Dzharylhach Lighthouse © Blue Rivers

River Basin Management Plan

Black Sea 2025–2030

Funded by the European Union

EU4Environment
Water and Data in Eastern Partner Countries

Ministry of Environmental Protection and Natural Resources of Ukraine

State Agency of Water Resources of Ukraine

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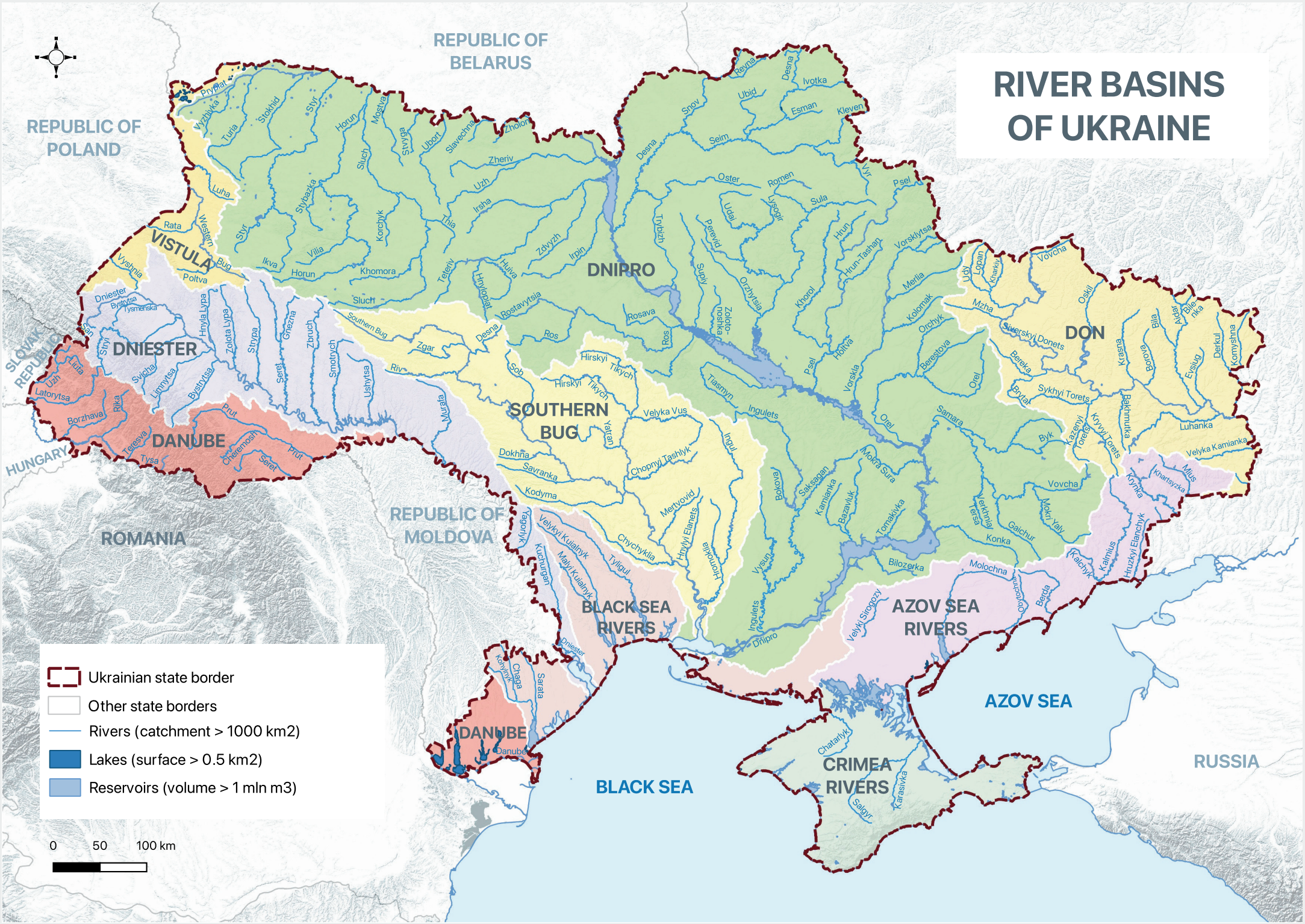

RIVER BASINS OF UKRAINE
REPUBLIC OF BELARUS
REPUBLIC OF POLAND
SLOVAK REPUBLIC
HUNGARY
ROMANIA
REPUBLIC OF MOLDOVA
RUSSIA
AZOV SEA
BLACK SEA
DNIESTER
VISTULA
DANUBE
SOUTHERN BUG
DNIPRO
DON
BLACK SEA RIVERS
AZOV SEA RIVERS
CRIMEA RIVERS
Ukrainian state border
Other state borders
Rivers (catchment > 1000 km2)
Lakes (surface > 0.5 km2)
Reservoirs (volume > 1 mln m3)
0
50
100 km

RIVER BASIN MANAGEMENT PLAN – BLACK SEA

RIVER BASIN GEOGRAPHY

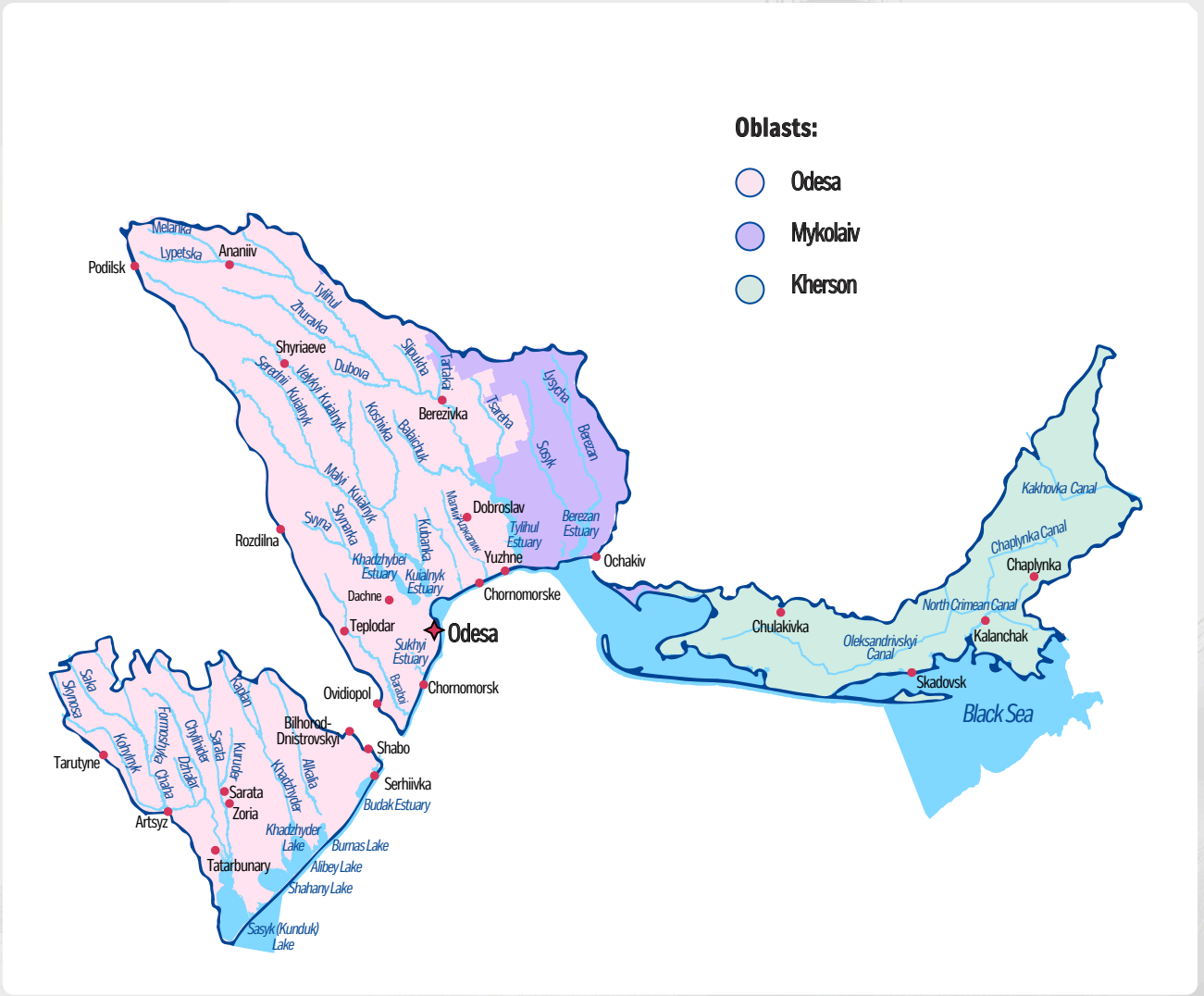
The River Basin District is located entirely within Ukraine.

The basin covers the territory of **3 oblasts of Ukraine** – Odesa, Mykolaiv, Kherson.

231 surface water bodies (SWBs):

- **127** rivers
- **3** lakes
- **18** transitional waters
- **9** coastal waters
- **70** HMWBs*
- **4** AWBs*

6 groundwater bodies (GWBs)



* HMWBs – heavily modified water bodies, AWBs – artificial water bodies

RIVER BASIN MANAGEMENT PLAN – BLACK SEA

ECOLOGICAL STATUS AND POTENTIAL

MAIN ELEMENTS:

- **Biological** (composition and abundance) parameters
  - macro invertebrates
  - phytoplankton
  - other aquatic flora
  - fish (not determined)

SUPPORTING ELEMENTS:

- Chemical and physico-chemical parameters
- Hydromorphology (flows, sediments)
- Basin specific (synthetic and non-synthetic) pollutants

https://cutt.ly/cenginwr

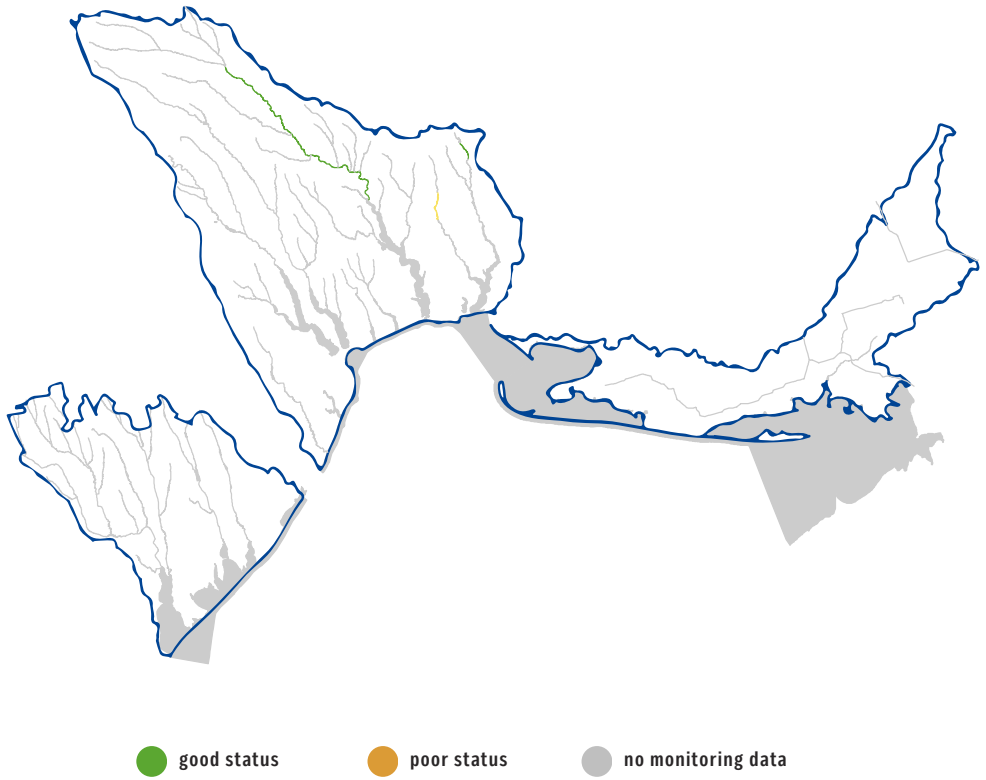
Link to the methodology document

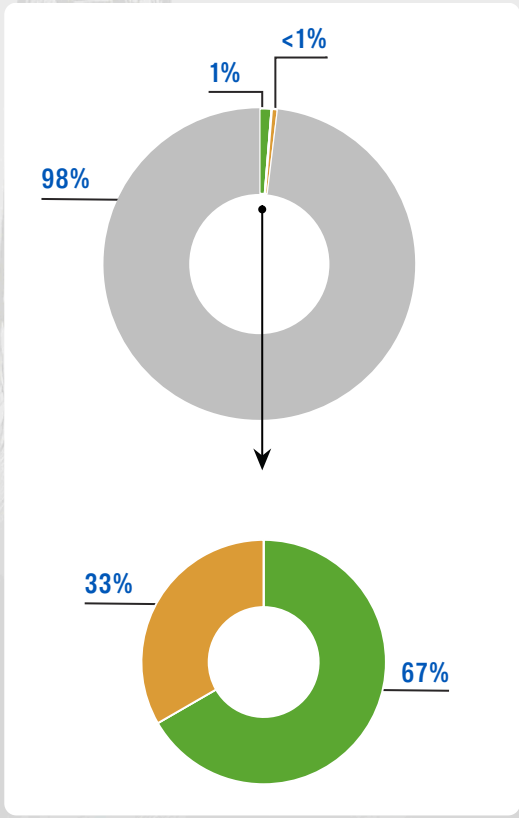
ECOLOGICAL STATUS

Defined only for the category of natural surface water bodies,
157 SWBs

ECOLOGICAL POTENTIAL

Defined only for the categories of heavily modified (HMWB) and artificial (AWB) surface water bodies,
not defined in the current cycle





CHEMICAL STATUS

This is determined for **45 pollutants**.

If the concentration of any of them exceeds the established environmental quality standard for surface water, the status of the SWB is classified as **"failure to achieve good status"**.

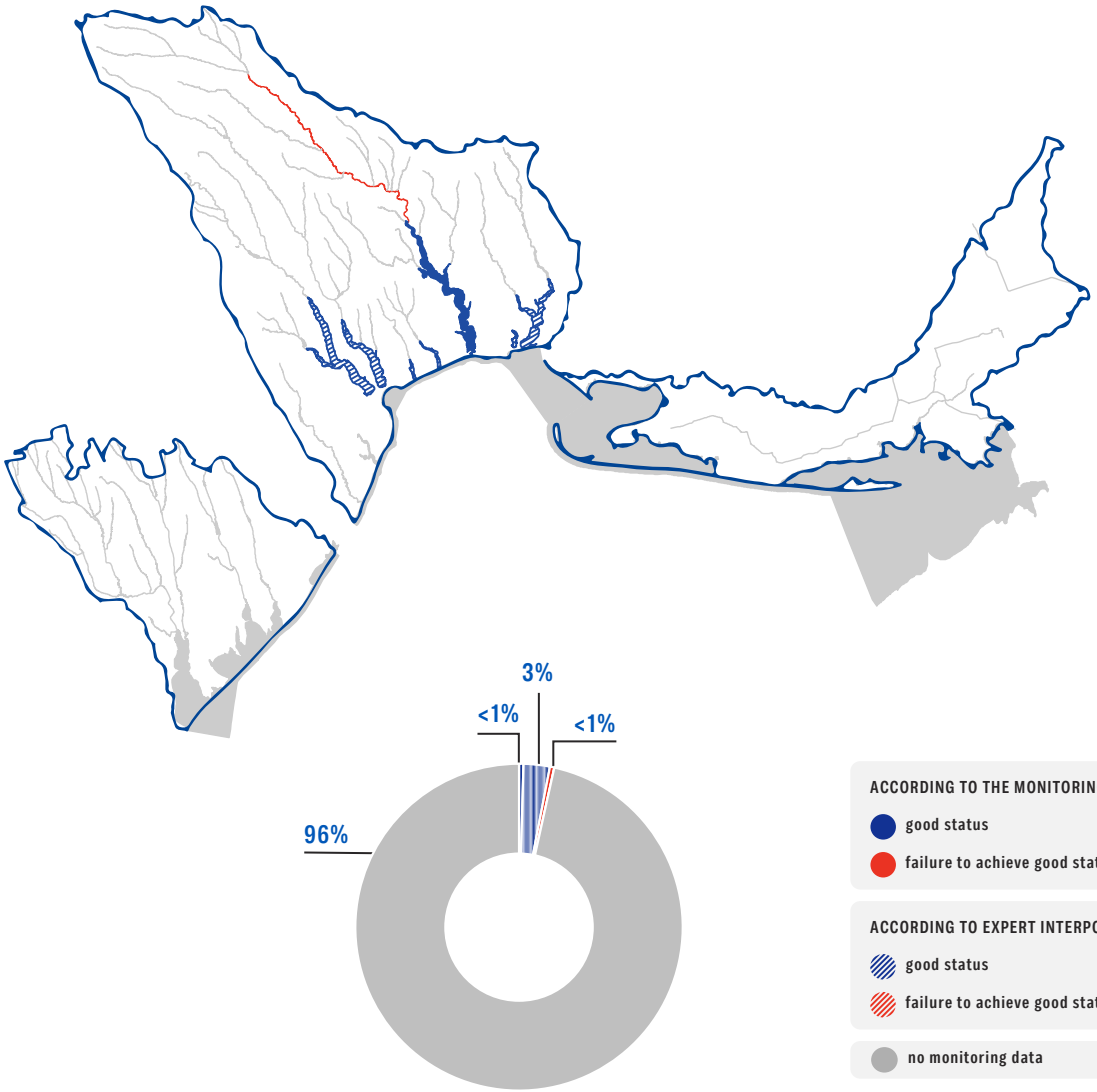
Exceedances of the following pollutants were identified:

benzo(a)pyrene, cypermethrin, dicofol, nickel, fluoranthene, benzo(b)fluoranthene, cybutryn, benzo(g,h,i,)perylene, benzo(k)fluoranthene, tetrachloromethane.

Chemical monitoring of GWBs is not conducted at present.

https://cutt.ly/EenguUfB

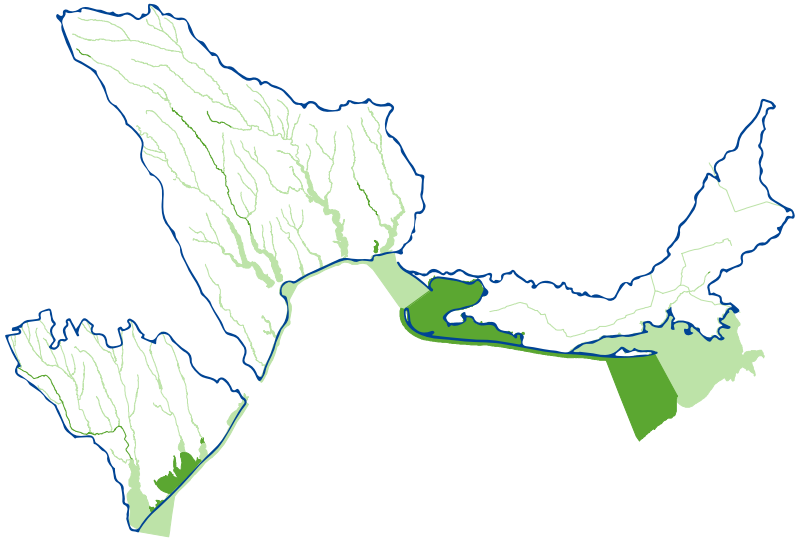
List of pollutants



RIVER BASIN MANAGEMENT PLAN – BLACK SEA

ENVIRONMENTAL OBJECTIVES FOR SWBs *

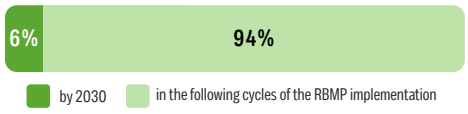
1. **Preventing the deterioration** of all SWBs
2. Achieving / maintaining a **good ecological** and **chemical status** of all natural SWBs (rivers, lakes, transitional and coastal waters)
3. Achieving / maintaining a **good ecological potential** and **chemical status** of heavily modified and artificial SWBs
4. Gradual **reduction** to the complete **absence of hazardous substances**



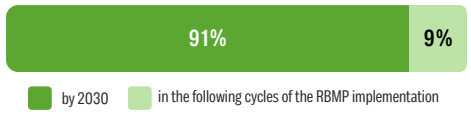
https://cutt.ly/oengy9jl

Link to the methodology document

Timeframe for achieving the good ecological status of SWBs



Timeframe for achieving the good chemical status of SWBs



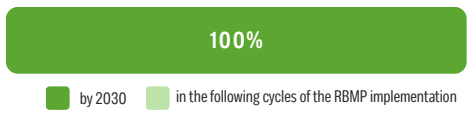
* The map shows the deadlines for achieving a good ecological status of the SWBs

ENVIRONMENTAL OBJECTIVES FOR GWBs **

1. **Preventing the deterioration** of all GWBs
2. Achieving / maintaining a **good quantitative** and **chemical status** of all GWBs
3. **Preventing** and **limiting groundwater pollution**

Timeframe for achieving the good chemical status of GWBs

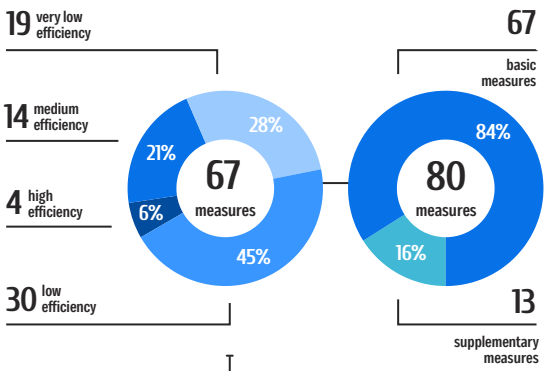
Timeframe for achieving the good quantitative status of GWBs



** The map shows the deadlines for achieving a good chemical status of the GWBs

RIVER BASIN MANAGEMENT PLAN – BLACK SEA

PROGRAMMES OF MEASURES



€568M*

TOTAL COSTS OF MEASURES

€53*

COSTS OF MEASURES PER INHABITANT PER YEAR

https://cutt.ly/ce0DaACp

A full list of Measures is available in the River Basin Management Plan of Black Sea rivers

SANITATION

1. Reconstruction of WWTPs** in Odesa, Podilsk, Chornomorsk, Kalanchak cities
2. Reconstruction of WWTPs in Artsyz, Skadovsk, Ananiev, Lazurne, Sarata, Berezanka, Naberezhne cities and Ivanivka village
3. Reconstruction of the SN** and new construction of a WWTP in Teplodar city
4. Construction of WWTPs, SPSs** and SNs in Uspenivka and Kulevchany villages
5. Construction of WWTPs and SNs in Starokozache town and Berezivka village

€483M or 85%

TOTAL COSTS OF MEASURES

AGRICULTURE

1. Establishment of water and bank protection zones at water bodies

OTHER

1. Improvement of water use accounting of Black Sea rivers

HYDROMORPHOLOGY

1. Restoration of the Kuyalnyk Estuary within Odesa and Usativske communities
2. Revitalization of the Anchokrak (Bakhmutka), Kaplan, Torosova, Khorosha, Sukha, Hluboka rivers
3. Revitalization of the Tiligul, Kogilnyk, Sukha Zhuravka, Sarata, Khadzhider, Alkalia, Baraboy, Malyi Kuyalnyk, Velykyi Kuyalnyk, Yar Dubovyi, Koshkivka, Fontanka, Raykova, Zhuravka, Sosyk, Berezan, Kalanchak, Dalnyk, Skurtyanka, Sychavka rivers and the Hlyboka Balka stream
4. Measures to increase the water capacity of the Tylihul River near Zavodivka village
5. Dismantling of dams on the Unnamed Gully (Isayivski ponds No. 1, No. 2, No. 3)
6. Removal of the retaining wall on the Tsarega River at Tashyno village
7. Reconstruction of the spillway structure of Nechaianskyi Reservoir

HIGH EFFICIENCY

80% of the budget — benefit for **1136K** ppl.

MEDIUM EFFICIENCY

6% of the budget — benefit for **1098K** ppl.

LOW EFFICIENCY

13% of the budget — benefit for **580K** ppl.

VERY LOW EFFICIENCY

1% of the budget — benefit for **75K** ppl.

SUPPLEMENTARY MEASURES

13 measures

benefit for **1.8M** ppl.

1. Dissemination of innovative knowledge and promotion of green financing for sustainable river basin management
2. Inventory of the network of groundwater observation wells
3. Inventory and subsequent rehabilitation / repairing or preservation of the network of observation wells
4. Reassessment of operational groundwater reserves
5. Development of a Drought Management Plan (DMP) as part of the RBMP
6. Collection and use of rainwater and graywater
7. Development of a methodology for determining and calculating the ecological flow
8. Identification and designation of particularly valuable river sections
9. Development of recommendations for restoring the forest landscape of river valleys
10. Inventory of barriers that impede the free flow of rivers

* according to the NBU rate 1 EUR = 45 UAH, June 2024; calculations of costs of measures were carried out during 2016-2023

** WWTP – waste water treatment plant, SN – sewage network, SPS – sewage pumping station

M – million; K – thousand; ppl. – people