

An abstract background pattern composed of numerous small triangles in various shades of blue and white, arranged in a complex, overlapping geometric design that tapers towards the bottom.

Prevention and response to emergencies and accidents at industrial sites

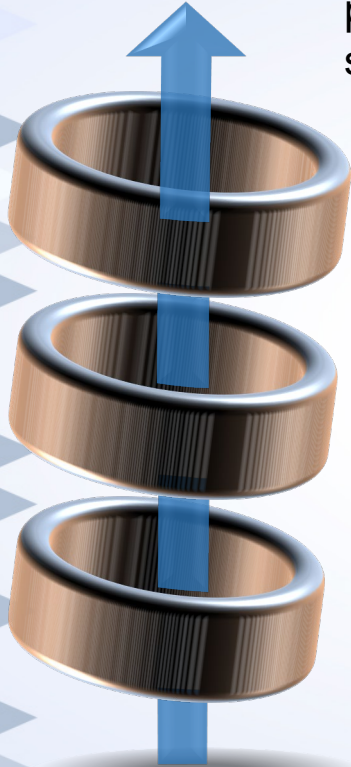
The Republic of Kazakhstan



**The territory of
Kazakhstan is
subject to all types
of natural disasters,
except for tornado
and tsunami.**



The interdepartmental state commission for the prevention and elimination of emergency situations unites interested parties to discuss preparation for and management of crisis situations.



In 2018 in the Republic of Kazakhstan:

27 accidents at hazardous
production facilities

As a result: 17 people
suffered, 5 died

Compared with 2017, the
increase in the number of
accidents was 42%

For 4 months of 2019 5
accidents were registered

Floods in the Republic of

Every year the greatest economic damage is caused by the negative impact of flood waters.



2017

1504 residential houses
flooded

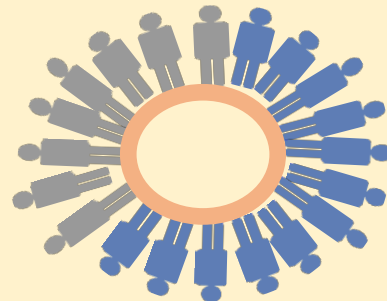


in 87
settlements 9



2018

1453 residential houses
flooded



in 50
settlements 4
areas



Roadmap

"A set of measures for the prevention and elimination of flood threats for 2017-2020"

The roadmap was developed in response to the instructions of the First Deputy Prime Minister of the Republic of Kazakhstan, Mamin A.U.

In 2017, **204** events were implemented in the amount of **12.5** billion tenge - **107** protective dams were built and strengthened, repairs were made to **71** hydraulic structures, **8** bridges with an increase in their carrying capacity.

In 2018, **153** events were implemented in the amount of **10.5** billion tenge. In 2019, it is planned to complete **91** events worth over **8** billion tenge.

In the last 2 years alone, these practical engineering and protective measures have allowed minimizing the threat to 692 locations throughout the country (65% of 1055).

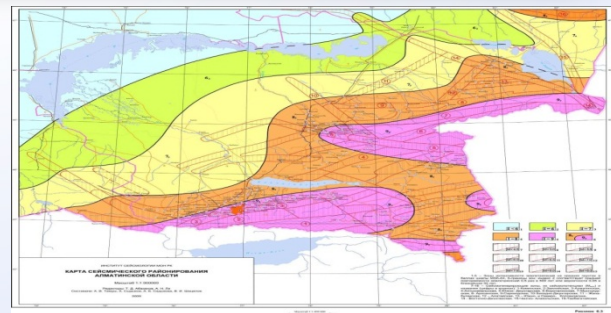
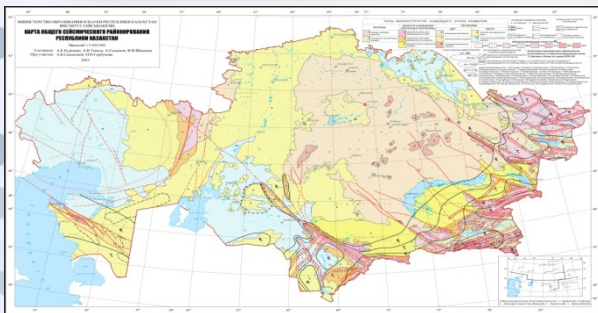
Сейсмическая безопасность

1

One third of the territory of Kazakhstan is seismic hazardous, where more than 6 million people live

2

more than 400 cities and settlements are located, 40% of the industrial potential is concentrated.



Seismic safety

To develop systematic measures to improve the work in the field of seismic safety in the country, a Road Map “A set of measures to improve the efficiency of work to ensure the seismic safety of the Republic of Kazakhstan for 2018-2020” has been developed.

The roadmap provides for the implementation of 36 events, in 2018 - 12 events, 2019 - 17, 2020 - 7.

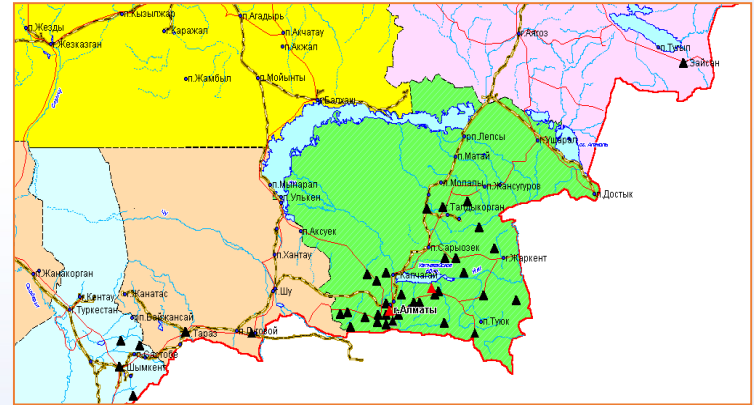
Seismic safety

From 2010 to 2017, seismic reinforcement of 28 residential buildings, 169 schools, 39 healthcare facilities, 23 preschool institutions and 13 public and industrial buildings was carried out in 6 regions of the country.

All from 2010 to 2017 more than 47.4 billion tenge was allocated from the local budget for these activities.

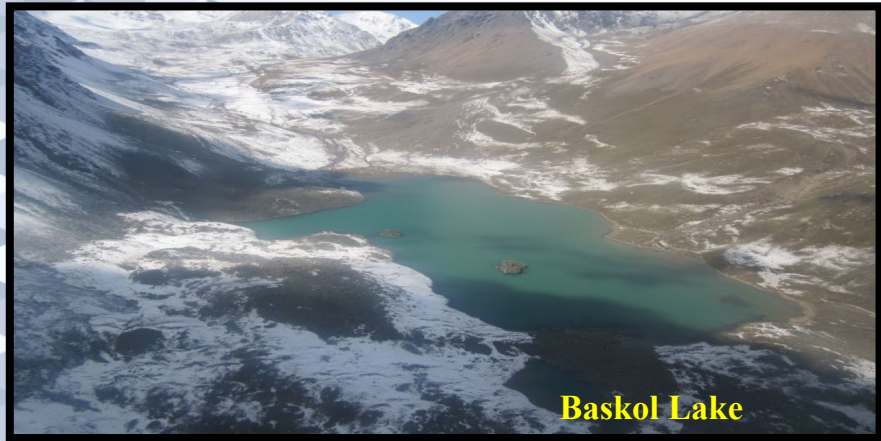


Seismic Strengthening Schools in Almaty



location of seismological stations

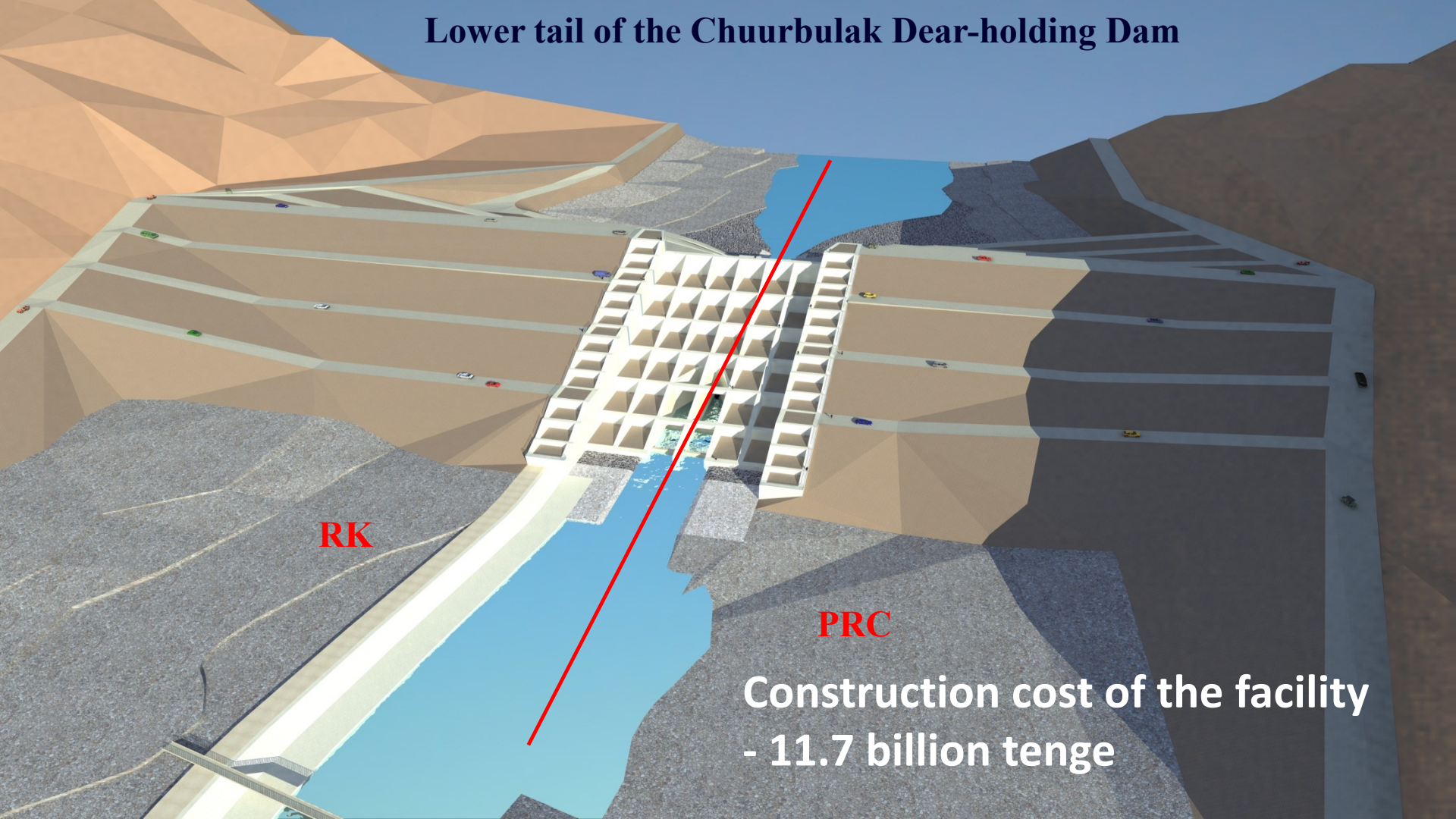
Alpine lakes in the Khorgos basin



Construction of protective structures on the Khorgos River (Khorgos-1)



Lower tail of the Chuurbulak Dear-holding Dam



RK

PRC

Construction cost of the facility
- 11.7 billion tenge

Cross-border interaction



In Pavlodar region, cooperation with is carried out on the basis of Plans of interactions with the Main Directorates of the Ministry of Emergencies of Russia in Omsk, Novosibirsk Regions



a unit of the East Kazakhstan region has an agreement with the border regional unit of Russia on a simplified procedure for crossing the state border

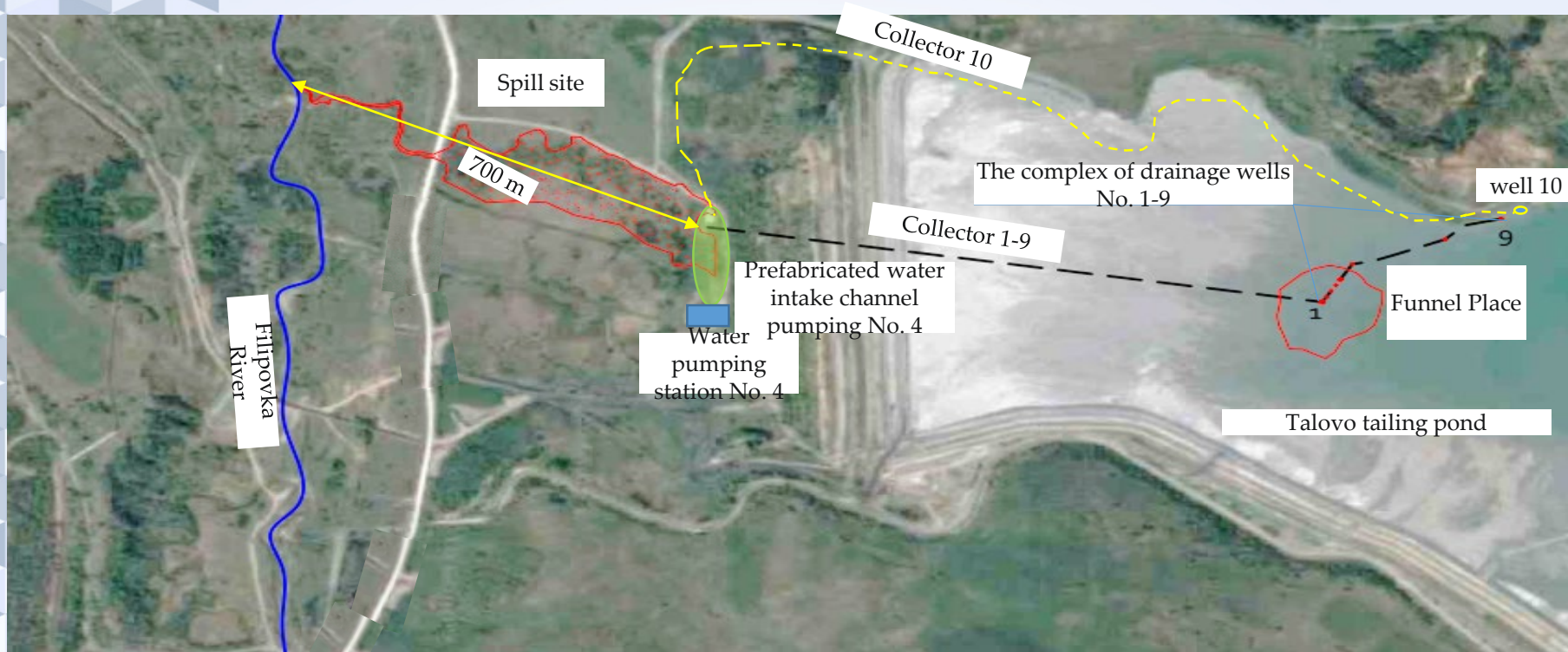


Incident at the Talovsky tailing pond of the Ridder Mining and Processing Complex

On May 22, at the Talovsky tailing pond of the Processing Plant, enrichment tailings emerged through a water intake collector.



Incident Situational Plan



Problematic issues

There is no information on industrial facilities in China, Uzbekistan, and the Kyrgyz Republic that have a threat of transboundary negative impact.

There are no agreements with these countries on the simplified procedure for crossing the state border by emergency services and groups.

In connection with the privatization process of the Republican central headquarters of professional militarized emergency rescue services, today the potential for eliminating accidents at industrial facilities has been reduced.



Thank you for attention!