Joint monitoring and assessment;
Exchange of information between riparian Parties;
Warning and alarm systems

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Some provisions of the Convention

Article 4. Monitoring

The Parties shall establish programmes for monitoring the conditions of transboundary waters

Article 5. Research and development

The Parties shall cooperate in the conduct of research into and development of effective techniques for the prevention, control and reduction of transboundary impact.

Article 6. Exchange of information

The Parties shall provide for the widest exchange of information, as early as possible, on issues covered by the provisions of this Convention
Joint monitoring and assessment (article 11)

The Riparian Parties shall:

1. Establish and implement joint programmes for monitoring the conductions of transboundary waters, including floods and ice drifts, as well as transboundary impact

2. Agree upon pollution parameters and pollutants whose discharges and concentration in transboundary waters shall be regularly monitored

3. Carry out, at regular intervals, joint or coordinated assessments of the conditions of transboundary waters and effectiveness of measures taken for the prevention, control and reduction of transboundary impact

4. Harmonize rules for the setting up and operation of monitoring programmes, measurement systems, analytical techniques, data processing and evaluation procedures, and methods for the registration of pollutants discharges.
Exchange of information between Riparian Parties (article 13)

The Riparian Parties shall:

- **Exchange reasonably available data**, *inter alia*, on: (a) Environmental conditions of transboundary waters; (b) best available technology and results of research and development; (c) Emission and monitoring data; (d) Measures taken and planned to be taken to prevent, control and reduce transboundary impact; (e) Permits or regulations for wastewater discharges

- Undertake exchange of **information on national regulations** → harmonize emission limits

- Endeavour to provide information requested by Riparian Party, even if not available (against possible payment of reasonable charges)

- Facilitate exchange of best available technology
Warning and alarm systems
(article 14)

The Riparian Parties shall:

- Without delay inform each other about any critical situation that may have transboundary impact.

- Set up, where appropriate, and operate coordinated or joint communication, warning and alarm systems with aim of obtaining and transmitting information.

These systems shall operate on the basis of compatible data transmission and treatment procedures and facilities to be agreed upon by the Riparian countries.

- Inform each other about competent authorities or points of contact designated for this purpose.
National monitoring system

- **National Legislation:**
  - Water Code
  - Environmental Code
  - Law on Subsoil and Subsoil Use
  - Code on people's health and the health system

- **State monitoring and assessment:**
  - Ministry of Energy (Committee of Environmental Control, “KazHydroMet”)
  - Ministry of Agriculture (Committee of Water Resources)
  - Ministry of Investments and New Technologies (Committee of Geology)
  - Ministry of Economy (Committee of Consumer Protection, which is responsible for the sanitation)

- **Industrial monitoring and assessment**
Monitoring of Transboundary water bodies in National legislation

- Creation of regional and national databases on the use and protection of transboundary waters (article 143, Water Code)
- Carring out joint scientific and technical investigations to solve water problems (article 143, Water Code)
- Monitoring of transboundary pollution (article 141, Environmental Code)
- Joint environmental monitoring based on agreed standards and requirements (article 192, Environmental Code)
- Transboundary environmental impact assessment (article 192, Environmental Code)
- Provision of information on emergency situations if there is a potential threat of transboundary impact (article 192, Environmental Code)
Warning and alarm systems

- **Legislation** - Low of Kazakhstan on Civil Protection

- Measures on flood protection, floods, mud flows... *(article 42, Low on Civil Protection)*

- Carry out monitoring and forecast of emergency situations on a permanent basis in cooperation with organizations of foreign countries, international organizations, *(article 107, Low on Civil Protection)*

- **State Agency** - Ministry of Interior Affairs (Committee on Emergency Situations)
Basic International Agreements

- Agreement between Government of Kazakhstan and Government of Russian Federation on joint use and protection of transboundary water bodies (Usk – Kamenogorsk, Kazakhstan, 2010)

- Agreement between Government of Kazakhstan and Government of China on cooperation in the use and protection of transboundary rivers (Astana, 12.09. 2001)

- Agreement on the status of the International Aral Sea Fund and its organizations (Tajikistan, Uzbekistan, Kazakhstan, Kyrgyzstan, Turkmenistan, 1999)
### The number of hydrological stations on the transboundary rivers

- **Total** 28
- **On the boundary with China** 5
- **On the boundary with Russia** 20
- **On the boundary with Kyrgyzstan** 2
- **On the boundary with Uzbekistan** 1
New hydrological station on the transboundary river
Replacement of equipments for hydrological measurements

Old

Modern
Hydrochemical stations on the main transboundary rivers of Kazakhstan

- Река Урал: йелеко (Fe общ., Cu2+) Фенолы
- Река Аят: Аммоний солевой (NH4) Хром (Cr6+) Сульфаты (SO4)
- Река Тогызак: Азот нитритный (NO2) Сульфаты (SO4) Медь (Cu2+)
- Река Тобол: Сульфаты (SO4) Медь (Cu2+) Фенолы
- Река Убаган: Хлориды (Cl) Фенолы
- Река Есил: Медь (Cu 2+)
- Река Ерте: Фенолы
- Река Кара Ерте: Медь (Cu 2+)
- Река Иле: Фенолы
- Река Сырдарья: Сульфаты (SO4) Медь (Cu 2+)
- Река Сырдарья: Фенолы
- Река Келес: Фенолы
- Река Келес: Сульфаты (SO4) Медь (Cu 2+)
- Река Талас: Сульфаты (SO4), Фенолы, БПК5
- Река Шу: Азот нитритный (NO2)

Гидрохимический створ на трансграничной реке
CAREWIB
INFORMATION SYSTEM

INFORMATION SYSTEM
CENTRAL ASIA
REGIONAL WATER INFORMATION BASE
International Agreement in the field of emergency

- Agreement between Kazakhstan and Kyrgyz Republic on cooperation in the field of civil defense, emergency prevention and response (16 July 2009, Astana)


Both these Agreements contain the obligations on the prevention and early warning of the possible occurrence of natural disasters on transboundary rivers
Thank you for your attention!