Stone Tomb © Blue Rivers

River Basin Management Plan

Azov 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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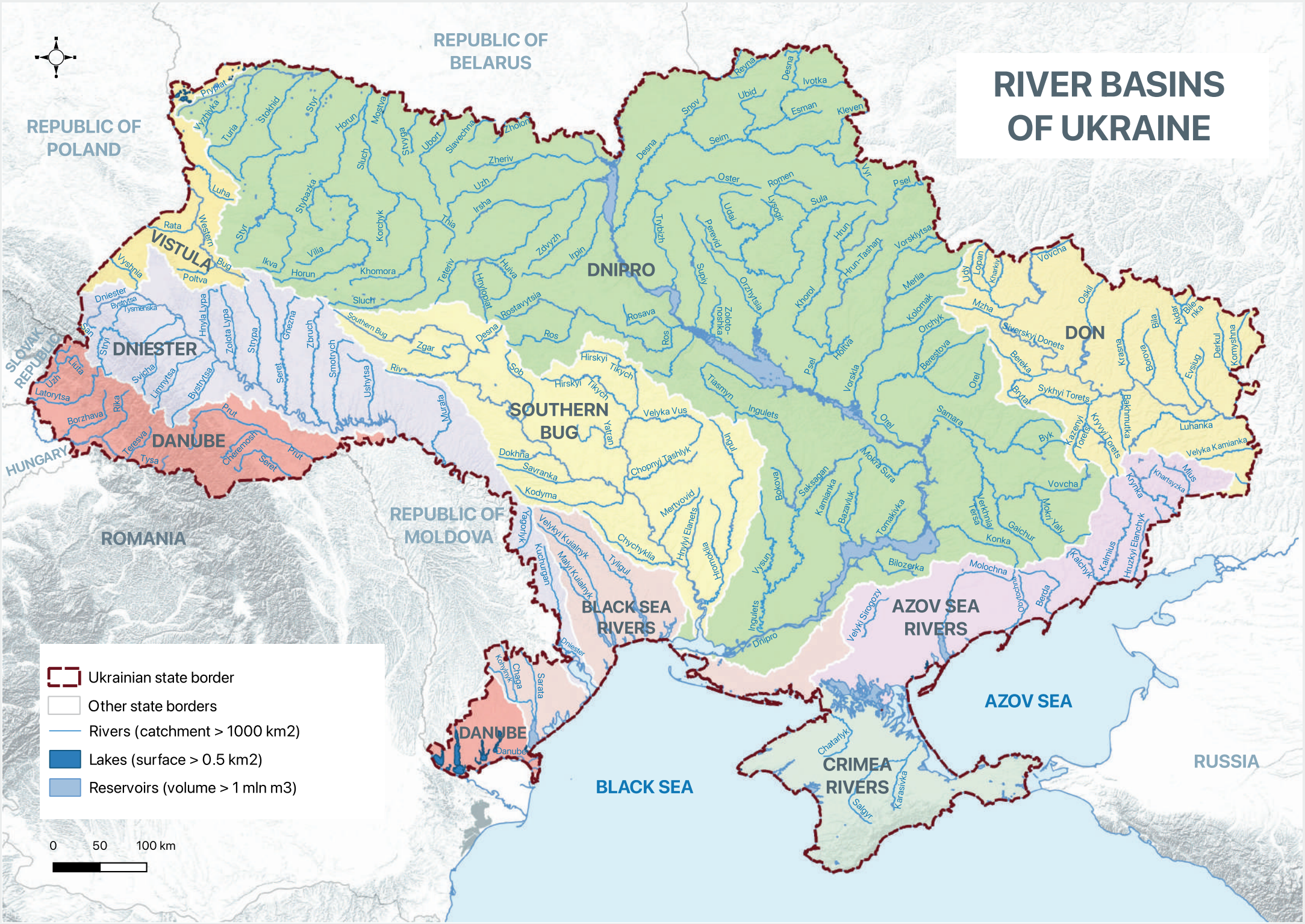

RIVER BASINS OF UKRAINE
REPUBLIC OF BELARUS
REPUBLIC OF POLAND
SLOVAK REPUBLIC
HUNGARY
ROMANIA
REPUBLIC OF MOLDOVA
RUSSIA
VISTULA
DNIESTER
DANUBE
SOUTHERN BUG
DNIPRO
DON
BLACK SEA RIVERS
AZOV SEA RIVERS
CRIMEA RIVERS
BLACK SEA
AZOV SEA
Ukrainian state border
Other state borders
Rivers (catchment > 1000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

RIVER BASIN MANAGEMENT PLAN – AZOV SEA

RIVER BASIN GEOGRAPHY

The River Basin District is located entirely within Ukraine.

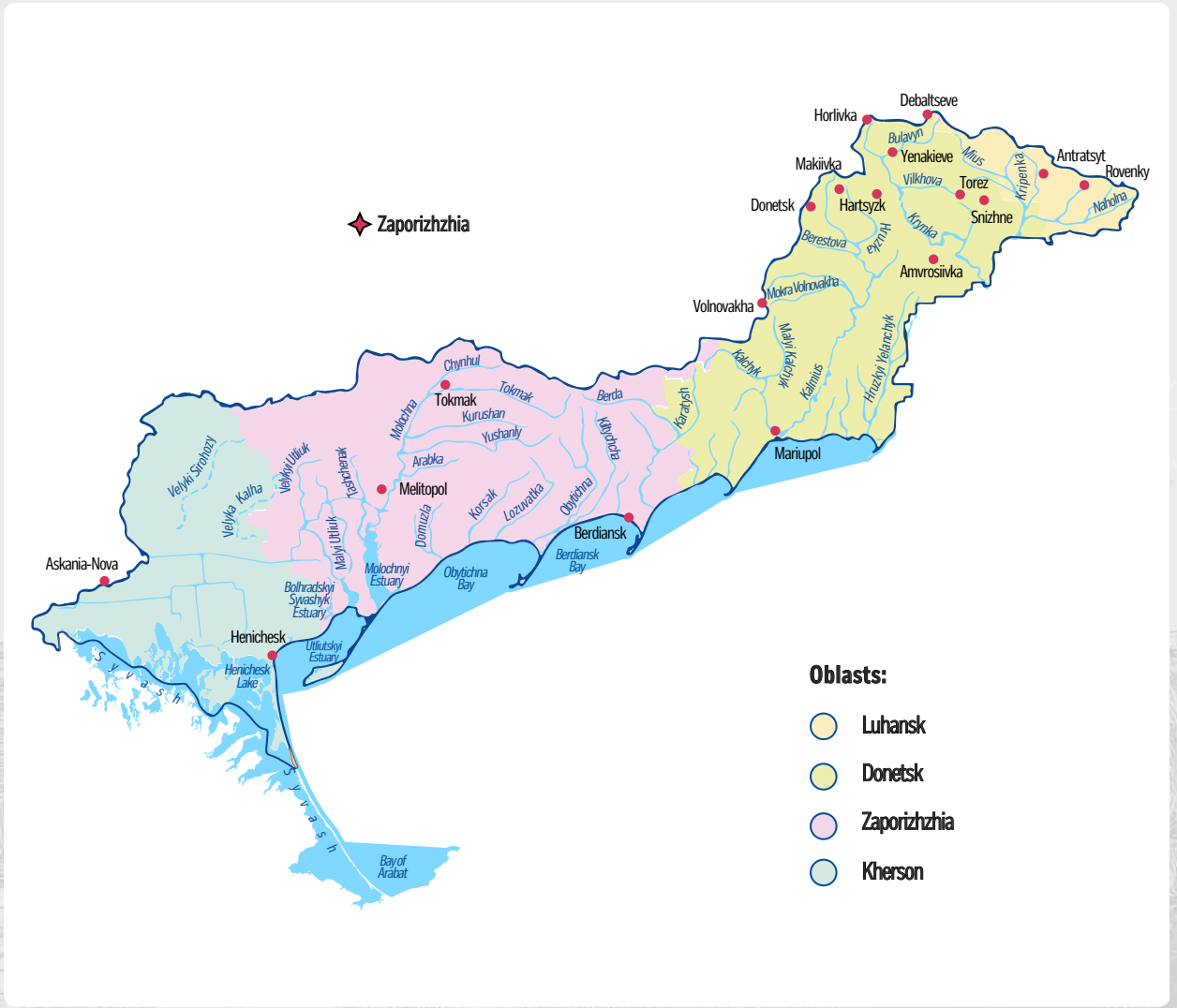
The basin covers the territory of **4 oblasts of Ukraine** – Donetsk, Luhansk, Zaporizhzhya and Kherson.

555 surface water bodies (SWBs):

326 rivers
11 lakes
12 transitional waters
8 coastal waters
182 HMWBs*
16 AWBs*

15 groundwater bodies (GWBs)

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



RIVER BASIN MANAGEMENT PLAN – AZOV 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

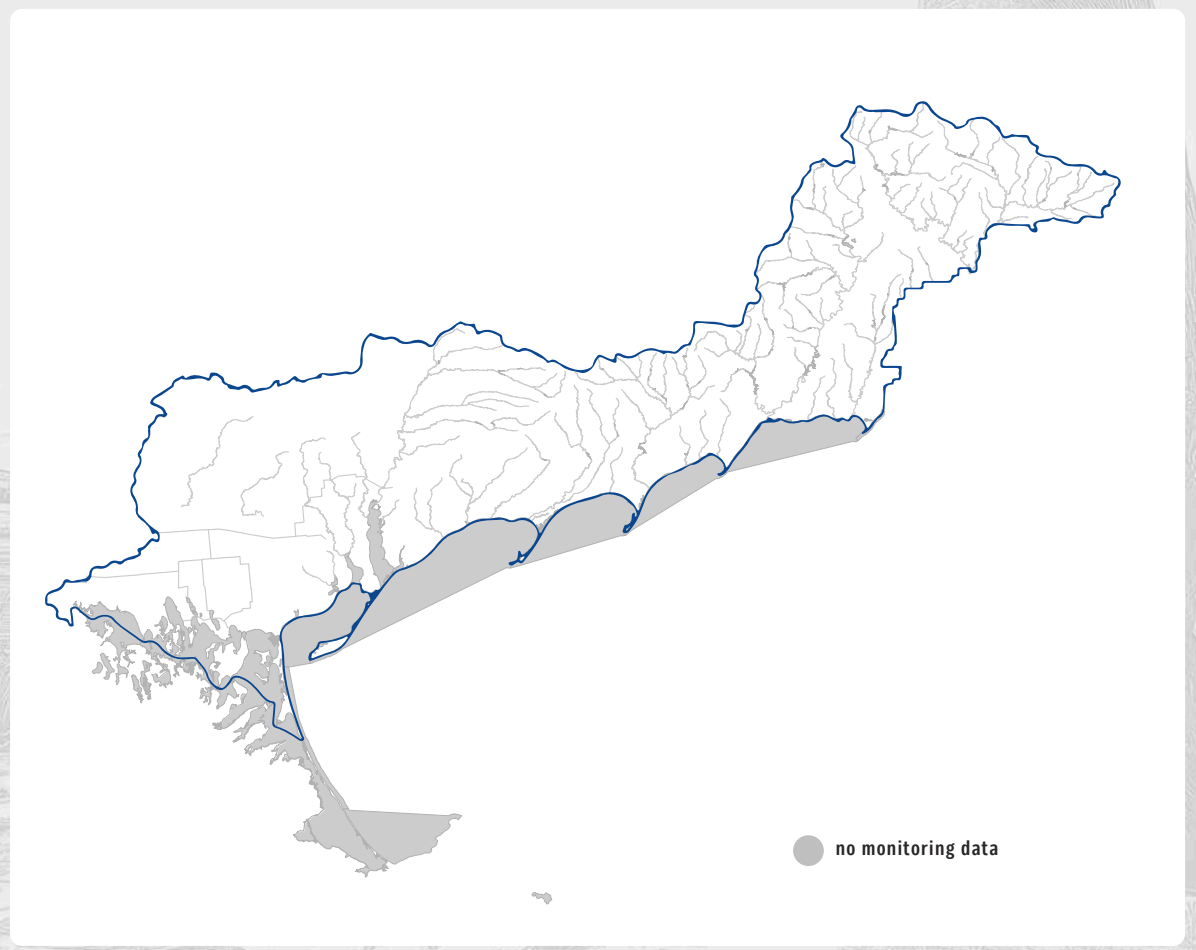
Link to the methodology document

ECOLOGICAL STATUS

Defined only for the category of natural surface water bodies, **not defined in the current cycle**

ECOLOGICAL POTENTIAL

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



RIVER BASIN MANAGEMENT PLAN – AZOV SEA

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"**.

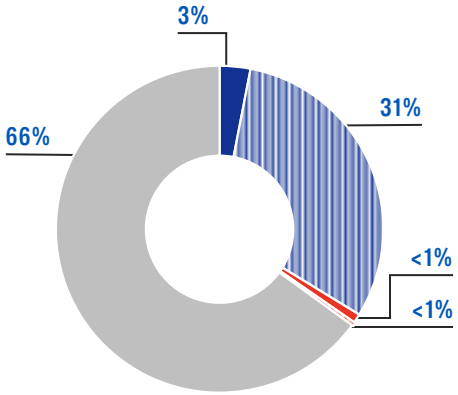
Exceedances of the following pollutants were identified:

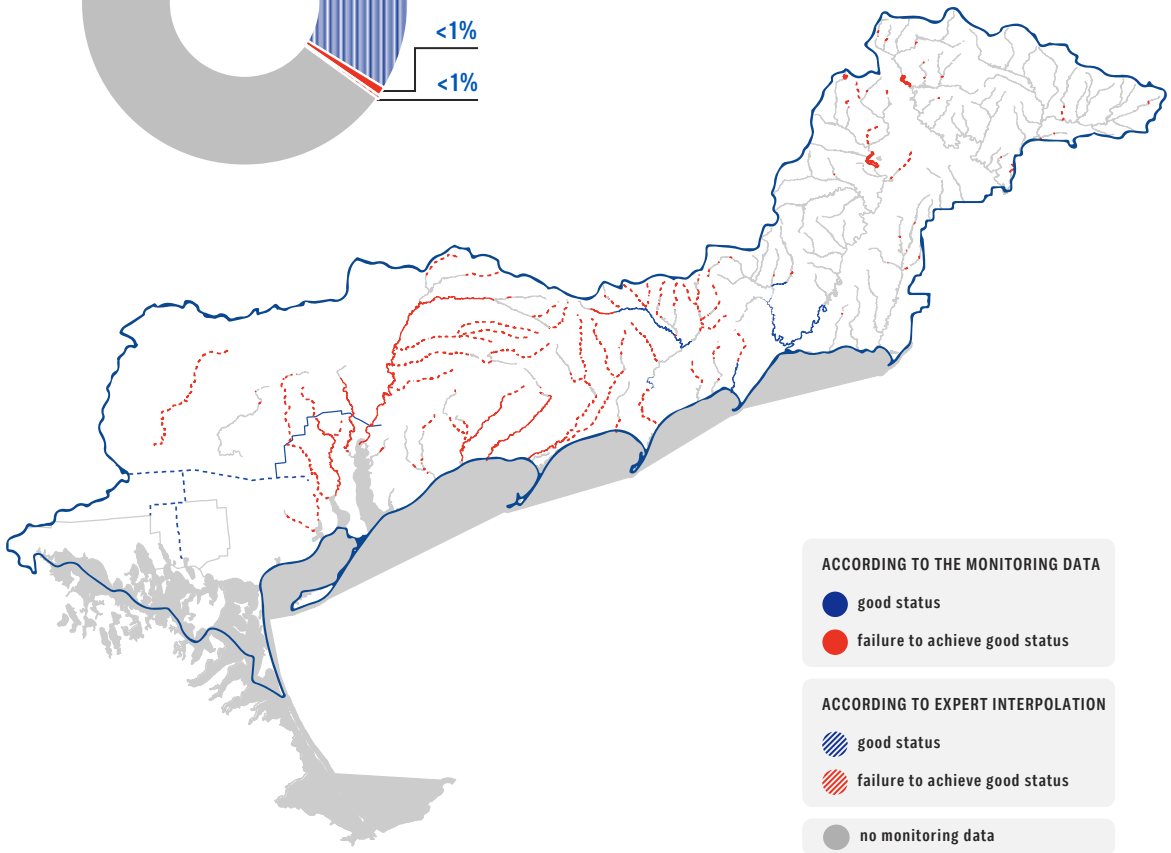
pentachlorobenzene, trichloromethane, fluoranthene, cadmium, nickel, para-para-DDT, dicofol, cybutrin (irgarol), plumbum.

Chemical monitoring of GWBs is not conducted at present.

https://cutt.ly/EenguUfB

List of pollutants

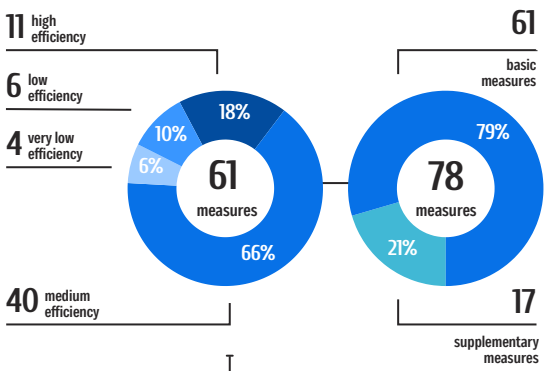




RIVER BASIN MANAGEMENT PLAN – AZOV SEA

IX-5

PROGRAMMES OF MEASURES



€545M*

TOTAL COSTS OF MEASURES

€71*

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 Azov Sea rivers

SANITATION

1. Reconstruction of WWTPs and SNs** of Makiivka, Mariupol, Melitopol, Khartsyzsk, Yenakiyevo, Chystyakove, Berdiansk, Shakhtarsk, Tokmak, Khrestivka, Snizhne cities...
2. Construction of WWTPs and SNs in Prymorsk, Molochansk cities... Sartana, Vesele, Yakymivka, Chernihivka, Mangush, Yalta, Kyrylivka, Pryazovske towns... Kostiantynivka, Myrne, Pryshyb, Tymoshivka, Novobohdanivske, Voznesenka, Semenivka, Terpennya, Novovasylivka, Urzuf, Melekine villages...
3. Reconstruction of WWTPs and SNs of Volnovakha, Dokuchaevsk, Debaltseve, Vuhlehirsk, Novoazovsk cities... Nyzhnya Krynka, Novotroitske, Moskovske, Novotroitske, Donske, Boykivske towns... Fruktove village...

€529M or 97%

TOTAL COSTS OF MEASURES

OTHER

1. Improvement of water use accounting in the Azov Sea River Basin within Donetsk, Luhansk, Zaporizhzhia and Kherson oblasts
2. Reconstruction and expansion of the landfills in Chernihivka village (Chernihivka community, Berdiansk district, Zaporizhzhia oblast)

HYDROMORPHOLOGY

1. Revitalization of the Kalmius, Kalchyk and Molochna rivers
2. Revitalization of the Zhuravleva River (including removal of 4 dams outside of Starodubivka village), of the Zelena and Mokra Bilosaraivka rivers

AGRICULTURE

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

INDUSTRY

1. Reconstruction of the industrial WWTP after water treatment at the "Water of Donbass" Company (Donetsk, Mariupol, Yenakiyevo, Olgino, Makiivka territorial communities)

HIGH EFFICIENCY

78% of the budget — benefit for **1.3M** ppl.

MEDIUM EFFICIENCY

19% of the budget — benefit for **1.95K** ppl.

LOW EFFICIENCY

2% of the budget — benefit for **415K** ppl.

VERY LOW EFFICIENCY

1% of the budget — benefit for **11.5K** ppl.

SUPPLEMENTARY MEASURES

17 measures

benefit for **3M** ppl.

1. Study of the impact of military operations on the SWB status
2. Inventory of water bodies under occupation since 2014 or since 24.02.2022
3. Research on the impact of invasive species on the status of SWBs
4. Information campaigns and public campaigns on garbage collection
5. Development of a Drought Management Plan (DMP) as part of the RBMP
6. Assessment of the impact of hydraulic structures on water bodies
7. Inventory of the network of groundwater observation wells
8. Reassessment of operational groundwater reserves
9. Inventory and subsequent rehabilitation / repairing or preservation of the network of observation wells
10. Development of a methodology for determining and calculating the ecological flow
11. Collection and use of rainwater and graywater
12. Identification and designation of particularly valuable river sections
13. 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

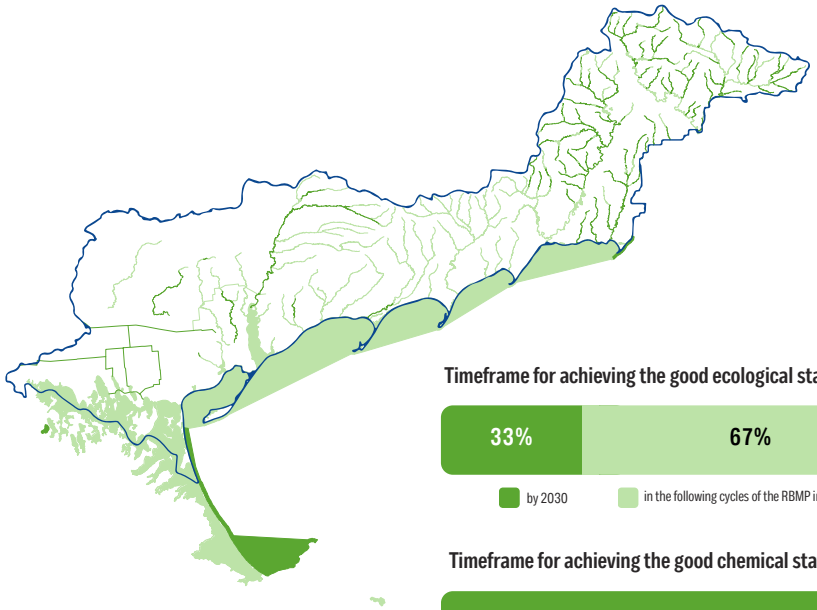
** WWTP – waste water treatment plant, SN – sewage network

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

RIVER BASIN MANAGEMENT PLAN – AZOV 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

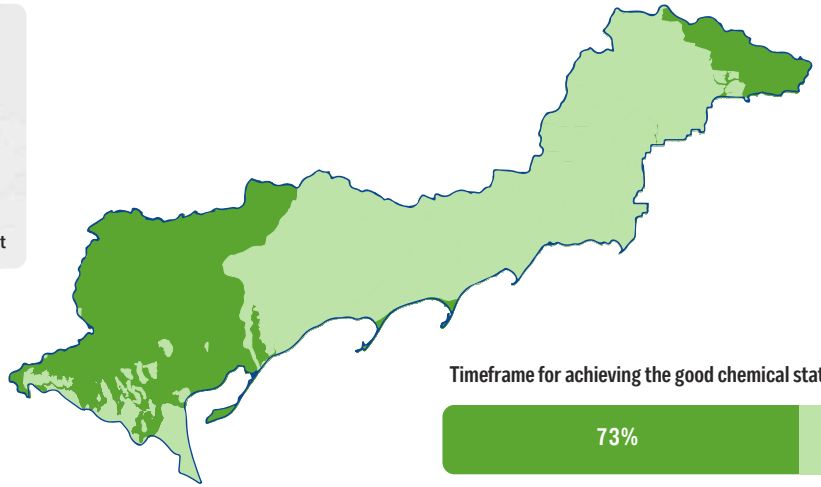
Timeframe for achieving the good ecological status of SWBs

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