

Annex to declaration of accreditation (scope of accreditation)
Normative document: EN ISO/IEC 17025:2017
Registration number: **L 026**

of **TNO (KvK-nummer 27376655)**
Circular Economy & Environment - Environmental Modelling, Sensing & Analysis

This annex is valid from: **08-12-2021** to **01-02-2023** Replaces annex dated: **10-02-2021**
Prolonged until 01-04-2023

Location(s) where activities are performed under accreditation

Head Office

Princetonlaan 8
3584 CB
Utrecht
The Netherlands

Location	Abbreviation/ location code
Princetonlaan 8 3584 CB Utrecht The Netherlands	UTR

This annex has been approved by the Board of the
Dutch Accreditation Council, on its behalf,

J.A.W.M. de Haas
Director of Operations

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No.	Material or product	Type of activity ¹	Internal reference number	Location
Organic Analysis (OC)				
1	Drinking water, groundwater and surface water	Determination of the content of pesticides; LC-MS/MS abamectin, aldicarb, azoconazole, azoxystrobin, bitertanol, carbendazim, chlortoluron, chloridazon, cyazofamid, cycloxdim cyproconazole, difenoconazole, diflubenzuron, diuron, dodine, fenarimol, fenbutatin, fenhexamid, phenmedipham, flutolanil, hexythiazox, imazalil, imidacloprid, isoproturon, isoxaflutole, lenacil, linuron, metabenzthiazuron, metalaxyl, metamitron, methomyl, metobromuron, metoxuron, metsulfuron methyl, monolinuron, monuron, nicosulfuron, oxamyl, penconazole, pencycuron, propyconazole, prosulfuron, pymetrozine, pyridate, rimsulfuron, sulcotrione, tebuconazole, teflubenzuron, thiabendazole, thiacloprid, triadimenol, triasulfuron, triflusulfuron methyl	ORG-221 in house method	UTR
2	Drinking water, groundwater and surface water	Determination of the content of pesticides; GC-MS/MS 2,4-D, 2,4-dinitrophenol, 2,6-dichlorobenzamide (BAM), 2 aminoacetophenone, acclonifen, aldrin, alpha-endosulfan, anthraquinone, atrazine, bentazone, bifenox, bifenthrin, bromoxynil, phenol, bupirimate, carbaryl, carbofuran, chlorfenvinphos, chlorpropham, chlorpyrifos, cinidon-methyl, clomazone, clopyralid, cyfluthrin, cypermethrin, cyprodinil, DEET (n,n-diethyl-3-methylbenzamide), deltamethrin, diazinon, dicamba, dichlobenil, dichlofluanide, dichlorprop, dichlorvos, diflufenican, dimethenamid, dimethoate, dinoterb, dodemorph, esfenthalerate, ethofumesate, ethoprophos, etridiazole, famoxadone, fenamiphos, fenitrothion, fenoxycarb, fenpropimorph, fenvalerate, fluazifop-butyl, fluroxypyr, gamma-HCH (lindane), haloxyfop-P-methyl, ioxynil, phenol, iprodione, kresoxim-methyl, lambda-cyhalothrin, malathion, MCPA, MCPP (mecoprop), metazachlor, methiocarb, metolachlor, metribuzin, oxydemeton-methyl, parathion (-ethyl), parathion-methyl, pendimethalin, permethrin, primicarb, pirimiphos-methyl, procymidone, propoxur, propyzamide, prosulfocarb, pyrimethanil, simazine, tebufenpyrad, terbutryn, terbuthylazine, tetramethrin, toclofos-methyl, tolylfluanid, triallate, triazamate, triclopyr, trifloxystrobin, vinchlozolin	ORG-222 in house method	UTR

¹ If there is a referral to a code starting with NAW, NAP, EA or IAF, this concerns a scheme mentioned on the [RvA-BR010-lijst](#).
 If no date or version number is mentioned for a normative document, the accreditation concerns the most current version of the document or scheme.

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3	Thermal desorption tubes of air	Determination of the content of volatile organic hydrocarbons having a boiling point between 60 and 250 °C on thermal desorption tubes; GC-MS 2-methylpentane, 3-methylpentane, n-hexane, methylcyclopentane, 2,4-dimethylpentane, 2-methylhexane, 3-methylhexane, 2,2,4-trimethylpentane, n-heptane, methylcyclohexane, 2,4-dimethylhexane, 3-methylheptane, n-octane, n-nonane, n-decane, n-undecane, benzene, toluene, ethylbenzene, o-xylene, p/m-xylene, styrene, iso-propylbenzene, n-propylbenzene, 2-ethyltoluene, 3-ethyltoluene, 4-ethyltoluene, 1,3,5-trimethylbenzene, 1,2,4-trimethylbenzene, 1,2,3-trimethylbenzene, naftalene, chlorobenzene, 1,4-dichlorobenzene, trichloromethane, 1,1,1-trichloroethane, 1,2-dichloroethane, tetrachloromethane, trichloroethene, tetrachloroethene	ORG-141 in house method	UTR
4	Adsorption material of air and smoke and combustion gases	Determination of the content of polycyclic aromatic hydrocarbons; isotopedilution and GC-MS phenantrene, anthracene, fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, dibenzo(a,h)anthracene and benzo(ghi)pyrelene	ORG-217 ambient air: ISO 12884 other matrices: in house method	UTR
5	Adsorption material of air and smoke and combustion gases	Determination of the content of PAK (benzo(a)pyrene; isotope dilution and GCMS	ORG-217 EN 15549	UTR
6	Water, sediment and soil	Determination of the content of polycyclic aromatic hydrocarbons; isotope dilution and GC-MS naphthalene, acenaphthylene, acenaphthene, fluorene, phenantrene, anthracene, fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, dibenzo(ah)anthracene and benzo(ghi)pyrelene	ORG-217 in house method	UTR

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7	Adsorption material of air and smoke gases	Determination of the content of volatile carbonyl compounds; HPLC-UV DNPH-methods formaldehyde, acetaldehyde, acrolein and acetone	ORG-023 indoor air: ISO 16000 part 3 ambient air: NVN 2795 smoke gasses: in house method	UTR
Microscopy and Material Analysis (M&M)				
8	Filters of air	Determination of numerical concentration of asbestos and other inorganic fibrous particles; SEM/EDX	M&M-005 ISO 14966	UTR
Inorganic Analysis (AC)				
9	Rainwater	Determination of electric conductivity (EC); conductometry	AC-W-018 in house method	UTR
10	Rainwater	Determination of the content of orthophosphate; photometry (CFA)	AC-W-023 (determination) NEN-EN-ISO 15681-2 AC-W-068 (pre-treatment rainwater) in house method	UTR
11	Rainwater	Determination of the content of NH ₄ ; photometry (CFA)	AC-W-027 NH4 in house method AC-W-062 COTAG (pre-treatment dry deposition)	UTR
12	Rainwater	Determination of the content of ammonium; photometry (CFA)	AC-W-027 (determination) NEN-EN-ISO 11732 AC-W-068 (pre-treatment rainwater) in house method	UTR
13	Air dust on filter	Determination of the content of ammonium; photometry (CFA)	AC-W-027 (determination) NEN-EN-ISO 11732 AC-W-039 (pre-treatment air filter) in house method	UTR
14	Rainwater	Determination of pH and the content of acid or base consumption; titrimetry	AC-W-015 in house method	UTR

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15	Rainwater	Determination of the content of chloride, nitrate, sulphate, and fluoride; ion chromatography	AC-W-060 (determination) in house method AC-W-068 (pre-treatment rainwater) in house method	UTR

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16	Air dust on filter	Determination of the content of chloride, nitrate and sulphate; ion chromatography	AC-W-060 (determination) in house method AC-W-039 (pre-treatment air filter) in house method	UTR
17	Rainwater	Determination of the content of elements; ICP-MS arsenic, calcium, cadmium, cobalt, chromium, copper, iron, potassium, magnesium, sodium, nickel, lead, vanadium, and zinc	AC-W-040 in house method	UTR
18	Air dust (aerosols) on filter	Determination of the content of elements; ICP-MS HR arsenic, calcium, cadmium, nickel, lead, magnesium, zinc, acid digestible potassium and acid digestible sodium	AC-W-034 (determination) in house method AC-W-037 (destruction filters) in house method	UTR
19	Rainwater	Determination of the content of mercury; atomic fluorescence spectrometry (AFS)	AC-W-035 in house method	UTR