Water analyses

Jan Žůrková

Kateřina Veselá

The river Vltava
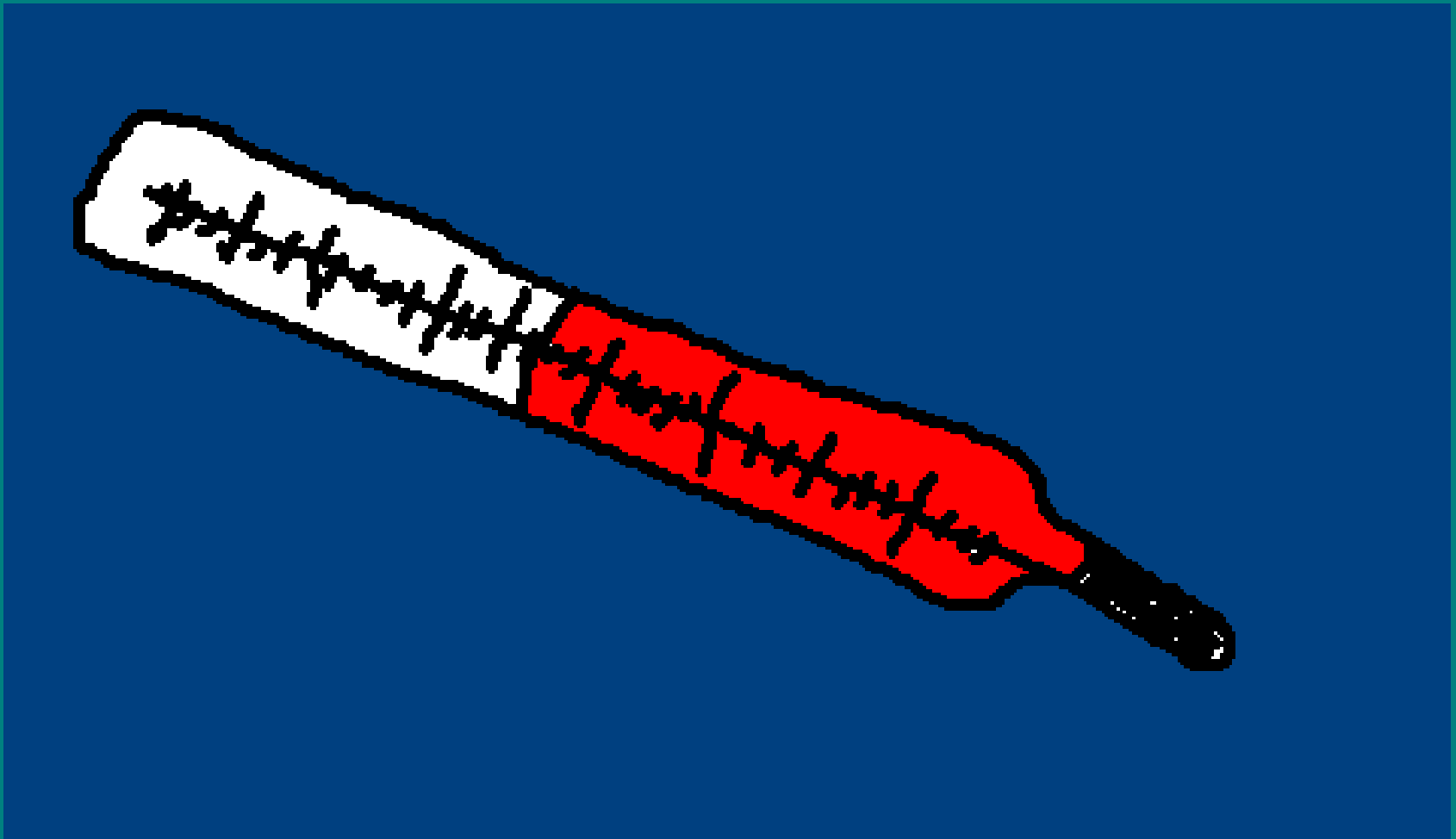
The pond Papež

well

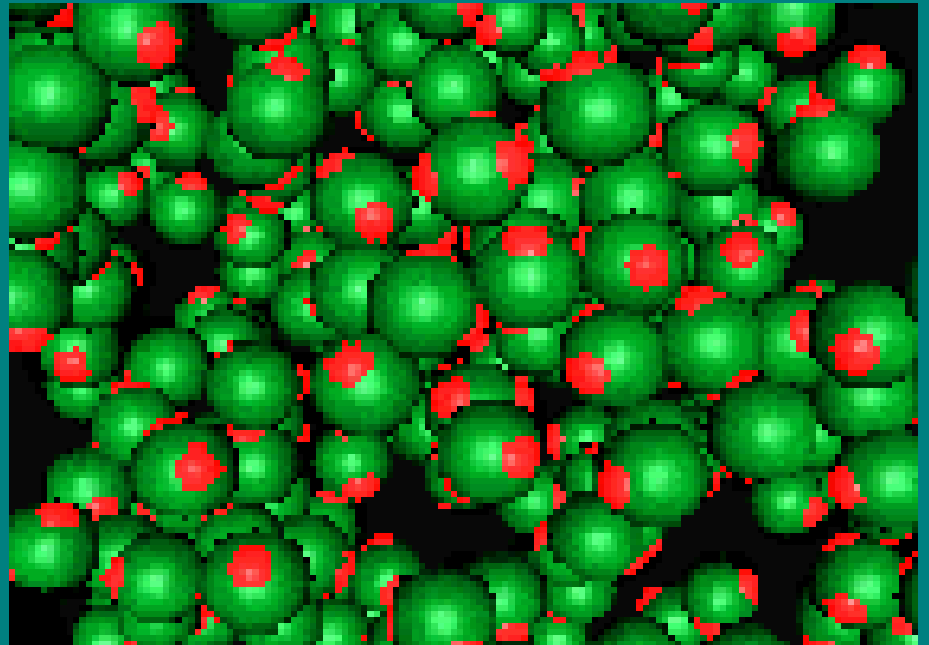The chemical analysis

The biological analysis

The physical analysis

Our aims:

- to analyse water samples

- to determine degree of pollution

- to compare samples

1.class perfectly clear water

-water in the mountain rivers

2.class
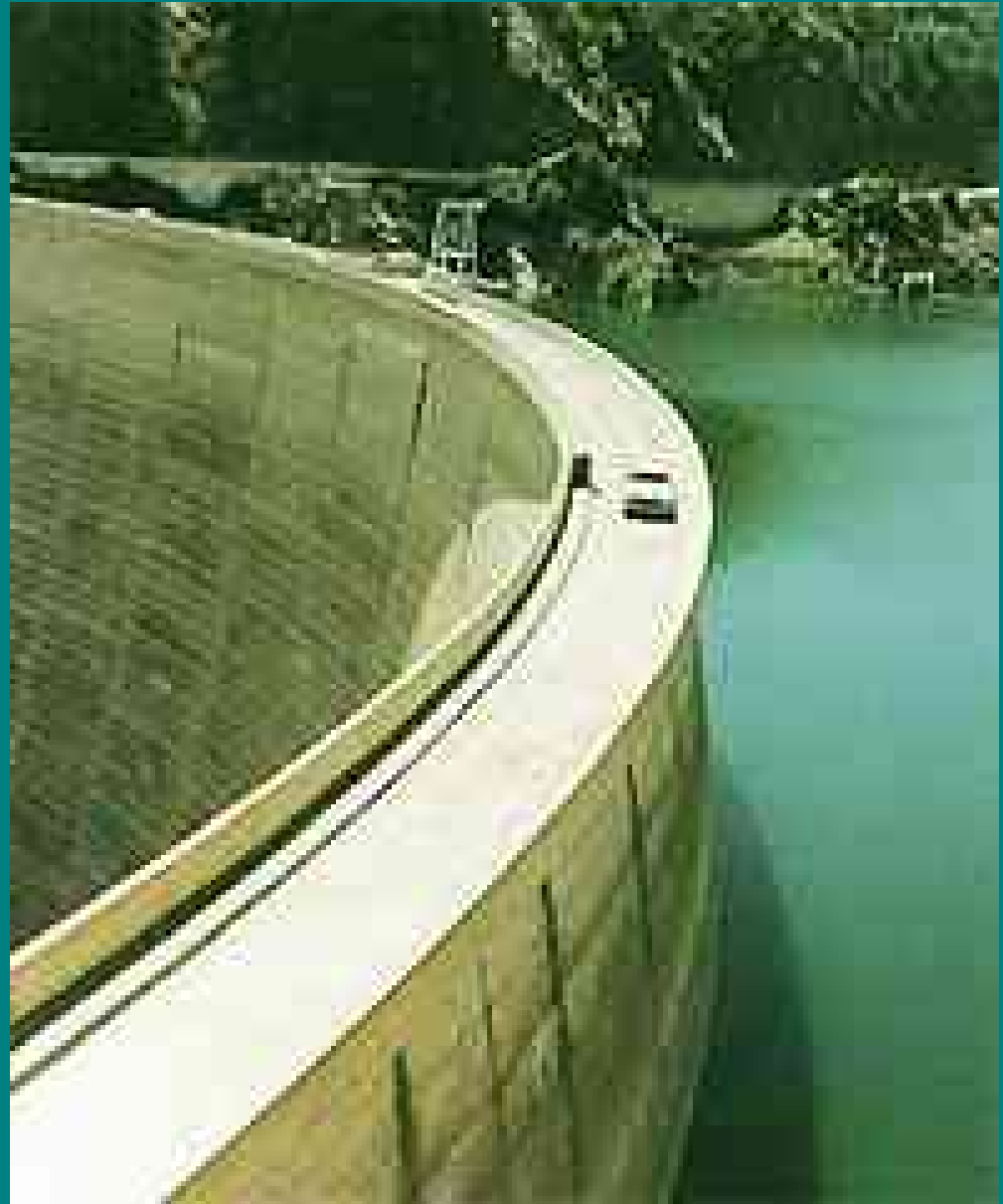
slightly polluted water

-the upper part of the rivers

3. class

water polluted
from natural
sources

water in
reservoirs

4.class

water polluted with organical substances

 - to many bacteria

5.class

water polluted with urban sewage water

(Wastewater treatment plants)

6.class
very polluted water
 - no living organisms, toxic substances

physical analysis	number of sample	1	2	3	4	5
	smell	muddy	no smell	rotten eggs	no smell	petrol
	colour	clean	clean	sand colour	clean	clean
	temperature	2 °C	3 °C	4 °C	15 °C	13 °C
	translucency	0-80 cm	125-80 cm	0-80 cm	125-80 cm	0-80 cm
chemical analysis	pH	7,9	6	7	8	8
	nitrates	0-25	25-50	0-50	25	0-25
	nitrites	-----	+	0	7	++
	cloud	no	no	no	no	yes
biological analysis	unicellular	-	protozoa	protozoa	bacteria	bacteria algae
	class	3. class	3. class	1. class	1. class	3.class

	number of sample	6	7	8	9	10
physical analysis	smell	muddy	muddy	no smell	no smell	muddy
	colour	sand colour	clean	clean	clean	sand colour
	temperature	3 °C	3,5 °C	2 °C	4 °C	4 °C
	translucency	0-80 cm	125-80 cm	125 + cm	125-80 cm	0-80 cm
chemical analysis	pH	6,5	8	8	8	9
	nitrates	0-25	20-50	0	0	0-25
	nitrites	++	-	+	++	+
	cloud	no	yes	no	no	no
biological analysis	unicellular	protozoa	-	protozoa	-	algae
class		3.class	3. class	3. class	2. class	4. class

Thank you for your attention