

SUSTAINABLE USE OF WATER RESOURCES

WASTE WATER (WW)		
Sample type	Measurands	Planned period
Waste water I		
Pulp and paper industrial waste water	BOD ₇ , COD _{Cr} , COD _{Mn} , suspended solids, Na, TOC	Yearly
Municipal waste water		Ca, K, Mg every 3 rd year: 2021, 2024...
Natural water (BOD ₇ and COD _{Mn})	And Ca, K, Mg	
Waste water II		
Pulp and paper industrial waste water	N _{NH4} , N _{NO2+NO3} , N _{tot} , P _{PO4} , P _{tot} , pH, conductivity, colour	Yearly, and:
Municipal waste water	Alkalinity	Alkalinity every 2 nd year: 2020, 2022, 2024...
	Chloride, sulphate	Chloride and sulphate every 2 nd year: 2021, 2023, 2025...

NATURAL WATER (NW and RAD)		
Sample type	Measurands	Planned period
Natural water I		
Lake or river water	N _{NH4} , N _{NO2+NO3} , N _{tot} , P _{PO4} , P _{tot} , pH, conductivity,	Every 2 nd year
Coastal water	colour, turbidity, chlorophyll <i>a</i>	2021, 2023, 2025...
Natural water II		
Lake or river water	N _{NH4} , N _{NO2+NO3} , N _{tot} , P _{PO4} , P _{tot} , P _{PO4, dissolved} ,	Every 2 nd year
Coastal water	P _{tot, dissolved} , alkalinity, pH, conductivity	2020, 2022, 2024...
Natural water III		
Lake or river water	Chlorophyll <i>a</i> , oxygen, SiO ₂ , TOC, TIC, salinity	Every 2 nd year
Coastal water		2020, 2022, 2024...
Radon intercomparison		
Ground water	Radon	Every 2 nd year 2021, 2023, 2025...

DRINKING WATER (DW)		
Sample type	Measurands	Planned period
Drinking water		
Lake and ground water	Fluoride, hardness, chloride, pH, NO ₂ , NO ₃ , NH ₄ , Fe, Mn, Ca, K, Mg, Na, sulphate, conductivity	Yearly, and:
Drinking water	Alkalinity, turbidity, TOC	Alkalinity, turbidity and TOC every 2 nd year: 2021, 2023, 2025...
	COD _{Mn} , hardness	COD_{Mn} and hardness every 2 nd year: 2020, 2022, 2024...

BIOLOGICAL INTERCOMPARISONS (PHYTO AND ZOO)		
Sample type	Measurands	Planned period
Phytoplankton		
Phytoplankton (PHYTO)	Identification of species	Every 3 rd year 2020, 2023...
Benthic invertebrates		
Benthic invertebrates (ZOO)	Taxon identification	Every 3 rd or 4 th year 2020...

OTHER INTERCOMPARISONS		
Sample type	Measurands	Planned period
Field measurement intercomparison (KMV)		
Natural water	Conductivity, oxygen, pH, temperature, turbidity	Every 2 nd year 2020, 2022...

ProfTest SYKE will also organize development schemes outside this plan depending on the need of clients and the resources available, e.g. for AOX.

BUILT ENVIRONMENT

SWIMMING POOL WATER (SPW)		
Sample type	Measurands	Planned period
Swimming pool water analysis		
Swimming pool water	Free, combine and total chlorine, urea, turbidity, NO ₃ , pH, KMnO ₄	Yearly

INDOOR AIR AND BUILDING MATERIAL		
Sample type	Measurands	Planned period
Indoor air VOC measurements (IAVOC)		
Sample in Tenax TA tube	TVOC and separate VOC compounds	Yearly
Asbestos analysis of building material samples (ABS)		
Building material	Asbestos silicate minerals	Yearly

OTHER INTERCOMPARISONS		
Sample type	Measurands	Planned period
Calorific value (CAL)		
Coal, peat, wood pellet	Gross and net calorific value, moisture and ash content, volatile compounds, C, H, N, S	Yearly
Microbiological analyses used in housing and health studies (Provider THL)		
Building material and suspension sample	Dilution plate cultivation for identification and morphological detection of fungi	Yearly

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CIRCULAR ECONOMY

OTHER INTERCOMPARISONS		
Sample type	Test	Planned period
Leaching behavior test for solid waste material (LT)		
Waste material	Leaching behavior test for solid waste material: <ul style="list-style-type: none"> One stage batch leaching test Two stage batch leaching test Up-flow percolation test 	2022, 2026... 2020, 2024... 2021, 2025...

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HAZARDOUS SUBSTANCES

METAL ANALYSES (MET)		
Sample type	Measurands	Planned period
Water sample		
Spring: Lake or river water Drinking water: ground or tap water Autumn: Industrial waste water Municipal waste water In autumn also: Pulp and paper industrial waste water Also:	Basic analysis: Al, As, B, Ba, Cd, Co, Cr, Cu, Fe, Hg, Mn, Mo, Ni, Pb, Sb, Se, Ti, V, Zn Every 2 nd spring: U, Sr Ca, K, Mg Additionally, when analysed also from the solid sample: Ca, Mg, Sn, S	Twice a year 2020, 2022... 2021, 2024...
Solid sample		
Sediment Sludge Soil	Additional analyses: Ca (soil), Drw, Mg (soil), N _{tot} , P _{tot} , Sn (sludge), S, TC (sediment)	Yearly: Sediment 2022, 2025... Sludge 2020, 2023... Soil 2021, 2024...

COMPARISONS FOR ORGANIC COMPOUNDS		
Sample type	Measurands	Planned period
Organic I – Oil hydrocarbons (OIL)		
Natural water Soil	Oil hydrocarbons C5-C10, >C10–C40, >C10-C21, >C21-C40	Every 2 nd year 2021, 2023, 2025...
Organic II – VOC compounds (VOC)		
Natural water Soil	VOC compounds	Every 3 rd year 2022, 2025...
Organic III – PCB compounds (PCB)		
Soil or sediment	Selected congeners and Σ PCB ₇ (sum of PCB congeners 28, 52, 101, 118, 138, 153, and 180)	Every 3 rd year 2021, 2024...
Organic IV – Trihalomethanes in water (THM)		
Swimming pool water	Dibromochloromethane, bromoform, bromodichloromethane, chloroform	Every 2 nd year 2021, 2023, 2025...

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