



Slovak – Hungarian Water Quality Working Group Joint Transboundary Water Commission, JTWC

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WQWG



- Background
- Legal aspects
- Regular WQ monitoring and assessment
- Emissions
- Impact of transboundary water scheme
- Emergency plans
- Early warning stations
- Perspectives





Background

- First agreement 1963
- Agreement including WQ ratified 1976
 - Transboundary streams in clean conditions
 - Regular monitoring and assessment
 - Accidental pollution control joint effort





Legal aspects

- All activities on transboundary streams agreed by JTWC before national permits
 - Working Groups WQWG one of them
 - Specific programmes, results, recommendations of WGs
 - Protocols of WGs in both languages
 - Specific item of yearly protocol of JTWC
 - Selected problems third language English
 - After approval by plenipotentiaries obligatory for both parties



Regular WQ monitoring and assessment



Development

- **■** 1963 **—** 1975
 - 1 4 samples/year, 11 parameters, verbal
- **■** 1977 1990
 - 12 samples/year, 4 classes, 17 parameters, verbal
- Since 1991
 - Statistical, 6 classes, last 2 years (24 data), 34 parameters



Regular WQ monitoring and assessment



Trends

- pH slightly towards the alkaline range, save for the Bodva, Szartos, Bodrog and Ronyva streams
- Ammonium considerable improvement at all stations
- Majority of other parameters also improvement
- Improvement attributable
 - hydro-meteorological conditions (suspended solids, total iron, manganese)
 - economic recession and/or progress in wastewater treatment





Emissions - "clean water"

- Constructions
 - Maria Valeria bridge oil pollution
- Waste Water Treatment Plants
 - Sturovo pulp industrial complex
 - Richter-Gedeon pharmaceutical facility in Dorog
 - Municipal waste water treatment plants
 - Permission process first step approval by WQWG



Impact of transboundary water scheme



- Water scheme influencing water regime
 - Transboundary impact
 - Specific joint commission
 - Acceptable operational regime
- Extended monitoring
 - 12 years period
 - Trends, conclusions
 - Assessment report broadly available after approval of plenipotentiaries





Emergency plans

- Harmonized emergency plans
 - Crossing the borders
 - Harmonized individual plans
 - Propagation time period
 - Early warning sufficient time span for preventive actions, if possible
 - Content of harmonized plan
 - Bodrog River ready
 - Hornád/Hernád River under preparation





Emergency plans

- Joint emergency plan
 - Identical with state border
 - Specific plan for upstream river stretch
 - Single joint plan for the common stretch
 - Preliminary content
 - Ipel/Ipoly River





Early warning stations

- Early warning of accidental pollution
 - Reasons:
 - Warning for groundwater drinking supply system
 - Basic information for remedial measures
 - Information for Danube Early Warning System
 - Supplementary information on water quality regime
 - Supporting system for state administration and local governments





Early warning stations

- Uh Slovakian territory
 - First impetus: Oil spills from Ukraine
 - Parameters: Oil substances, O₂, NNH₄, NNO₃, pH
 - Location, photos
- Hernad Hungarian territory
 - First impetus: Accidental spills in Slovakia
 - Failure of WWTP in Kosice
 - Location





Early warning stations

- Financial support USAID
- Integral part of Danubian Early Warning System
 - Interconnected with
 - National PIACs
 - State administration
 - Institutes





Perspectives

- Agreement in force boundary streams
- Agreement change
 - Water Framework Directive
 - Avoid formal transposition
 - Helpful for implementation national, international
 - Harmonization of national implementations
- Agreement finalization and phased implementation
 - Starting in 2003
 - Real co-operation earlier