

# Monitoring principles

- Mainly WFD requirements to evaluate ecological and chemical status of WBs
- Ecological status at least once per monitoring period
- Chemical status Gauja and Salaca river mouth and below biggest cities, if there is additional financing
- Salaca and Gauja river mouth monitored every year also for HELCOM PLC needs
- Tūlija lejpus Zosēniem ICP waters station background levels

WBWB. Burtnieki 10-11.05.2018









# Principles used when deciding about monitoring or not

- Frequency to ensure data series
  Mostly 4 times every season at least once per monitoring cycle ecological quality assessment Intensive stations 12 times (some parameters less) – ecological quality and chemical quality assessment
- Quality assessment
  If status is less than good, than should be measured every year --> In reality does not work

### • Financial aspects

Cutting frequency of priority substances
 Cutting ecological monitoring stations – causing problems to fulfill requirements of 6-year monitoring program

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### Quality elements measured

- Ecological quality
  - temperature, color, O<sub>2</sub> saturation, conductivity, pH, Ca, Mg, Na, K, HCO<sub>3</sub>, SO<sub>4</sub>,
    Cl, total hardness, suspended solids, BOD5, TOC, DOC, alkalinity, P<sub>10</sub>, P-PO<sub>4</sub>,
    N<sub>tot</sub>, N-NH<sub>4</sub>, N-NO<sub>2</sub>, N-NO<sub>3</sub>, Si, Chlorophyll-a, phytoplankton, macrophytes,
    phytobentos, zoobenthos, fish diversity, RBSP (Cu and Zn)
- Chemical quality
  - all 45 priority substances, including biota monitoring and sediments

