

Estonian biological and chemical monitoring of priority and sea/river basic-specific substances



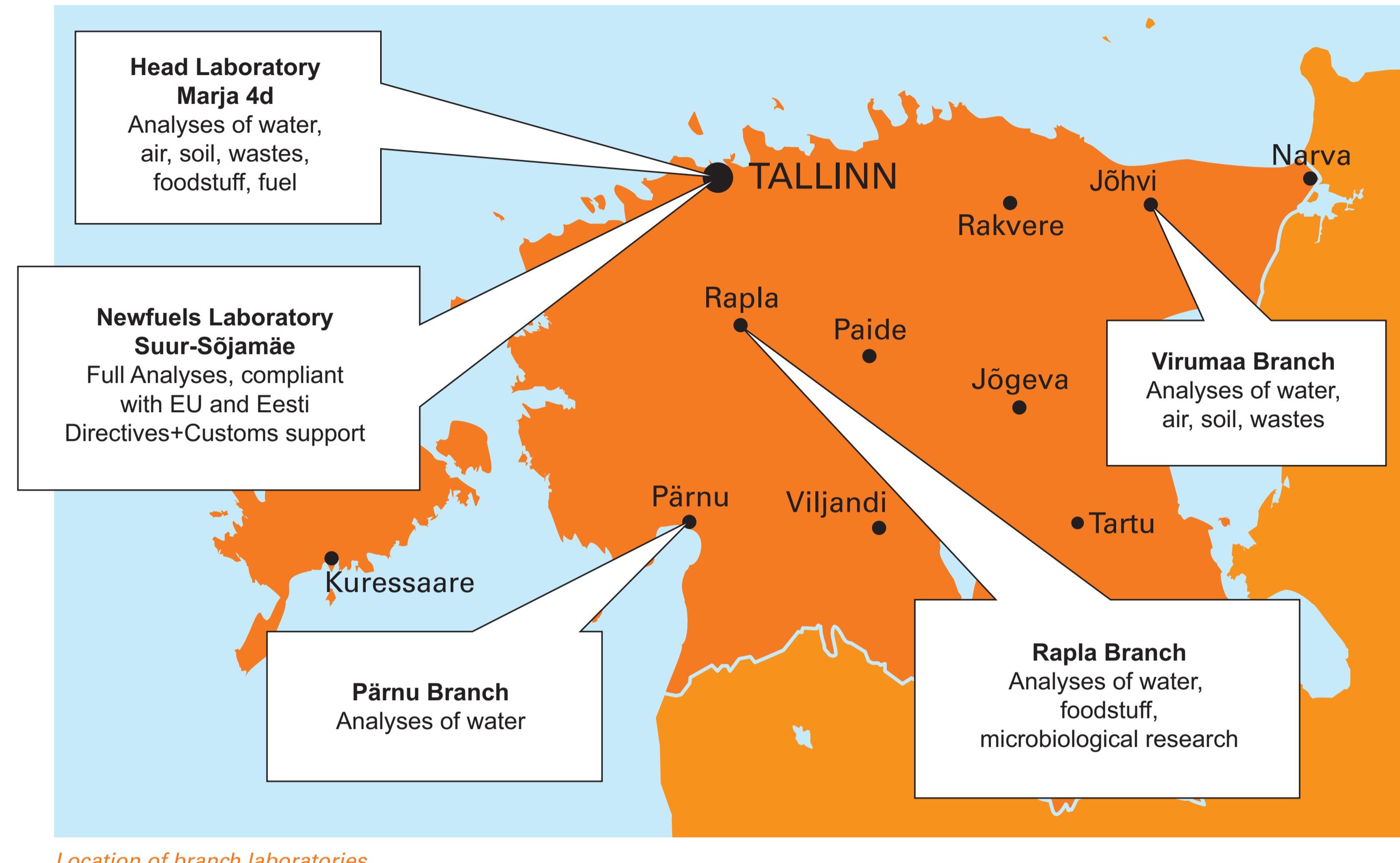
Kört M., Roots O., Kuningas K., Liitmaa M.

Estonian Environmental Research Centre



The building of EERC

The Estonian Environmental Research Centre (EERC) is state company specialised in chemical analyses in the field of environment protection. The EERC provides a comprehensive range of analyses for air, water, soil, food, fuel, etc. EERC facilities are well-equipped, enabling precise determination of environmentally dangerous substances in different sample types. The Centre is accredited by the German accreditation bureau Deutsches Akkreditierungssystem Prüfwesen GmbH (DAP) (Reg no DAP-PL-3131.99) and the Estonian Accreditation Centre (EAK) (Reg no L008).



Location of branch laboratories

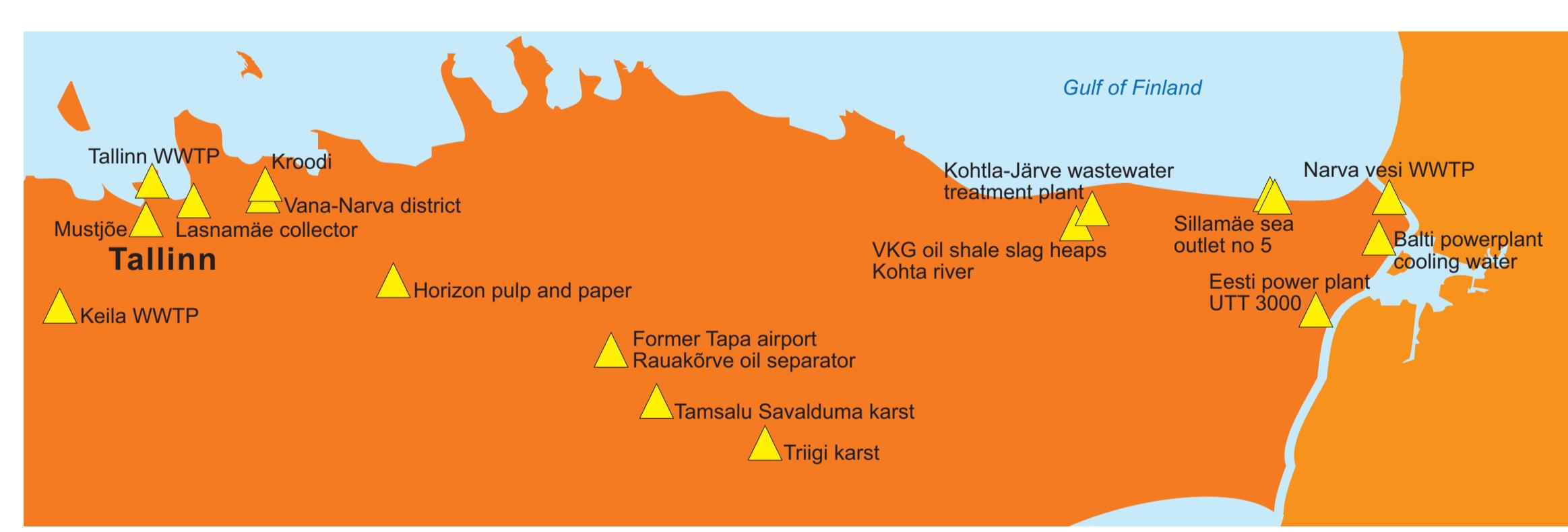
The Estonian National Environmental Monitoring Programme (NEMP)

The objective of Directive 2000/60/EC of the European Parliament and of the Council – Water Framework Directive – is to establish the framework for the protection of inland surface water, transitional waters, coastal waters and groundwater.

In order to fulfill the requirements arising from Directive 2000/60/EC and Council Directive 76/464/EEC all member states shall specify priority hazardous substances for surface water bodies at the national level.

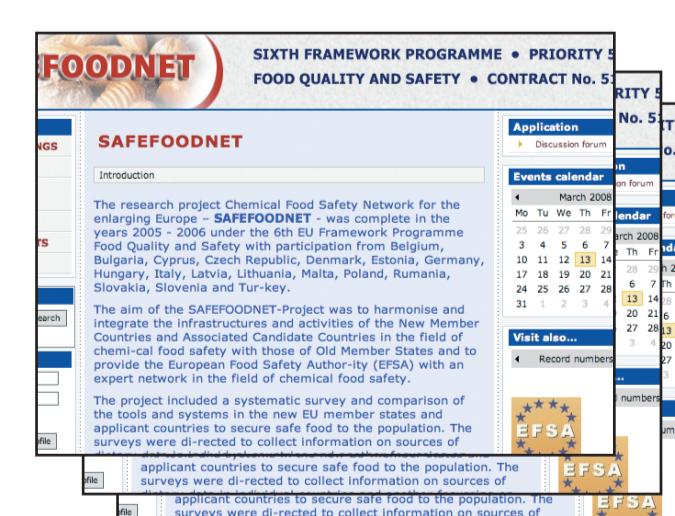
The Estonian National Environmental Monitoring Programme (NEMP) was initiated in 1994 (Roots, Saare, 1996). At present, there are altogether around 1,800 monitoring stations in the monitoring set of 68 sub-programmes of 11 monitoring themes, the number of measured parameters reaching 250 (Roose, Roots, 2005).

The implemented Estonian national environmental monitoring programme of hazardous substances, which follows EU and Helsinki Commission recommendations, covers all major problem areas, sites and aspects on a national scale. Operational monitoring by companies, required by the environmental permit system, complements the national network and gives the opportunity for detailed assessment of trends in waterbodies (Roose, Roots, 2005).



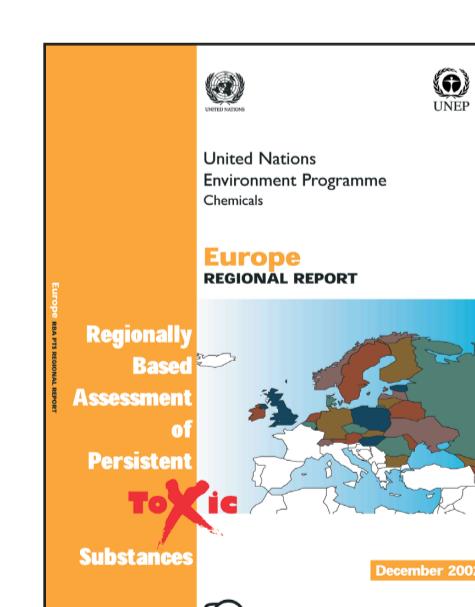
Monitoring of hazardous substances.
Location of sampling points in North-East Estonia (2002–2003)

Projects



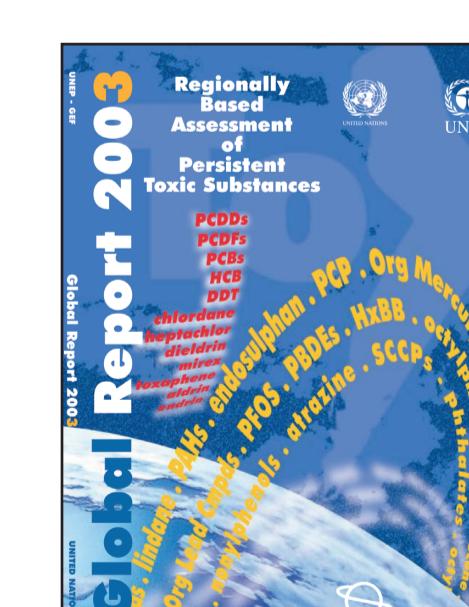
Sixth Framework Programme.
Priority 5. Food Quality and Safety.
"SAFEFOODNET PROJECT"

Contract no.: 513988
<http://www.safefoodnet.net>



Regionally Based Assessment of Persistent Toxic Substances. Europe Regional Report

UNEP Chemicals, UNEP/CHEMICALS/2003/3,
Printed at UN Geneva, 141p
<http://www.chem.unep.ch/pts> – European Report



Regionally Based Assessment of Persistent Toxic Substances. GLOBAL Report 2003

UNEP Chemicals, UNEP/CHEMICALS/2003/11,
Printed at UN Geneva, 207p
<http://www.chem.unep.ch/pts> – Global Report

References

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Structure and objectives of the Estonian Environmental Monitoring Program.
Environmental Monitoring and Assessment, 1996, 40:289-301;

• Roose A., Roots O.
Monitoring of Priority hazardous Substances in Estonian water bodies and in the coastal Baltic Sea.
BOREAL ENVIRONMENT RESEARCH. 2005, 10:89-102;

• Roots O., Simm M.
Polychlorinated dibenzo-p-dioxin, dibenzofuran and biphenyl content in selected groups of Baltic herring and sprat from Estonian coastal waters in 2006.
OCEANOLOGIA, 2007, 249 (3):293-303
(<http://www.iopan.gda.pl/oceanologia>).

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