Dear colleagues,

This is an EIONET consultation for updating the indicators CSI019 – Oxygen consuming substances in European rivers, and CSI020 – Nutrients in freshwater in Europe.

CSI019 measures the average biochemical oxygen demand (BOD) and ammonium concentrations in rivers. CSI020 measures the average nitrate and phosphate concentrations in rivers, the total phosphorus concentration in lakes and the nitrate concentration in groundwater. The indicators assesses the development of average concentrations in Europe (EU-27 and the EEA Member countries).

It is an update of both indicators to include the latest data from the 2021 WISE SoE datacall, thus adding an additional year (2020) to the time series. The indicators include two time series, the longer (starting 1992) includes fewer monitoring sites than the shorter one (starting in 2000). The source database is “Waterbase - Water Quality” (WISE-6) published on 11 May 2022 at [the EEA website](https://www.eea.europa.eu/data-and-maps/data/waterbase-water-quality-icm-2).

Background information on the methodological implementation is provided under the Supporting Information sections of both draft indicators. Input data and the results of the indicator computation are also provided in excel files (See the section - **Files attached to this consultation).**

The updated draft version of the indicators consists of the following:

**Oxygen consuming substances in European rivers, CSI019**

* BOD5 in rivers
* Ammonium in rivers

**Nutrients in freshwater in Europe, CSI020**

* Nitrate in groundwater
* Nitrate in rivers
* Phosphate in rivers
* Total phosphorus in lakes

We kindly invite your comments and suggestions to this indicator. The format is that of an EEA indicator assessment, but we have set this consultation through the talkback tool, as this enables us to manage comments in a structured way. Note that the indicator has not yet been through editing nor final graphical layout, so you do not need comments on these aspects at this time.

The indicators and supplementary documents can be found here:

CSI019

<https://forum.eionet.europa.eu/nrc-eionet-freshwater/library/oxygen-consuming-substances-european-rivers/eionet-consultation-oxygen-consuming-substances-european-rivers/2022-consultation-on-oxygen-consuming-substances-in-european-rivers-csi019>

CSI020

<https://forum.eionet.europa.eu/nrc-eionet-freshwater/library/nutrients-freshwater-europe/eionet-consultations-nutrients-rivers-lakes-and-groundwater/consultation-on-nutrients-in-freshwater-in-europe-csi020/>

For both indicators there are three sections:

Section 1 is the indicator assessment. This section provides assessment on the development in Europe at the EU level and status on country level.

Section 2 is the supporting information. This section provides information on policy relevance of this indicator, data availability, the methodological aspect, uncertainties, data and information references.

Section 3 is for general comments and questions.

Documents accompanying the consultations for both indicators are:

1 - Indicator assessment and supporting information in pdf format

2 - data and figures, present state 2022

3 - data and figures, time series and trend 2022

4 - WISE6 automatic QC tests

The consultations is open until **17th September 2022.**

You will need to log in to comment. In case you have forgotten your EIONET Account credentials, you can recover them using this form: <http://www.eionet.europa.eu/password-reset>

For technical support, please contact EIONET helpdesk [at: helpdesk@eionet.europa.eu](mailto:at: helpdesk@eionet.europa.eu   )

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We really appreciate it and look forward to receiving your comments.

Thank you very much for your expert assistance.

Kind regards,

Jorgen