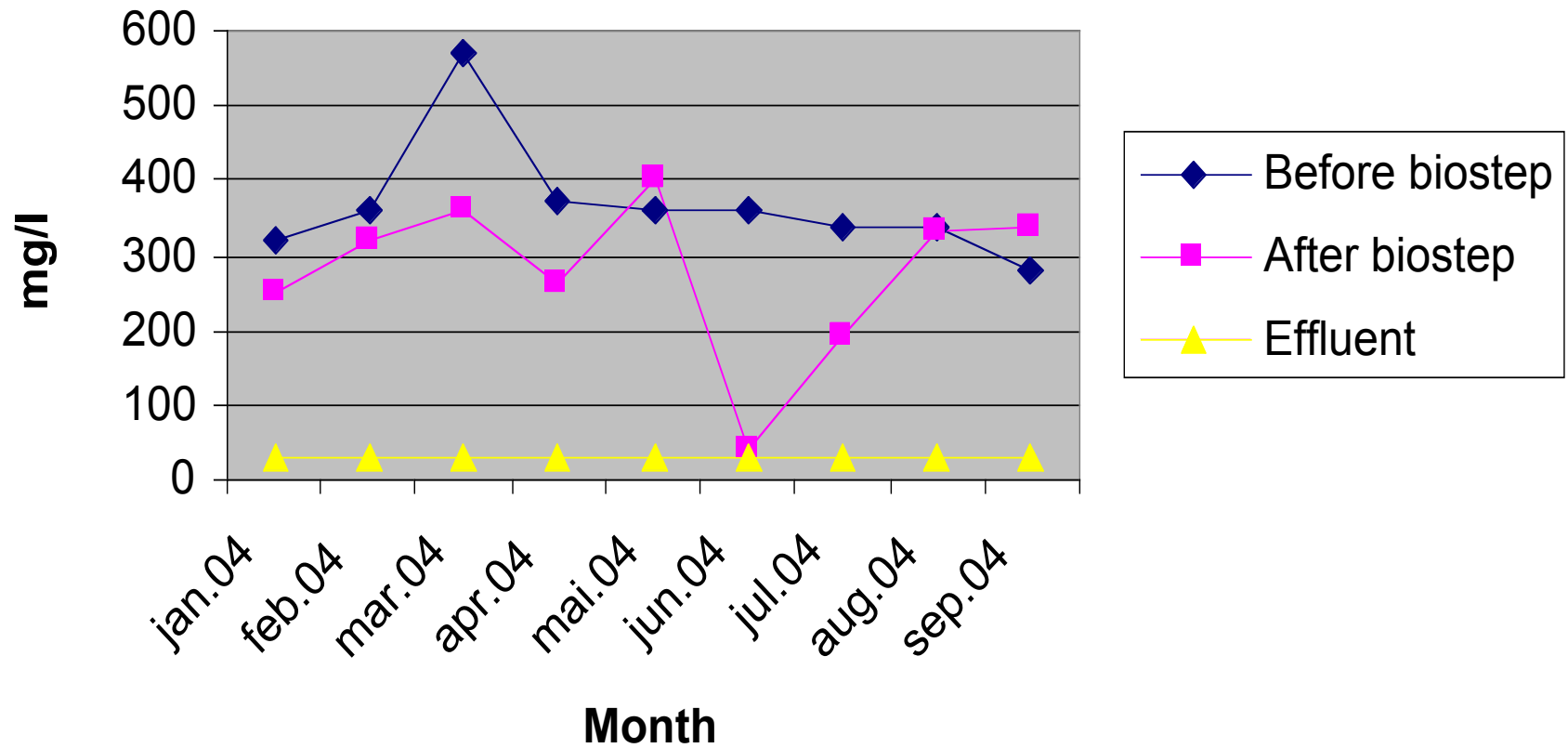


COD

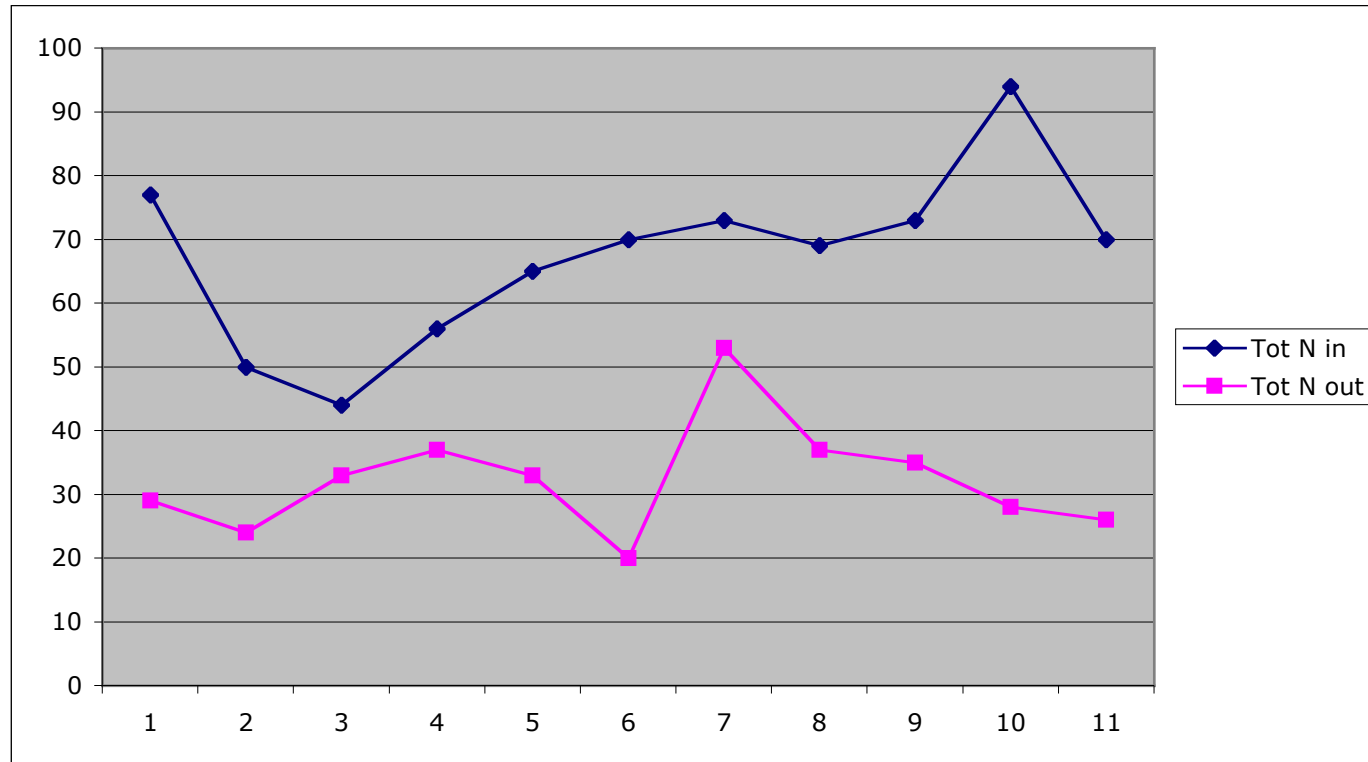


- Removal of COD in the biofilter is between 30 and 60%.
- The removal efficiency should be >60%.

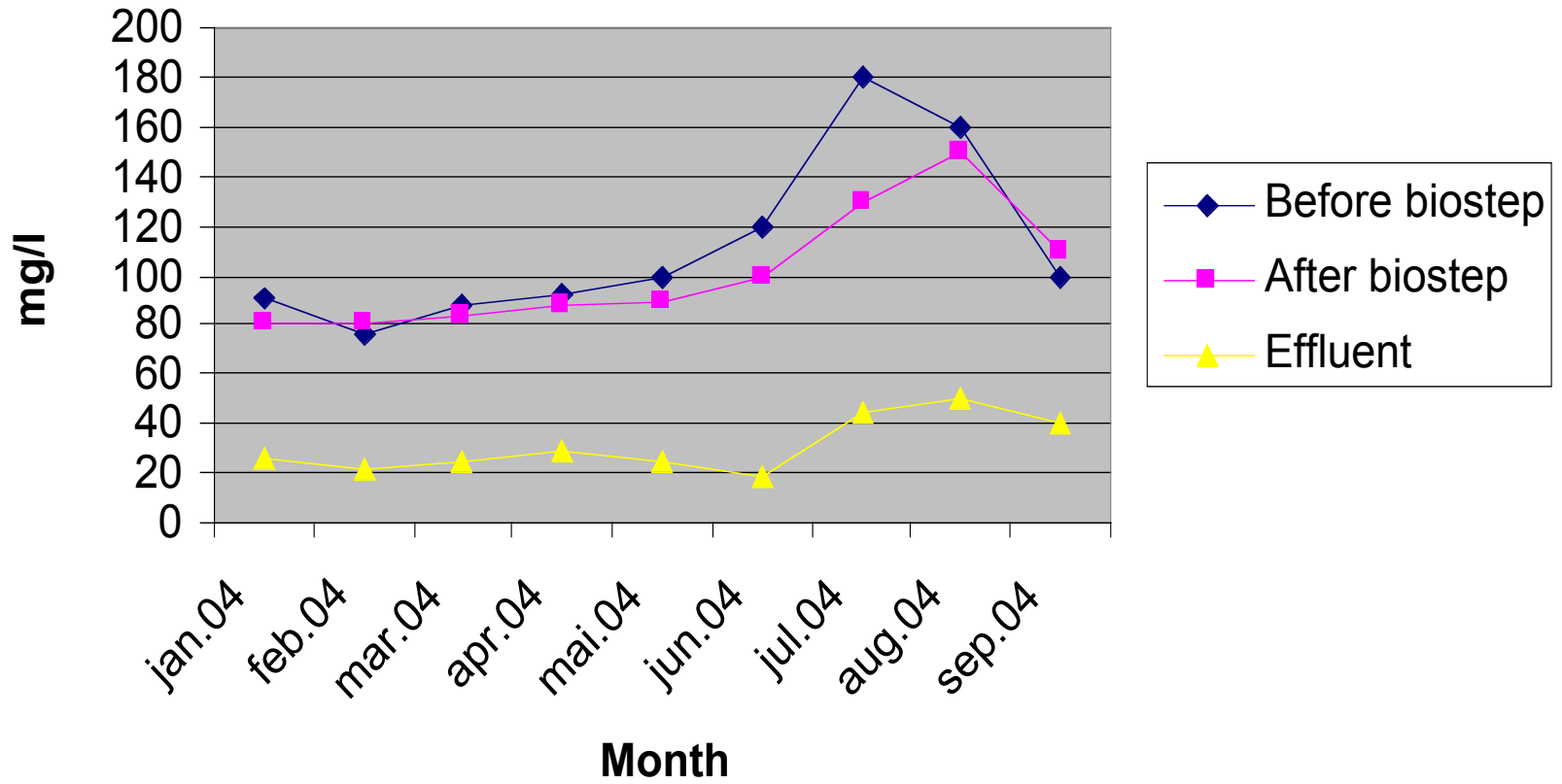
COD



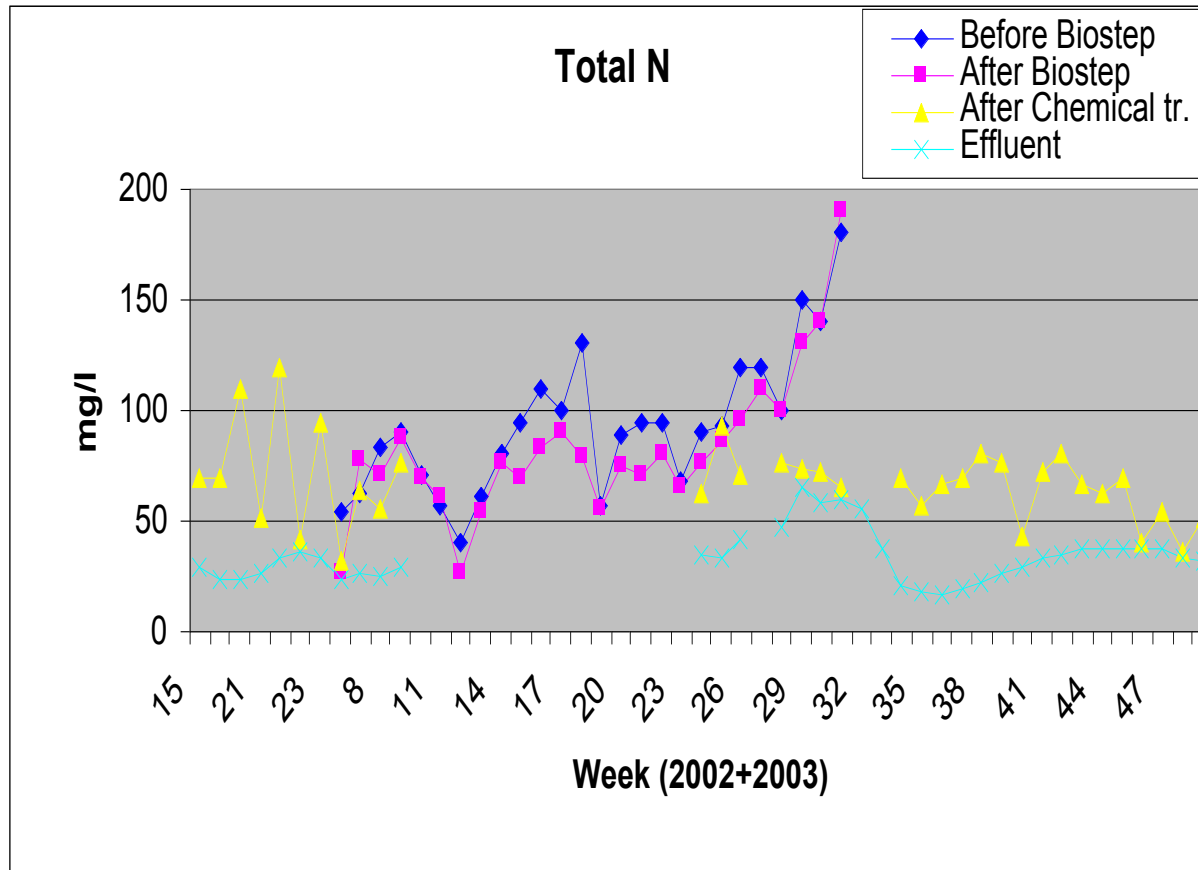
Total N mg/l



Nitrogen

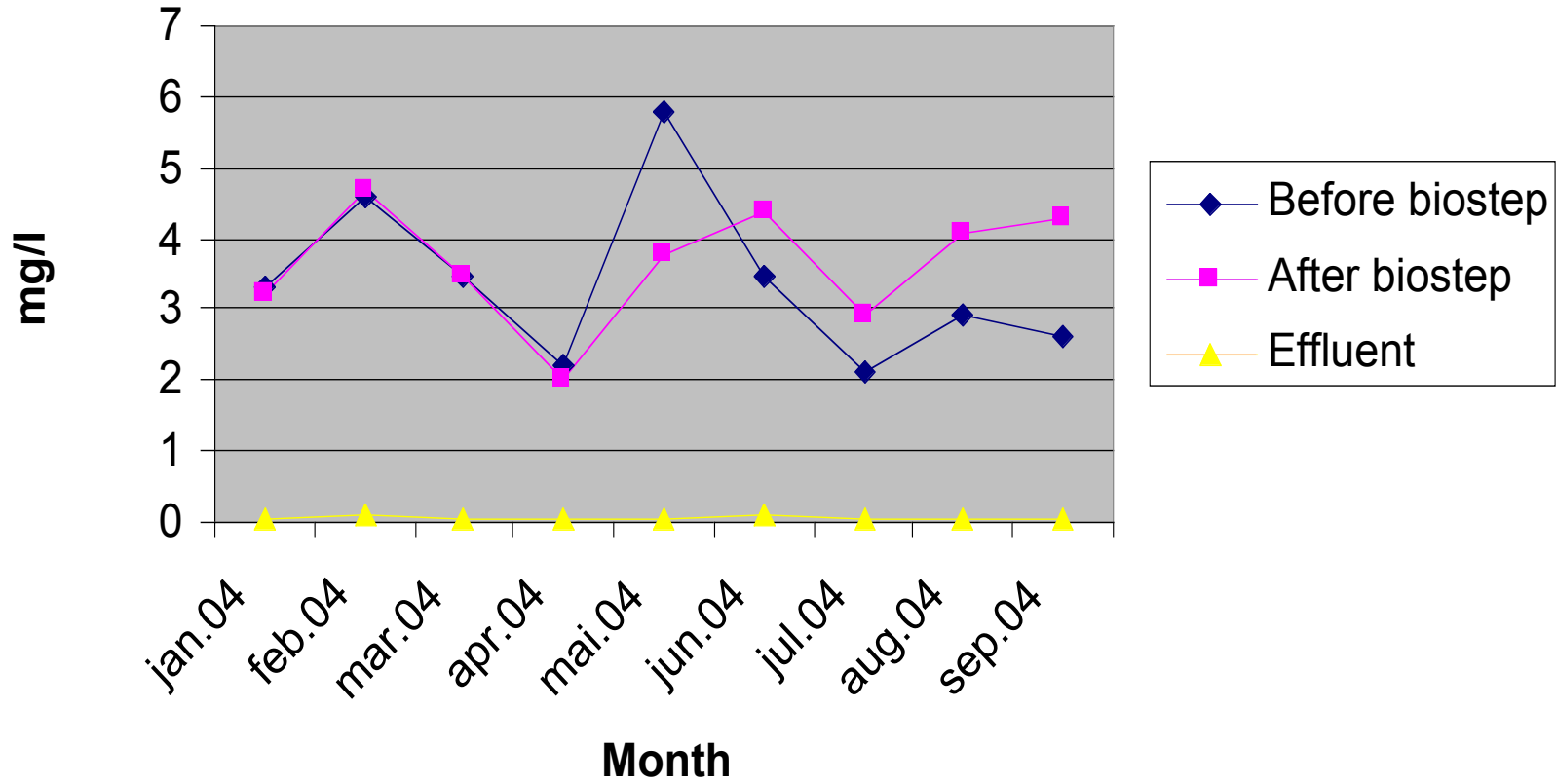


NITROGEN



- The N-content is reduced with between 60 and 70% through the system, which is quite good.
- Drinking water limit <10 mg/l

Phosphorus



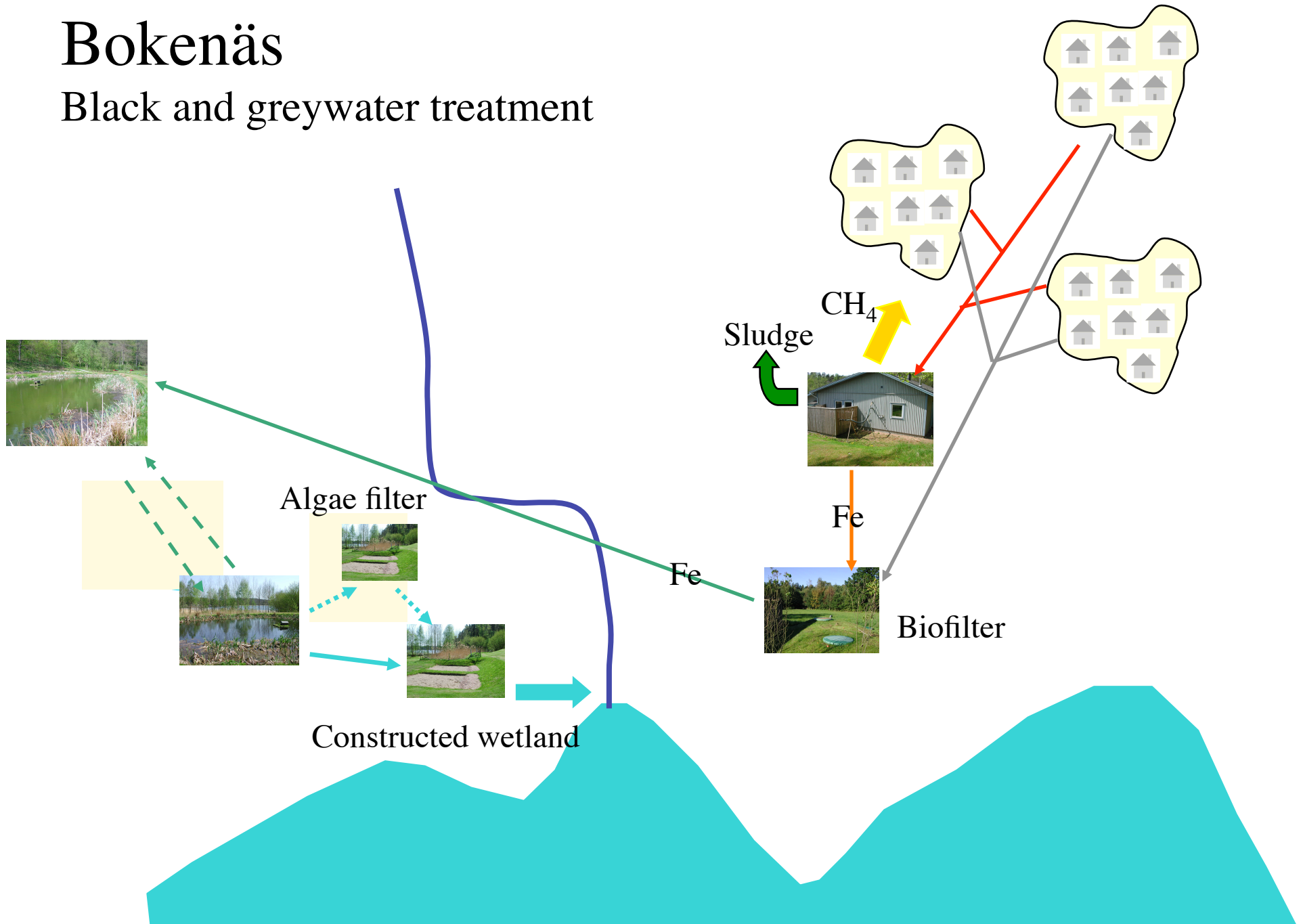
Treatment efficiency - overview

	Before biofilter (mg/l)	Effluent (mg/l)	Treatment efficiency* %
COD	281.92	42.5	85
Tot-N	93.35	33.75	64
Tot-P	3.11	0.02	99

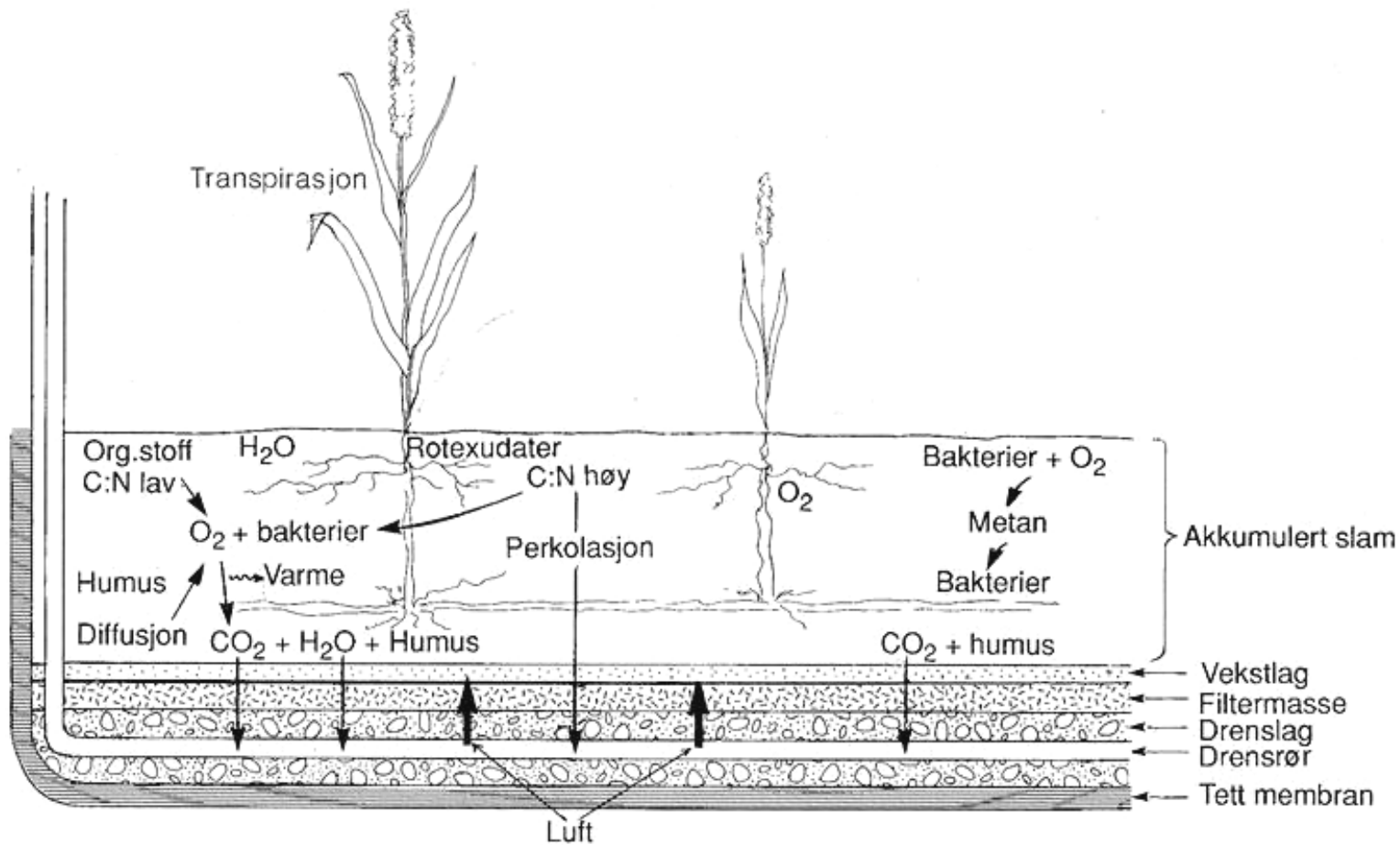
- Very good, especially for COD (85%) and P (99 %)

Bokenäs

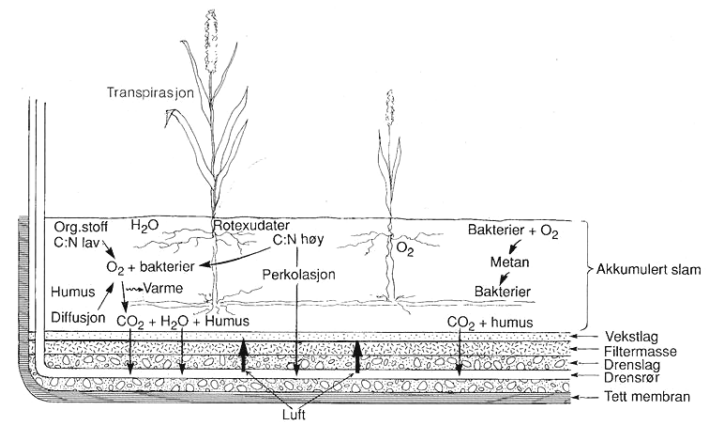
Black and greywater treatment



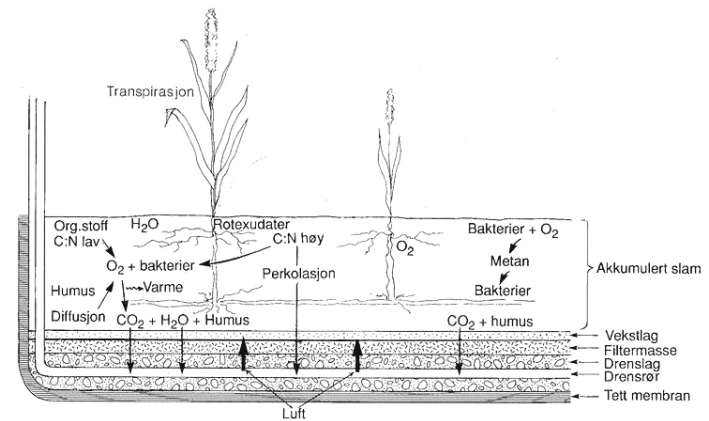
Planted sludge dewatering bed



Sludge dewatering reedbed Tvedestrand Norway



Sludge dewatering reedbed Tvedestrand Norway



Stoff	Tot -P (mg/l)	NH4-N (mg/l)	NO3-N (mg/l)	Tot -N (mg/l)	KOF (mg/l)	SS (g/l)
Slamvann	71	13	0,9	184	3655	3,7-5,0
Rejektvann	0,05	0,18	3,2	6,7	38	0,005
Rensegrad %	99	98		94	99	99

