

of **Eurofins Analytico B.V.**
Barneveld

Valid from: **04-03-2010** till **01-04-2013**

Replaces appendix dated: **05-11-2009**

Location Barneveld

Nr.	Material or product	Type of activity / investigation method	Internal reference number
Leaching test			
a	Soil and waste materials	Determination of the emission by means of a one or two stage batch test L/S 10 and L/S 2-8 on particles < 4 mm	W0155 in accordance with NEN-EN 13370 and in accordance with NEN-EN 12457-1 to 3
Inorganic analysis (physical-chemical)			
1	Field-moist soil	Determination of dry matter content; gravimetry	W0104 equivalent to NEN-ISO 11465
2	Sludge and sediment	Determination of dry matter content; gravimetry	W0104 equivalent to NEN-EN 12880
3	Wastewater	Determination of the total residue on evaporation after drying; gravimetry	W0113 in accordance with NEN 6499 and in accordance with NEN-EN 15216
4	Sediment	Determination of the density; gravimetry	W0114 in house method
5	Soil and sediment	Determination of clay content and the particle size distribution; sieve and pipette	W0105 and W0173 in accordance with NEN 5753
6		Determination of the particle size distribution; laser diffraction	W0174 in accordance with ISO 13320-1 (pre-treatment in accordance with ISO 11277)

This annex has been approved by:

Ir. J.C. van der Poel
Chief Executive

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Nr.	Material or product	Type of activity / investigation method	Internal reference number
7	Soil and sediment	Determination of clay content; laser diffraction	W0176 in accordance with ISO 13320-1 (pre-treatment in accordance with ISO 11277)
8	Soil	Determination of organic matter content; loss-on-ignition method	W0109 in accordance with NEN 5754
9	Wastewater	Determination of the total residue on evaporation; loss-on-ignition method	W0113 in accordance with NEN 6499 and NEN-EN 12879
10	Sludge and sediment	Determination of the total residue on evaporation; loss-on-ignition method	W0109 equivalent to NEN-EN 12879
11	Soil	Determination of the content of carbonates, expressed as calcium carbonate (calcite); volumetry	W0177 equivalent to NEN-ISO 10693
12	Sand and clay	Determination of clay content; sieve and pipette	W0171 equivalent to NEN 5753
13	Drinking water and surface water	Determination of the content of suspended solids and its ignition residue; gravimetry	W0552 in accordance with NEN 6499 and equivalent to NEN 6484
14	Wastewater and sludge	Determination of the content of suspended solids and its ignition residue; gravimetry	W0552 in accordance with NEN 6499 and equivalent to NEN-EN 12879
15	Wastewater, drinking water, groundwater and surface water	Determination of the content of suspended solids; gravimetry	W0587 in accordance with NEN 6499 and in accordance with NEN-EN 872
16	Wastewater	Determination of the fat content; gravimetry	W0555 in house method
17	Wastewater and mixtures of sludge/water	Determination of the amount of settleable solids	W0558 in accordance with NEN 6499 and in accordance with NEN 6623

Appendix to ISO/IEC 17025 accreditation certificate
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Nr.	Material or product	Type of activity / investigation method	Internal reference number
Inorganic analysis (classical chemical)			
18	Wastewater, drinking water, groundwater, water from boiler plants, surface water and seawater	Determination of electrical conductivity; conductometry	W0506 in accordance with NEN-ISO 7888
19	Soil and sediment	Determination of electrical conductivity; conductometry	W0506 in accordance with NEN 5749
20	Wastewater, drinking water, groundwater, water from boiler plants, surface water and seawater	Determination of pH; potentiometry	W0524 in accordance with NEN-ISO 10523
21	(Sewage) sludge	Determination of pH; potentiometry	W0524 in accordance with NEN-EN 12176
22	Soil and sediment	Determination of pH-CaCl ₂ and pH-KCl; potentiometry	W0524 in accordance with NEN-ISO 10390
23	Wastewater, drinking water and groundwater	Determination of the content of fluoride; potentiometry	W0546 in accordance with NEN 6483
24	Wastewater, groundwater and surface water	Determination of biochemical oxygen demand	W0556 in accordance with NEN-EN 1899-1 and NEN-ISO 5814 (EN 25814)

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Nr.	Material or product	Type of activity / investigation method	Internal reference number
25	Wastewater, drinking water, groundwater, water from boiler plants, surface water, seawater and (sewage) sludge	Determination of chemical oxygen demand; titrimetry	W0553 in accordance with NEN 6633 (2006) and NEN 6633/A1 (2007)
26	Drinking water and water from boiler plants	Determination of permanganate index; titrimetry	W0508 in accordance with NEN-EN-ISO 8467
27	Wastewater and groundwater	Determination of permanganate index; titrimetry	W0508 in house method (analysis in accordance with NEN-EN-ISO 8467)
28	Water from boiler plants	Determination of the alkalinity (the P- and M-number); titrimetry	W0545 in accordance with NEN-EN-ISO 9963-1
29	Wastewater and groundwater	Determination of the total alkalinity (M-number); titrimetry	W0545 in accordance with NEN-EN-ISO 9963-1
30	Wastewater, drinking water and surface water	Determination of Kjeldahl nitrogen; spectrophotometry	W0554 in house method (mineralization in accordance with NEN-ISO 5663 and analysis in accordance with NEN 6604)
31	Wastewater, groundwater and water from boiler plants	Determination of the content of monomeric silicate; spectrometry	W0561 in accordance with NF T90-007
32	Wastewater, drinking water and groundwater	Determination of the content of anionic surfactants; spectrometry	W0578 in accordance with WAC/III/D/040

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Nr.	Material or product	Type of activity / investigation method	Internal reference number
33	Wastewater, drinking water, groundwater and surface water	Determination of the content of total cyanide and free cyanide; continuous flow analysis and spectrometry	W0517 in accordance with NEN-EN-ISO 14403
34	Soil	Determination of the content of total cyanide and free cyanide; continuous flow analysis and spectrometry	W0117 and W0517 in accordance with NEN-ISO 17380
35	Wastewater, groundwater, water from boiler plants and surface water	Determination of the content of sulphate; continuous flow analysis and spectrometry	W0522 in accordance with NEN 6654 (1992)
36	Wastewater, groundwater and surface water	Determination of phenol index; continuous flow analysis and spectrometry	W0544 in accordance with NEN-EN-ISO 14402
37	Eluates	Determination of phenol index; continuous flow analysis and spectrometry	W0544 in accordance with NEN-EN 13370 and in accordance with NEN-EN-ISO 14402
38	Soil and building materials	Determination of phenol index; continuous flow analysis and spectrometry	W0544 in house method (analysis in accordance with NEN-EN-ISO 14402)
39	Wastewater, drinking water, groundwater, water from boiler plants and surface water	Determination of the content of ions; discrete analysis and spectrometry ammonium, chloride, nitrate, nitrite and ortho-phosphate	W0566 in accordance with NEN 6604
40	Groundwater	Determination of the content of dissolved anions; liquid chromatography of ions chloride, bromide, sulphate, nitrite, nitrate and fluoride	W0504 in accordance with NEN-EN-ISO 10304-1
41	Eluates	Determination of the content of dissolved anions; liquid chromatography of ions chloride, bromide, sulphate and fluoride	W0504 in accordance with NEN-EN-ISO 10304-1

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Nr.	Material or product	Type of activity / investigation method	Internal reference number
42	Groundwater and eluates	Determination of the content of chromium VI; liquid chromatography of ions	W0588 in house method (analysis in accordance with NEN-EN 15192)
Inorganic analysis (element determinations)			
43	Soil, sediment and destruates of solid matrices	Determination of the content of elements; inductively coupled plasma with mass spectrometry aluminium, antimony, arsenic, barium, cadmium, calcium, chromium, phosphor, potassium, cobalt, copper, mercury, lead, magnesium, manganese, molybdenum, sodium, nickel, selenium, tin, titanium, vanadium, iron, zinc and sulphur	W0107 and W0420 in accordance with NEN-EN-ISO 17294-2 (digestion in accordance with NEN 6961)
44	Wastewater and surface water	Determination of the content of elements; inductively coupled plasma with mass spectrometry aluminium, antimony, arsenic, barium, cadmium, calcium, chromium, phosphor, potassium, cobalt, copper, mercury, lead, magnesium, manganese, molybdenum, sodium, nickel, selenium, tin, titanium, vanadium, iron, zinc and sulphur	W0108 and W0420 in accordance with NEN-EN-ISO 17294-2 (in house digestion-method)
45	Groundwater and eluates	Determination of the content of elements; inductively coupled plasma with mass spectrometry aluminium, antimony, arsenic, beryllium, barium, cadmium, calcium, chromium, potassium, cobalt, copper, mercury, lead, magnesium, manganese, molybdenum, sodium, nickel, selenium, tin, titanium, vanadium, iron and zinc	W0108, W0420 and W0421 in accordance with NEN-EN-ISO 17294-2
46	Wastewater, drinking water, groundwater, water from boiler plants, surface water, seawater and (sewage) sludge	Determination of the total hardness; inductively coupled plasma with mass spectrometry	W0108, W0420 and W0421 in house method
Organic analysis			
47	Soil and sediment	Determination of the halogen content originated from non-volatile with acetone and petroleum ether extractable organohalogen compounds (EOX); microcoulometry	W0120, W0132 and W0351 in house method

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Nr.	Material or product	Type of activity / investigation method	Internal reference number
48	Drinking water, groundwater and surface water	Determination of the halogen content derived from non-volatile, with petroleum ether extractable organohalogen compounds (EOX); microcoulometry	W0130 and W0351 in house method
49	Wastewater	Determination of the content of petroleum ether extractable organically bound halogens (EOX-AW); microcoulometry	W0130 and W0351 in accordance with NEN 6676
50	Soil and sediment	Determination of the hydrocarbon oil index; gas chromatography with flame-ionisation detection	W0120, W0132 and W0202 in house method
51	Wastewater, drinking water, groundwater and surface water	Determination of the hydrocarbon oil index; large volume injection – gas chromatography with flame-ionisation detection	W0123 and W0215 in house method
52		Determination of the hydrocarbon oil index; gas chromatography with flame-ionisation detection	W0123 and W0215 in accordance with NEN-EN-ISO 9377-2
53	Soil	Determination of the content of volatile hydrocarbons (fraction C ₆ -C ₁₂); gas chromatography with flame-ionisation detection	W0136 and W0216 in house method
54	Wastewater, drinking water, groundwater and surface water	Determination of the content of volatile hydrocarbons (fraction C ₆ -C ₁₂); gas chromatography with flame-ionisation detection	W0122 and W0216 in house method
55		Determination of the content of volatile components; static headspace – gas chromatography with mass spectrometry dichloromethane, trichloromethane, tetrachloromethane, 1,1-dichloroethane, 1,2-dichloroethane, 1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,1-dichloroethylene, cis-1,2-dichloroethylene, trans-1,2-dichloroethylene, trichloroethylene, tetrachloroethylene, monochlorobenzene, 1,2-dichlorobenzene, 1,3-dichlorobenzene and 1,4-dichlorobenzene	W0122 and W0254 in accordance with NEN-EN-ISO 10301 (preservation in accordance with NEN-EN-ISO 5667-3)
56		Determination of the content of volatile components; static headspace – gas chromatography with mass spectrometry benzene, toluene, ethylbenzene, xylenes, naphthalene and styrene	W0122 and W0254 in accordance with ISO 11423-1 (preservation in accordance with NEN-EN-ISO 5667-3)

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Nr.	Material or product	Type of activity / investigation method	Internal reference number
57	Wastewater, drinking water, groundwater and surface water	Determination of the content of volatile components; static headspace – gas chromatography with mass spectrometry propylbenzene, 1,2,3-trimethylbenzene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, vinyl chloride, methyltertiarybutylether (MTBE), ethyltertiarybutylether (ETBE) and tertiaryamylmethylether (TAME)	W0122 and W0254 in house method
58	Soil	Determination of the content of volatile components; static headspace – gas chromatography with mass spectrometry benzene, toluene, ethylbenzene, xylenes, naphthalene, styrene, vinyl chloride, dichloromethane, trichloromethane, tetrachloromethane, 1,1-dichloroethane, 1,2-dichloroethane, 1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,1-dichloroethylene, cis-1,2-dichloroethylene, trans-1,2-dichloroethylene, trichloroethylene, tetrachloroethylene, monochlorobenzene, 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, propylbenzene, pentane, hexane, heptane, octane, 1,2,3-trimethylbenzene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene methyltertiarybutylether (MTBE), ethyltertiarybutylether (ETBE) and tertiaryamylmethylether (TAME)	W0136, W0132 and W0254 in accordance with NEN 6981 (extraction in accordance with NEN 6973)
59	Soil and sediment	Determination of the content of organochloropesticides and polychlorinated biphenyls; gas chromatography – mass spectrometry alpha-HCH, beta-HCH, gamma-HCH, delta-HCH, epsilon-HCH, pentachlorobenzene, HCB, heptachlor, aldrin, telodrin, isodrin, heptachloroepoxide, hexachlorobutadiene, alpha-endosulphan, beta-endosulphan, alpha-chlordane, gamma-chlordane, o,p'-DDE, p,p'-DDE, o,p'-DDD, p,p'-DDD, dieldrin, endrin, o,p'-DDT, p,p'-DDT, endosulphansulphate, PCB 28, PCB 52, PCB 101, PCB 118, PCB 138, PCB 153 and PCB 180	W0120 and W0262 in house method
60	Drinking water, groundwater and surface water	Determination of the content of organochloropesticides and polychlorinated biphenyls; large volume injection – gas chromatography – mass spectrometry alpha-HCH, beta-HCH, gamma-HCH, delta-HCH, epsilon-HCH, pentachlorobenzene, HCB, heptachlor, aldrin, telodrin, isodrin, heptachloroepoxide, hexachlorobutadiene, alpha-endosulphan, beta-endosulphan, alpha-chlordane, gamma-chlordane, o,p'-DDE, p,p'-DDE, o,p'-DDD, p,p'-DDD, dieldrin, endrin, o,p'-DDT, p,p'-DDT, endosulphansulphate, PCB 28, PCB 52, PCB 101, PCB118, PCB 138, PCB 153 and PCB 180	W0137 and W0260 in house method

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61	Wastewater, groundwater and surface water	Determination of the content of polycyclic aromatic hydrocarbons; high performance liquid chromatography with UV- and fluorescence detection naphthalene, acenaphthylene, acenaphthene, fluorene, phenanthrene, anthracene, fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, dibenzo(a,h)anthracene, benzo(g,h,i)perylene and indeno(1,2,3-c,d)pyrene	W0130 and W0301 in house method
62	Groundwater	Determination of the content of polycyclic aromatic hydrocarbons; on-line solid phase extraction and high performance liquid chromatography with UV- and fluorescence detection naphthalene, acenaphthylene, acenaphthene, fluorene, phenanthrene, anthracene, fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, dibenzo(a,h)anthracene, benzo(g,h,i)perylene and indeno(1,2,3-c,d)pyrene	W0130 and W0302 in house method
63	Soil and sediment	Determination of the content of polycyclic aromatic hydrocarbons; high performance liquid chromatography with UV- and fluorescence detection naphthalene, acenaphthylene, acenaphthene, fluorene, phenanthrene, anthracene, fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, dibenzo(a,h)anthracene, benzo(g,h,i)perylene and indeno(1,2,3-c,d)pyrene	W0120 and W0301 in accordance with NEN 6977 (extraction in accordance with NEN 6971, cleanup in accordance with NEN 6976)

Location Oosterhout and Barneveld

Nr.	Material or product	Type of activity / investigation method	Internal reference number
Inorganic analysis (element determination)			
64	Drinking water and groundwater	Determination of the content of boron and silver; inductively coupled plasma – atomic emission spectrometry	W6410 and W7404 in accordance with NEN-EN-ISO 11885
65	Wastewater	Determination of the content of boron and silver; inductively coupled plasma – atomic emission spectrometry	W6181, W6412 and W7404 in accordance with NEN-EN-ISO 11885 (digestion in accordance with NEN-EN-ISO 15587-1)
66		Determination of the content of mercury; atomic absorption spectrometry (cold vapour)	W6181 and W6432 in accordance with NEN-EN 1483 (digestion in accordance with NEN-EN-ISO 15587-1)
Organic analysis			
67	Wastewater and groundwater	Determination of the halogen content derived from volatile organohalogen compounds (VOX); microcoulometry	W7354 in house method (sample preservation in house method, analysis in accordance with NEN 6401)
68	Soil	Determination of the aromatic fraction, the aliphatic fraction and the content of total petroleum hydrocarbons (TPH); gas chromatography with flame-ionisation detection	W6161 and W6261 in house method
69	Groundwater	Determination of the aromatic fraction, the aliphatic fraction and the content of total petroleum hydrocarbons (TPH); gas chromatography with flame-ionisation detection	W6162 and W6263 in house method
Tests forming part of TerrAttesT® Soil			
70	Soil and sediment	Determination of dry matter content; gravimetry	W6110 in house method
71	Soil	Determination of clay content; pipette method	W7172 in house method

Appendix to ISO/IEC 17025 accreditation certificate
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Nr.	Material or product	Type of activity / investigation method	Internal reference number
72	Soil and sediment	Determination of loss on evaporation after ignition and the total residue on evaporation after ignition; gravimetry	W6517 in accordance with NEN 5754
73	Soil	Determination of organic matter content as loss-on-ignition; gravimetry	W6517 in accordance with NEN 5754
74	Soil and sediment	Determination of the content of elements; inductively coupled plasma – atomic emission spectrometry aluminium, antimony, arsenic, barium, boron, beryllium, cadmium, calcium, chromium, phosphor, cobalt, copper, lead, magnesium, manganese, molybdenum, nickel, selenium, tin, titanium, vanadium, iron, silver, zinc and sulphur	W6401 and W6184 in accordance with NEN 6966 (digestion in accordance with NEN 6961)
75		Determination of the mercury content; cold vapour – atomic absorption spectrometry	W7424 and W6184 in accordance with NEN-ISO 16772 (digestion in accordance with NEN 6961)
76	Soil	Determination of the hydrocarbon oil index; large volume injection – gas chromatography with flame-ionisation detection	W6330, W6128 and W6237 in house method

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77	Soil	<p>Determination of organic contaminations; gas chromatography with mass spectrometry</p> <p>Aromatic compounds Monoaromatic hydrocarbons: benzene, ethylbenzene, toluene, o-xylene, m,p-xylene, styrene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, n-propylbenzene, isopropylbenzene (cumene), n-butylbenzene, sec-butylbenzene, tert-butylbenzene and p-isopropyltoluene Phenols: phenol, o-cresol, m-cresol, p-cresol, 2,4-dimethylphenol, 2,5-dimethylphenol, 2,6-dimethylphenol, 3,4-dimethylphenol, o-ethylphenol, m-ethylphenol, thymol, 4-ethyl/2,3- and 3,5-dimethylphenol Polycyclic aromatic hydrocarbons: naphthalene, acenaphthylene, acenaphthene, fluorene, phenanthrene, anthracene, fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, dibenzo(a,h)anthracene, benzo(g,h,i)perylene and indeno(1,2,3-c,d)pyrene</p> <p>Halogenated compounds Volatile halogenated components: tetrachloromethane, 1,2-dichloroethane, 1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,1,1,2-tetrachloroethane, 1,1,2,2-tetrachloroethane, trichloroethylene, tetrachloroethylene, 1,2-dichloropropane, 1,3-dichloropropane, 1,2,3-trichloropropane, 1,1-dichloropropene, cis-1,3-dichloropropene, trans-1,3-dichloropropene, dibromomethane, 1,2-dibromoethane, tribromomethane (bromoform), bromodichloromethane, dibromochloromethane, 1,2-dibromo-3-chloropropane and bromobenzene Chlorobenzenes: monochlorobenzene, 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, dichlorobenzenes (sum), 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, 1,3,5-trichlorobenzene, trichlorobenzenes (sum), 1,2,3,4-tetrachlorobenzene, 1,2,3,5/1,2,4,5-tetrachlorobenzene, tetrachlorobenzene (sum), pentachlorobenzene and hexachlorobenzene</p>	<p>W6330, W6128 and W6331 in house method</p>

Location Oosterhout and Barneveld

Nr.	Material or product	Type of activity / investigation method	Internal reference number
	Soil	<p>Halogenated compounds (continued)</p> <p>Chlorophenols: 2-chlorophenol, 3-chlorophenol, 4-chlorophenol, 2,3-dichlorophenol, 2,4/2,5-dichlorophenol, 2,6-dichlorophenol, 3,4-dichlorophenol, 3,5-dichlorophenol, 2,3,4-trichlorophenol, 2,3,5-trichlorophenol, 2,3,6-trichlorophenol, 2,4,5-trichlorophenol, 2,4,6-trichlorophenol, 3,4,5-trichlorophenol, 2,3,4,5-tetrachlorophenol, 2,3,4,6/2,3,5,6-tetrachlorophenol, pentachlorophenol and 4-chloro-3-methylphenol</p> <p>Polychlorinated biphenyls: PCB 28, PCB 52, PCB 101, PCB 118, PCB 138, PCB 153 and PCB 180</p> <p>Chloronitrobenzenes: 2/4-chloronitrobenzene, 3-chloronitrobenzene, 2,3-dichloronitrobenzene + 3,4-dichloronitrobenzene, 2,4-dichloronitrobenzene, 2,5-dichloronitrobenzene and 3,5-dichloronitrobenzene</p> <p>Miscellaneous chlorinated hydrocarbons: 2-chlorotolueen, 4-chlorotolueen and 1-chloronaphthalene</p> <p>Pesticides</p> <p>Organic chlorinated pesticides: p,p'-DDE, o,p'-DDE, p,p'-DDT, p,p'-DDD/o,p'-DDT, o,p'-DDD, aldrin, dieldrin, endrin, alpha-HCH, beta-HCH, gamma-HCH, alpha-endosulphansulphate, alpha-chlordane, gamma-chlordane, heptachlor, heptachloroepoxide, hexachlorobutadiene, isodrin, telodrin and tedion</p> <p>Organic phosphor pesticides: azinphos-ethyl, azinphos-methyl, bromophos-ethyl, bromophos-methyl, chloropyrophos-ethyl, chloropyrophos-methyl, cumaphos, demeton-S/demeton-O, diazinone, disulphotone, fenitrothion, fenthion, malathion, parathion-ethyl, parathion-methyl, pyrazophos and triazophos</p> <p>Organic nitrogen pesticides: ametryn, atrazine, cyanazin, desmetryn, prometryn, propazine, simazine, terbutylazine and terbutryn</p> <p>Miscellaneous pesticides: bifenthrine, cypermethrin A, cypermethrin B, cypermethrin C, cypermethrin D, deltamethrin, permethrin A + permethrin B, propachlor and trifluralin</p> <p>Miscellaneous organic contaminants</p> <p>biphenyl, nitrobenzene and dibenzofurane</p> <p>Phthalates: dimethylphthalate, diethylphthalate, di-isobutylphthalate, dibutylphthalate, butylbenzylphthalate, bis(2-ethylhexyl)phthalate and di-n-octylphthalate</p>	
Tests forming part of TerrAttesT® Water			
78	Drinking water and groundwater	Determination of the hydrocarbon oil index; large volume injection – gas chromatography with flame-ionisation detection	W6139 and W6239 in house method

Location Oosterhout and Barneveld

Nr.	Material or product	Type of activity / investigation method	Internal reference number
79	Drinking water and groundwater	Determination of the content of elements; inductively coupled plasma – atomic emission spectrometry antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, molybdenum, nickel, lead, selenium, tin, vanadium and zinc	W7404 in accordance with NEN-EN-ISO 11885
80		Determination of the mercury content; cold vapour – atomic absorption spectrometry	W6431 in accordance with NEN 6445
81		Determination of electrical conductivity; conductometry	W6508 in accordance with NEN-ISO 7888
82		Determination of pH; potentiometry	W6540 in accordance with NEN-ISO 10523
83		<p>Determination of the content of volatile components; on-line purge and trap - thermic desorption - gas chromatography with mass spectrometry</p> <p>Monoaromatic hydrocarbons benzene, ethylbenzene, toluene, o-xylene, m-xylene, p-xylene, styrene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene (mesitylene), n-propylbenzene, isopropylbenzene (cumene), n-butylbenzene, sec-butylbenzene, tert-butylbenzene and p-isopropyltoluene (p-cymene)</p> <p>Halogenated hydrocarbons chloroform (trichloromethane), tetrachloromethane, 1,1-dichloroethane, 1,2-dichloroethane, 1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,1,1,2-tetrachloroethane, 1,1,2,2-tetrachloroethane, trichloroethylene, tetrachloroethylene, 1,2-dichloropropane, 1,3-dichloropropane, 1,2,3-trichloropropane, 1,1-dichloropropene, cis-1,3-dichloropropene, trans-1,3-dichloropropene, dibromomethane, 1,2-dibromoethane, tribromomethane (bromoform), bromodichloromethane, dibromochloromethane, 1,2-dibromo-3-chloropropane, bromobenzene, chloromethane, dichloromethane, vinyl chloride (chloroethene), 1,1-dichloroethylene, cis-1,2-dichloroethylene, trans-1,2-dichloroethylene, 2,2-dichloropropane, hexachlorobutadiene, 2-chlorotoluene, 4-chlorotoluene, trichlorofluoromethane, chloroethane, bromochloromethane and bromomethane</p> <p>Chlorobenzenes chlorobenzene, 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,2,3-trichlorobenzene and 1,2,4-trichlorobenzene</p> <p>Polycyclic aromatic hydrocarbons naphthalene</p>	W6136 and W6225 in accordance with NEN-EN-ISO 15680

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Nr.	Material or product	Type of activity / investigation method	Internal reference number
84	Groundwater	<p>Determination of organic contaminations; gas chromatography with mass spectrometry</p> <p>Aromatic compounds Phenols: phenol, o-cresol, m-cresol, p-cresol, 2,4-dimethylphenol, 2,5-dimethylphenol, 3,4-dimethylphenol, 2-ethylphenol, 3-ethylphenol, 4-ethylphenol/2,3-dimethylphenol, 3,5-dimethylphenol, 2,6-dimethylphenol and thymol Polycyclic aromatic hydrocarbons: naphthalene, acenaphtylene, acenaphthene, fluorene, phenanthrene, anthracene, fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b+k)fluoranthene, benzo(a)pyrene, dibenzo(a,h)anthracene, indeno(1,2,3-c,d)pyrene and benzo(g,h,i)perylene</p> <p>Halogenated compounds Chlorobenzenes: monochlorobenzene, 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, 1,3,5-trichlorobenzene, 1,2,3,4-tetrachlorobenzene, 1,2,3,5/1,2,4,5-tetrachlorobenzene, pentachlorobenzene and hexachlorobenzene Chlorophenols: 2-chlorophenol, 3-chlorophenol, 4-chlorophenol, 2,3-dichlorophenol, 2,4/2,5-dichlorophenol, 2,6-dichlorophenol, 3,4-dichlorophenol, 3,5-dichlorophenol, 2,3,4-trichlorophenol, 2,3,5-trichlorophenol, 2,3,6-trichlorophenol, 2,4,5-trichlorophenol, 2,4,6-trichlorophenol, 3,4,5-trichlorophenol, 2,3,4,5-tetrachlorophenol, 2,3,4,6/2,3,5,6-tetrachlorophenol, pentachlorophenol and 4-chloro-3-methylphenol Polychlorinated biphenyls: PCB 28, PCB 52, PCB 101, PCB 118, PCB 138, PCB 153 and PCB 180 Chloronitrobenzenes: 2/4-chloronitrobenzene, 3-chloronitrobenzene, 2,3-dichloronitrobenzene, 2,4-dichloronitrobenzene, 2,5-dichloronitrobenzene, 3,4-dichloronitrobenzene and 3,5-dichloronitrobenzene Miscellaneous halogenated hydrocarbons: 1-chloronaphthalene</p> <p>Pesticides Organic chlorinated pesticides: p,p'-DDE, o,p'-DDE, p,p'-DDT, p,p'-DDD/o,p'-DDT, o,p'-DDD, aldrin, dieldrin, endrin, alpha-HCH, beta-HCH, gamma-HCH, delta-HCH, alpha-endosulphan, alpha-endosulphansulphate, alpha-chlorodane, gamma-chlorodane, heptachlor, heptachloroepoxide, hexachlorobutadiene, isodrin, telodrin and tedion Organic phosphor pesticides: azinphos-ethyl, azinphos-methyl, bromophos-ethyl, bromophos-methyl, chloropyriphos-ethyl, chloropyriphos-methyl, cumaphos, demeton-S/demeton-O, diazinone, dichlorophos, disulphotone, fenitrothion, fenthion, malathion, parathion-ethyl, parathion-methyl, pyrazophos and triazophos</p>	W6136, W6330 and W6336 in house method

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Nr.	Material or product	Type of activity / investigation method	Internal reference number
	Groundwater	Pesticides (continued) Organic nitrogen pesticides: ametryn, atrazine, cyanazin, desmetryn, prometryn, propazine, simazine, terbutylazine and terbutryn Miscellaneous pesticides: bifenthrine, carbaryl, cypermethrin A+B+C+D, deltamethrin, linuron, permethrin A, permethrin B, propachlor and trifluralin Miscellaneous organic contaminants biphenyl, nitrobenzene and dibenzofurane	

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Nr.	Material or product	Type of activity / investigation method	Internal reference number	Oosterhout	Barneveld
AP04-tests, package SG1 (composition of soil)^(version 01-Oct-2008); complete package					
--	Soil	Sample pre-treatment for AP04-SG1	W7101 in accordance with AP04-V	X	X
85		Determination of pH-CaCl ₂ ; potentiometry	W7525 in accordance with AP04-SG-I	X	X
86	Field-moist soil and air-dried soil	Determination of dry matter content; gravimetry	W7104 in accordance with AP04-SG-II and in accordance with NEN 6499 and NEN-ISO 11465	X	X
87	Soil	Determination of clay content; sieve and pipette	W7173 in accordance with AP04-SG-III and in accordance with NEN 5753	X	X
88		Determination of organic matter content as loss-on-ignition; gravimetry	W7109 in accordance with AP04-SG-IV and in accordance with NEN 5754	X	X
89		Determination of the content of metals; inductively coupled plasma – atomic emission spectrometry antimony, arsenic, barium, cadmium, chromium, cobalt, copper, lead, molybdenum, nickel, selenium, tin, vanadium and zinc	W7107 and W7420 in accordance with AP04-SG-V and in accordance with-NEN 6966 (digestion in accordance with NEN 6961)	X	X
90		Determination of the content of (non volatile) mercury; cold vapour-atomic absorption spectrometry	W7107 and W7424 in accordance with AP04-SG-VI and in accordance with NEN-ISO 16772 (digestion in accordance with NEN 6961)	X	X
91		Determination of the content of polycyclic aromatic hydrocarbons; high performance liquid chromatography with UV- and fluorescence detection naphthalene, phenanthrene, anthracene, fluoranthene, benzo(a)anthracene, chrysene, benzo(k)fluoranthene, benzo(a)pyrene, benzo(g,h,i)perylene, indeno(1,2,3-c,d)pyrene and the sum of these 10 PAH	W7124 and W7301 in accordance with AP04-SG-IX and in accordance with NEN 6977 (extraction in accordance with NEN 6972 and cleanup in accordance with NEN 6974)	X	X

Nr.	Material or product	Type of activity / investigation method	Internal reference number	Oosterhout	Barneveld
92	Soil	Determination of the content of polychlorinated biphenyls (PCB); gas chromatography with electron-capture detection PCB 28 (2,4,4' trichlorobiphenyl), PCB 52 (2,5 2,5' tetrachlorobiphenyl), PCB 101 (2,4,5 2',5' pentachlorobiphenyl), PCB 118 (2,4,5 3',4' pentachlorobiphenyl), PCB 138 (2,3,4 2',4',5' hexachlorobiphenyl), PCB 153 (2,4,5 2',4',5' hexachlorobiphenyl), PCB 180 (2,3,4,5 2',4',5' heptachlorobiphenyl) and the sum of these 7 PCB	W7124 and W7255 in accordance with AP04-SG-X and in accordance with NEN 6980 (extraction in accordance with NEN 6972 and cleanup in accordance with NEN 6974)	X	X
93		Determination of the hydrocarbon oil index; gas chromatography with flame-ionisation detection	W7124 and W7203 in accordance with AP04-SG-XI and in accordance with NEN 6978 (extraction in accordance with NEN 6972 and cleanup in accordance with NEN 6975)	X	X

AP04-tests, package SG2 (composition of soil)^(version 01-Oct-2008), complete package

--	Soil	Sample pre-treatment for AP04-SG2	W7101 in accordance with AP04-V	X	X
94		Determination of the content of organochloropesticides (OCP); gas chromatography with electron-capture detection hexachlorobenzene (HCB), α -hexachlorocyclohexane (α -HCH), β -hexachlorocyclohexane (β -HCH), γ -hexachlorocyclohexane (γ -HCH), aldrin, dieldrin, endrin, sum of these three "drin's", o,p'-DDD, p,p'-DDD, sum of these two DDD's o,p'-DDE, p,p'-DDE, sum of these two DDE's, o,p'-DDT, p,p'-DDT, sum of these two DDT's, isodrin, telodrin, hexachlorobutadiene, heptachlor, α -endosulfan, cis-heptachlor epoxide, trans-heptachlor epoxide, sum of these two heptachlor epoxide, cis-chlorodane, trans-chlorodane and the sum of these two chlorodanes and the sum of organochloropesticides	W7214 and W7255 in accordance with AP04-SG-XIV and in accordance with NEN 6980 (extraction in accordance with NEN 6972 and cleanup in accordance with NEN 6974)	X	X

Nr.	Material or product	Type of activity / investigation method	Internal reference number	Oosterhout	Barneveld
95	Soil	Determination of the content of less volatile chlorobenzenes; gas chromatography with electron-capture detection 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, 1,3,5-trichlorobenzene, sum of these three trichlorobenzenes, 1,2,3,4-tetrachlorobenzene, 1,2,3,5-tetrachlorobenzene, 1,2,4,5-tetrachlorobenzene, sum of these three tetrachlorobenzenes, pentachlorobenzene and hexachlorobenzene, sum of chlorobenzenes (see also package AP04-SG3)	W7124 and W7255 in accordance with AP04-SG-XV	X	X
AP04-tests, package SG3 (composition of soil)^(version 01-Oct-2008); complete package					
--	Soil	Sample pre-treatment for AP04-SG3	W7101 in accordance with AP04-V	X	X
96		Determination of the content of volatile aromatic and volatile halogenated hydrocarbons MTBE and ETBE; gas chromatography with mass spectrometry volatile aromatic hydrocarbons: benzene, toluene, ethylbenzene, o-xylene, m-xylene, p-xylene, sum of these three xylenes, styrene and the sum of aromatic hydrocarbons volatile halogenated hydrocarbons: chloroethylene (vinyl chloride), dichloromethane, trichloromethane, tetrachloromethane, trichloroethylene, tetrachloroethylene, 1,1-dichloroethane, 1,2-dichloroethane, sum of these two dichloroethanes, 1,1-dichloroethylene, cis-1,2-dichloroethylene, trans-1,2-dichloroethylene, sum of these three dichloroethylenes, 1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,1-dichloropropane, 1,2-dichloropropane, 1,3-dichloropropane and the sum of these three dichloropropanes other volatile compounds: methyltertiarybutylether (MTBE), ethyltertiarybutylether (ETBE)	W6223 in accordance with AP04-SG-VIII and in accordance with NEN 6981 (extraction in accordance with NEN 6973)	X	X
97		Determination of the content of volatile chlorobenzenes; gas chromatography with mass spectrometry monochlorobenzene, 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene and sum of these three dichlorobenzenes	W6223 in accordance with AP04-SG-XV	X	X

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AP04-tests, package SG4 (composition of soil)^(version 01-Oct-2008); complete package					
--	Soil	Sample pre-treatment for AP04-SG4	W7101 in accordance with AP04-V	X	X
98		Determination of the content of cyanides (total-free and total-complex); continuous flow analysis and spectrometry	W7517 in accordance with AP04-SG-VII and in accordance with NEN-ISO 17380	X	X
99		Determination of the content of chloride; ion chromatography	W7304 in accordance with AP04-SG-XII	X	X
AP04-tests, package SG5 (composition of soil)^(version 01-Oct-2008); incomplete package					
--	Soil	Sample pre-treatment for AP04-SG5	W7101 in accordance with AP04-V	X	X
100		Determination of the content of organic nitrogen pesticides; gas chromatography with mass spectrometry atrazine, propazine, simazine and terbutryn	W1124 and W1256 in accordance with AP04-SG-XVI and in accordance with VPR C85-17		X
101		Determination of the content of metals; inductively coupled plasma – atomic emission spectrometry beryllium, tellurium, thallium and silver	W7107 and W7420 in accordance with AP04-SG-XIX, in accordance with AP04-V and in accordance with-NEN 6966 (digestion in accordance with NEN 6961)	X	X
AP04-tests, package SG7 (composition of soil)^(version 01-Oct-2008); complete package					
--	Soil	Sample pre-treatment for AP04-SG7	W7101 in accordance with AP04-V	X	X
102		Determination of the content of extractable organohalogen compounds (EOX); microcoulometry	W7124 and W7351 in accordance with AP04-SG-XX and in accordance with NEN 6979 (extraction in accordance with NEN 6972)	X	X
103		Determination of the content of bromide; liquid chromatography of ions	W7304 in accordance with AP04-SG-XXI	X	X

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104	Soil	Determination of the content of fluoride; potentiometry	W0546 in accordance with AP04-SG-XXII		X

**AP04-tests, package SB1 (composition of building materials, soil excluded)^(version 01-Oct-2008),
complete package**

--	Building material	Sample pre-treatment for AP04-SB1	W7101 in accordance with AP04-V	X	X
105	Field-moist and air-dried building material	Determination of the dry matter content; gravimetry	W7104 in accordance with AP04-SB-I	X	X
106	Building material	Determination of the content of polycyclic aromatic hydrocarbons; high performance liquid chromatography with UV- and fluorescence detection naphthalene, phenanthrene, anthracene, fluoranthene, benzo(a)anthracene, chrysene, benzo(k)fluoranthene, benzo(a)pyrene, benzo(g,h,i)perylene, indeno(1,2,3-c,d)pyrene and the sum of these 10 PAH	W7124 and W7301 in accordance with AP04-SB-III and in accordance with NEN 6977 (extraction in accordance with NEN 6972 and cleanup in accordance with NEN 6974)	X	X
107		Determination of the content of polychlorinated biphenyls (PCB); gas chromatography with electron-capture detection PCB 28 (2,4,4' trichlorobiphenyl), PCB 52 (2,5 2,5' tetrachlorobiphenyl), PCB 101 (2,4,5 2',5' pentachlorobiphenyl), PCB 118 (2,4,5 3',4' pentachlorobiphenyl), PCB 138 (2,3,4 2',4',5' hexachlorobiphenyl), PCB 153 (2,4,5 2',4',5' hexachlorobiphenyl), PCB 180 (2,3,4,5 2',4',5' heptachlorobiphenyl), and the sum of these seven PCB	W7124 and W7255 in accordance with AP04-SB-IV	X	X
108		Determination of the hydrocarbon oil index; gas chromatography with flame-ionisation detection	W7124 and W7203 in accordance with AP04-SB-V and in accordance with NEN 6978 (extraction in accordance with NEN 6972 and cleanup in accordance with NEN 6975)	X	X

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AP04-tests, package SB2 (composition of building materials, soil excluded)^(version 01-Oct-2008), complete package					
--	Building material	Sample pre-treatment for AP04-SB2	W7101 in accordance with AP04-V	X	X
109		Determination of the content of organochloropesticides (OCP); gas chromatography with electron-capture detection hexachlorobenzene (HCB), α-hexachlorocyclohexane (α-HCH), β-hexachlorocyclohexane (β-HCH), γ-hexachlorocyclohexane (γ-HCH), aldrin, dieldrin, endrin, p,p'-DDE, o,p'-DDD, o,p'-DDT, p,p'-DDD, o,p'-DDE, p,p'-DDT, isodrin, telodrin, heptachlor, α-endosulfan, cis-heptachlor epoxide, trans-heptachlor epoxide, cis-chlordane, trans-chlordane and the sum these 21 organochloropesticides	W7124 and W7255 in accordance with AP04-SB-XIII	X	X
110		Determination of the content of organic nitrogen pesticides; gas chromatography with mass spectrometry atrazine, propazine, simazine, terbutryn and the sum of pesticides not containing chloro-organics	W1124 and W1256 in accordance with AP04-SB-XIV		X
111		Determination of the content of organic phosphor pesticides; gas chromatography with mass spectrometry parathion-methyl, parathion-ethyl, malathion, diazinone, disulphotone, dichlorophos, dimethoate, mevinphos, fenthion, chlorpyriphos-ethyl, chlorpyriphos-methyl, azinphos-ethyl, azinphos-methyl, bromophos-methyl, bromophos-ethyl and the sum of pesticides not containing chloro-organics	W1124 and W1256 in accordance with AP04-SB-XV and in accordance with VPR C85-18		X
112		Determination of the content of extractable organohalogen compounds (EOX); microcoulometry	W7124 and W7351 in accordance with AP04-SB-XVI and in accordance with NEN 6979 (extraction in accordance with NEN 6972)	X	X

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AP04-tests, package SB3 (composition of building materials, soil excluded)^(version 01-Oct-2008); complete package					
--	Building material	Sample pre-treatment for AP04-SB3	W7101 in accordance with AP04-V	X	X
113		Determination of the content of volatile aromatic hydrocarbons (BTEX); gas chromatography with mass spectrometry benzene, toluene, ethylbenzene, o-xylene, m-xylene, p-xylene, sum of these three xylenes and styrene	W6223 in accordance with AP04-SB-II	X	X
AP04-tests, package U1 (leaching test)^(version 01-Oct-2008); complete package					
--	Soil and building materials	Sample pre-treatment for AP04-U1 (and AP04-E)	W7101 in accordance with AP04-V	X	X
b		Determination of the leaching of inorganic components with the column test Associated analyses of eluates are mentioned below in package E "AP04-tests, analysis of eluates"	W7152 W0152 in accordance with AP04-U-I and in accordance with NEN 7383 and NEN 7373	X	X
AP04-tests, package U2 (leaching test)^(version 01-Oct-2008); complete package					
--	Building materials and monolites	Sample pre-treatment for AP04-U2 (and AP04-E)	W7101 in accordance with AP04-V	X	X
c		Determination of the leaching of inorganic components with the diffusion test Associated analyses of eluates are mentioned below in package E "AP04-tests, analysis of eluates"	W0153 in accordance with AP04-U-II and in accordance with NEN 7375		X
AP04-tests, package U3 (leaching test)^(version 01-Oct-2008); complete package					
--	Building materials and waste materials	Sample pre-treatment for AP04-U3 (and AP04-E)	W7101 in accordance with AP04-V	X	X
d		Determination of the availability of inorganic components for leaching Associated analyses of eluates are mentioned below in package E "AP04-tests, analysis of eluates"	W0151 in accordance with AP04-U-III and in accordance with NEN 7371		X

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AP04-tests, package E (analysis of eluates) <small>(version 01-Oct-2008)</small>					
114	Eluates	Determination of pH; potentiometry	W7525 W0160 in accordance with AP04-U-IV and in accordance with o-NEN 6411	X	X
115		Determination of electrical conductivity; conductometry	W7506 W0160 in accordance with AP04-U-V and in accordance with NEN-ISO 7888	X	X
116		Determination of the content of elements; inductively coupled plasma with mass spectrometry antimony, arsenic, barium, cadmium, chromium, potassium, cobalt, copper, mercury, lead, molybdenum, sodium, nickel, selenium, tin, vanadium and zinc	W0420 and W0421 in accordance with AP04-E-I to XV and XIX and equivalent to NEN 7324 (mercury) and in accordance with NEN-EN-ISO 17294-2 (remaining metals)		X
117		Determination of the content of cyanides (free and complex); continuous flow analysis and spectrometry	W7517 W0517 in accordance with AP04-E-XVI and in accordance with NEN-EN-ISO 14403	X	X
118		Determination of the content of bromide, chloride and sulphate; liquid chromatography of ions	W7304 W0504 in accordance with AP04-E-XVII and in accordance with NEN-EN-ISO 10304-2	X	X
119		Determination of the content of fluoride; potentiometry	W7546 W0546 in accordance with AP04-E-XVIII and in accordance with NEN 6483	X	X
AP04-tests, package Bm/Bssa (granular waste materials) <small>(version 01-Oct-2008)</small> ; complete package					
--	Granular waste materials	Sample pre-treatment for AP04-Bm/Bssa	W7101 in accordance with AP04-V	X	X
120	Granular waste materials	Determination of dry matter content; gravimetry	W7104 in accordance with AP04-SB-I	X	X

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121	Granular waste materials	Determination of the loss-on-ignition; gravimetry	W7109 in accordance with AP04-SB-IX and in accordance with NEN 6499	X	X
122		Determination of total organic carbon (TOC); infrared detection	W0594 in accordance with AP04-SB-X and in accordance with NEN-EN 13137	X	X
123		Determination of pH-CaCl ₂ ; potentiometry	W7525 in accordance with AP04-SB-XI	X	X
124		Determination of the acid neutralization capacity; titrimetry	W7547 in accordance with AP04-SB-XII	X	X
e		Shortened leachingtest for granular waste materials	W0156 in accordance with AP04-U-VIII and in accordance with NEN-EN 12457-4	X	X
125	Eluates	Determination of pH; potentiometry	W7525 W0160 in accordance with AP04-U-IV and in accordance with o-NEN 6411	X	X
126		Determination of electrical conductivity; conductometry	W7506 W0160 in accordance with AP04-U-V and in accordance with NEN-ISO 7888	X	X
127		Determination of the content of metals; inductively coupled plasma with mass spectrometry antimony, arsenic, barium, cadmium, chromium, copper, mercury, lead, molybdenum, nickel, selenium and zinc	W0420 and W0421 in accordance with AP04-E-I to XV and XIX and equivalent to NEN 7324 (mercury) and in accordance with NEN-EN-ISO 17294-2 (remaining metals)		X
128		Determination of the content of bromide, chloride and sulphate; liquid chromatography of ions	W7304 W0504 in accordance with AP04-E-XVII and in accordance with NEN-EN-ISO 10304-2	X	X
129		Determination of the content of fluoride; potentiometry	W7546 W0546 in accordance with AP04-E-XVIII and in accordance with NEN 6483	X	X

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130	Eluates	Determination of dissolved organic carbon (DOC); oxidation followed by the determination of the content of CO ₂	W0590 in accordance with AP04-E-XX and in accordance with NEN-EN 13370 (NEN-EN 1484)		x
131		Determination of the content of total dissolved solids (TDS); gravimetry	W0113 in accordance with AP04-E-XXI and in accordance with NEN-EN 15216		x

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AS3000; package 3010 (Laboratory analysis for soil, sediment and groundwater investigation; soil basic package)^(version 01-Oct-2008); complete package			
--	Soil	Sample pre-treatment for package 3010	W0101 in accordance with AS3000 and in accordance with NEN 5709
132		Determination of pH-CaCl ₂ ; potentiometry	W0524 in accordance with performance sheet 3010-1 and in accordance with NEN-ISO 10390
133		Determination of dry matter content; gravimetry	W0104 in accordance with performance sheet 3010-2 and equivalent to NEN-ISO 11465
134		Determination of organic matter content; gravimetry	W0109 in accordance with performance sheet 3010-3 and in accordance with NEN 5754
135		Determination of the clay content; sedimentation	W0105 and W0173 in accordance with performance sheet 3010-4 and in accordance with NEN 5753
136	Sand and clay	Determination of the clay content; sedimentation and density determination	W0171 in accordance with performance sheet 3010-4 and equivalent to NEN 5753
137	Soil	Determination of the content of metals; inductively coupled plasma with mass spectrometry barium, cadmium, cobalt, copper, mercury (non-volatile), lead, molybdenum, nickel and zinc	W0107 and W0423 in accordance with performance sheet 3010-5 (digestion in accordance with NEN 6961, analysis in accordance with NEN-EN-ISO 17294-2)

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Nr.	Material or product	Type of activity / investigation method	Internal reference number
138	Soil	Determination of the content of polycyclic aromatic hydrocarbons; high performance liquid chromatography with UV- and fluorescence detection naphthalene, phenanthrene, anthracene, fluoranthene, benzo(a)anthracene, chrysene, benzo(k)fluoranthene, benzo(a)pyrene, benzo(g,h,i)perylene, indeno(1,2,3-c,d)pyrene and the sum of these 10 PAH	W0120 and W0301 in accordance with performance sheet 3010-6 and in accordance with NEN 6977 (extraction in accordance with NEN 6971, cleanup in accordance with NEN 6976)
139		Determination of the hydrocarbon oil index; gas chromatography with flame-ionisation detection	W0120, W0132 and W0202 in accordance with performance sheet 3010-7 and in accordance with NEN 6978 (extraction equivalent to NEN 6972, cleanup in accordance with NEN 6975)
140		Determination of the content of polychlorinated biphenyls (PCB); gas chromatography with mass spectrometry PCB 28 (2,4,4' trichlorobiphenyl), PCB 52 (2,5 2,5' tetrachlorobiphenyl), PCB 101 (2,4,5 2',5' pentachlorobiphenyl), PCB 118 (2,4,5 3',4' pentachlorobiphenyl), PCB 138 (2,3,4 2',4',5' hexachlorobiphenyl), PCB 153 (2,4,5 2',4',5' hexachlorobiphenyl), PCB 180 (2,3,4,5 2',4',5' heptachlorobiphenyl) and the sum of these seven PCB	W0120 and W0262 in accordance with performance sheet 3010-8 and equivalent to NEN 6980 (extraction equivalent to NEN 6972, cleanup equivalent to NEN 6974)
141		Determination of the content of polychlorinated biphenyls (PCB); gas chromatography with mass spectrometry PCB 28 (2,4,4' trichlorobiphenyl), PCB 52 (2,5 2,5' tetrachlorobiphenyl), PCB 101 (2,4,5 2',5' pentachlorobiphenyl), PCB 118 (2,4,5 3',4' pentachlorobiphenyl), PCB 138 (2,3,4 2',4',5' hexachlorobiphenyl), PCB 153 (2,4,5 2',4',5' hexachlorobiphenyl), PCB 180 (2,3,4,5 2',4',5' heptachlorobiphenyl) and the sum of these seven PCB	W0120 and W0266 in accordance with performance sheet 3010-8 and equivalent to NEN 6980 (extraction in accordance with NEN 6972, cleanup in accordance with NEN 6974)

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Nr.	Material or product	Type of activity / investigation method	Internal reference number
AS3000; package 3020 (Laboratory analysis for soil, sediment and groundwater investigation; soil complementary I)^(version 01-Oct-2008); complete package			
--	Soil	Sample pre-treatment for package 3020	W0101 in accordance with AS3000 and in accordance with NEN 5709
142		Determination of the content of organochloropesticides (OCP); gas chromatography with mass spectrometry hexachlorobenzene (HCB), α -hexachlorocyclohexane (α -HCH), β -hexachlorocyclohexane (β -HCH), γ -hexachlorocyclohexane (γ -HCH), aldrin, dieldrin, endrin, sum of these three "drin's", o,p'-DDD, p,p'-DDD, sum of these two DDD's, o,p'-DDE, p,p'-DDE, sum of these two DDE's, o,p'-DDT, p,p'-DDT, sum of these two DDT's, heptachlor, α -endosulfan, isodrin, telodrin, cis-heptachlor epoxide, trans-heptachlor epoxide, sum of these two heptachlor epoxides, cis-chlorodane, trans-chlorodane, sum of these two chlorodanes, sum of organochloropesticides and hexachlorobutadiene	W0120 and W0262 in accordance with performance sheet 3020-1 and equivalent to NEN 6980 (extraction equivalent to NEN 6972, cleanup equivalent to NEN 6974)
143		Determination of the content of less volatile chlorobenzenes; gas chromatography with mass spectrometry 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, 1,3,5-trichlorobenzene, sum of these three trichlorobenzenes, 1,2,3,4-tetrachlorobenzene, 1,2,3,5-tetrachlorobenzene, 1,2,4,5-tetrachlorobenzene, sum of these three tetrachlorobenzenes, pentachlorobenzene and hexachlorobenzene, sum of chlorobenzenes	W0120 and W0262 in accordance with performance sheet 3020-2 and equivalent to NEN 6980 (extraction equivalent to NEN 6972, cleanup equivalent to NEN 6974)

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Nr.	Material or product	Type of activity / investigation method	Internal reference number
AS3000; package 3030 (Laboratory analysis for soil, sediment and groundwater investigation; soil complementary II)^(version 01-Oct-2008); complete package			
--	Soil	Sample pre-treatment for package 3030	W0101 in accordance with AS3000 and in accordance with NEN 5709
144		Determination of the content of volatile aromatic hydrocarbons, volatile halogenated hydrocarbons, MTBE and ETBE; static headspace – gas chromatography with mass spectrometry volatile aromatic hydrocarbons: benzene, toluene, ethylbenzene, o-xylene, m-xylene, p-xylene, sum of these three xylenes, styrene, sum of aromatic solvents, naphthalene volatile halogenated hydrocarbons: chloroethylene (vinyl chloride), dichloromethane, trichloromethane, tetrachloromethane, trichloroethylene, tetrachloroethylene, 1,1-dichloroethane, 1,2-dichloroethane, 1,1-dichloroethylene, cis-1,2-dichloroethylene, trans-1,2-dichloroethylene, sum of these three dichloroethylenes, 1,1,1-trichloroethane, 1,1,2-trichloroethane and the sum of these two trichloroethanes, 1,1-dichloropropane, 1,2-dichloropropane, 1,3-dichloropropane and the sum of these three dichloropropanes, tribromomethane other volatile compounds: methyltertiarybutylether (MTBE) and ethyltertiarybutylether (ETBE)	W0132, W0136 and W0254 in accordance with performance sheet 3030-1 and in accordance with NEN 6981 (extraction in accordance with NEN 6973)
145		Determination of the content of volatile chlorobenzenes; static headspace – gas chromatography with mass spectrometry monochlorobenzene, 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene and the sum of dichlorobenzenes	W0132, W0136 and W0254 in accordance with performance sheet 3030-2 and in accordance NEN 6981 (extraction in accordance with NEN 6973)
146		Determination of the content of other solvents; static headspace – gas chromatography with mass spectrometry 1,2,3-trimethylbenzene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, 2-ethyltoluene, 3-ethyltoluene, 4-ethyltoluene, isopropylbenzene, propylbenzene and the sum aromatic solvents	W0132, W0136 and W0254 in accordance with performance sheet 3030-3 and in accordance with NEN 6981 (extraction in accordance with NEN 6973)

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Nr.	Material or product	Type of activity / investigation method	Internal reference number
AS3000; package 3040 (Laboratory analysis for soil, sediment and groundwater investigation; soil complementary III)^(version 01-Oct-2008); complete package			
--	Soil	Sample pre-treatment for package 3040	W0101 in accordance with AS3000 and in accordance with NEN 5709
147		Determination of the content of cyanides (free, total and complex); continuous flow analysis and spectrometry	W0117 and W0517 in accordance with performance sheet 3040-1 and in accordance with NEN-ISO 17380
148		Determination of chloride; liquid chromatography of ions	W0504 in accordance with performance sheet 3040-2 (extraction in accordance with VPR C85-06, analysis in accordance with NEN-ISO 10304-2)
AS3000; package 3050 (Laboratory analysis for soil, sediment and groundwater investigation; soil complementary IV)^(version 01-Oct-2008); complete package			
--	Soil	Sample pre-treatment for package 3050	W0101 in accordance with AS3000 and in accordance with NEN 5709
149		Determination of the content of metals; inductively coupled plasma with mass spectrometry antimony, arsenic, chromium, tin, vanadium, beryllium, tellurium, thallium and silver	W0107 and W0423 in accordance with performance sheet 3050-1 and -2 (digestion in accordance with NEN 6961, analysis in accordance with NEN-EN-ISO 17294-2)

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Nr.	Material or product	Type of activity / investigation method	Internal reference number
AS3000; package 3110 (Laboratory analysis for soil, sediment and groundwater investigation; groundwater basic package)^(version 01-Oct-2008) complete package			
150	Groundwater	Determination of pH; potentiometry	W0524 in accordance with performance sheet 3110-1 and in accordance with o-NEN 6411
151		Determination of electrical conductivity; conductometry	W0506 in accordance with performance sheet 3110-2 and in accordance with NEN-ISO 7888
152		Determination of the content of metals; inductively coupled plasma with mass spectrometry barium, cadmium, cobalt, copper, mercury (non-volatile), lead, molybdenum, nickel and zinc	W0108, W0420 and W0421 in accordance with performance sheet 3110-3 and in accordance with NEN-EN-ISO 17294-2
153		Determination of the content of polycyclic aromatic hydrocarbons (PAH); high performance liquid chromatography with UV- and fluorescence detection naphthalene, phenanthrene, anthracene, fluoranthene, benzo(a)anthracene, chrysene, benzo(k)fluoranthene, benzo(a)pyrene, benzo(g,h,i)perylene, indeno(1,2,3-c,d)pyrene and the sum of these 10 PAH	W0130 and W0302 in accordance with performance sheet 3110-4 and equivalent to NEN-EN-ISO 17993
154		Determination of the hydrocarbon oil index; gas chromatography with flame-ionisation detection	W0123 and W0215 in accordance with performance sheet 3110-5

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Nr.	Material or product	Type of activity / investigation method	Internal reference number
AS3000; package 3120 (Laboratory analysis for soil, sediment and groundwater investigation; groundwater complementary I)^(version 01-Oct-2008); complete package			
155	Groundwater	Determination of the content of polychlorinated biphenyls (PCB) and organochloropesticides (OCP); gas chromatography with mass spectrometry PCB 28 (2,4,4' trichlorobiphenyl), PCB 52 (2,5 2,5' tetrachlorobiphenyl), PCB 101 (2,4,5 2',5' pentachlorobiphenyl), PCB 118 (2,4,5 3',4' pentachlorobiphenyl), PCB 138 (2,3,4 2',4',5' hexachlorobiphenyl), PCB 153 (2,4,5 2',4',5' hexachlorobiphenyl), PCB 180 (2,3,4,5 2',4',5' heptachlorobiphenyl), sum of these seven PCB, α-hexachlorocyclohexane (α-HCH), β-hexachlorocyclohexane (β-HCH), γ-hexachlorocyclohexane (γ-HCH), δ-hexachlorocyclohexane (δ-HCH), sum of these four HCH's, aldrin, dieldrin, endrin, sum of these three "drin's", p,p'-DDE, o,p'-DDD, o,p'-DDT, p,p'-DDD, o,p'-DDE, p,p'-DDT, sum of these six DD's, heptachlor, α-endosulfan, cis-heptachlor epoxide, trans-heptachlor epoxide, sum of these two heptachlor epoxides, cis-chlorodane, trans-chlorodane and sum of these two chlorodanes	W0137 and W0260 in accordance with performance sheet 3120-1 and equivalent to NEN-EN-ISO 6468
156		Determination of the content of tri- and tetrachlorobenzenes, penta- and hexachlorobenzene; gas chromatography with mass spectrometry 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, 1,3,5-trichlorobenzene, sum of these three trichlorobenzenes, 1,2,3,4-tetrachlorobenzene, 1,2,3,5-tetrachlorobenzene, 1,2,4,5-tetrachlorobenzene, sum of these three tetrachlorobenzenes, pentachlorobenzene and hexachlorobenzene	W0137 and W0260 in accordance with performance sheet 3120-2 and equivalent to NEN-EN-ISO 6468

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Nr.	Material or product	Type of activity / investigation method	Internal reference number
AS3000; package 3130 (Laboratory analysis for soil, sediment and groundwater investigation; groundwater complementary II)^(version 01-Oct-2008); complete package			
157	Groundwater	Determination of the content of volatile aromatic hydrocarbons and volatile halogenated hydrocarbons; static headspace – gas chromatography with mass spectrometry volatile aromatic hydrocarbons: benzene, toluene, ethylbenzene, o-xylene, m-xylene, p-xylene, sum of these three xylenes, styrene and naphthalene volatile halogenated hydrocarbons: chloroethylene (vinyl chloride) dichloromethane, trichloromethane, tetrachloromethane, trichloroethylene, tetrachloroethylene, 1,1-dichloroethane, 1,2-dichloroethane, 1,1-dichloroethylene, cis-1,2-dichloroethylene, trans-1,2-dichloroethylene, sum of these three dichloroethylenes, 1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,1-dichloropropane, 1,2-dichloropropane, 1,3-dichloropropane, the sum of these three dichloropropanes and tribromomethane other volatile compounds: methyltertiarybutylether (MTBE) and ethyltertiarybutylether (ETBE)	W0122 and W0254 in accordance with performance sheet 3130-1 and equivalent to NEN-EN-ISO 15680
158		Determination of the content of monochlorobenzene and dichlorobenzenes; static headspace – gas chromatography with mass spectrometry monochlorobenzene, 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene and the sum of these three dichlorobenzenes	W0122 and W0254 in accordance with performance sheet 3130-2 and equivalent to NEN-EN-ISO 15680
AS3000; package 3140 (Laboratory analysis for soil, sediment and groundwater investigation; groundwater complementary III)^(version 01-Oct-2008); complete package			
159	Groundwater	Determination of the content of cyanide (free, total and complex); continuous flow analysis and spectrometry	W0117 and W0517 in accordance with performance sheet 3140-1 and in accordance with NEN-EN-ISO 14403
160		Determination of the content of anions; liquid chromatography of ions chloride, nitrate and sulphate	W0504 in accordance with performance sheet 3140-2 and in accordance with NEN-EN-ISO 10304-1
161		Determination of the content of anions; discrete analysis and spectrometry chloride, nitrate, ortho-phosphate and sulphate	W0566 in accordance with performance sheet 3140-2 and in accordance with NEN 6604

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Nr.	Material or product	Type of activity / investigation method	Internal reference number
AS3000; package 3150 (Laboratory analysis for soil, sediment and groundwater investigation; groundwater complementary IV)^(version 01-Oct-2008); complete package			
162	Groundwater	Determination of the content of metals; inductively coupled plasma with mass spectrometry antimony, arsenic, chromium, tin, vanadium, beryllium, tellurium, thallium and silver	W0108, W0420 and W0421 in accordance with performance sheet 3150-1 and -2 and in accordance with NEN-EN-ISO 17294-2
AS3000; package 3210 (Laboratory analysis for soil, sediment and groundwater investigation; sediment basic package)^(version 25-Jun-2008) complete package			
--	Sediment	Sample pre-treatment for package 3210	W0101 in accordance with AS3000 and in accordance with NEN 5719
163		Determination of dry matter content; gravimetry	W0104 in accordance with performance sheet 3210-1 and in accordance with NEN-EN 12880
164		Determination of organic matter content; gravimetry	W0109 in accordance with performance sheet 3210-2a and in accordance with NEN 5754
165		Determination of the total residue on evaporation; gravimetry	W0109 in accordance with performance sheet 3210-2b and in accordance with NEN 5754
166		Determination of the particle size fractions; sedimentation < 2 µm (clay) and < 16 µm	W0173 in accordance with performance sheet 3210-3 and in accordance with NEN 5753
167		Determination of the content of metals; inductively coupled plasma with mass spectrometry barium, cadmium, cobalt, copper, mercury (non-volatile), lead, molybdenum, nickel and zinc	W0107 and W0423 in accordance with performance sheet 3210-4 and in accordance with NEN-EN-ISO 17294-2 (digestion in accordance with NEN 6961)

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Nr.	Material or product	Type of activity / investigation method	Internal reference number
168	Sediment	Determination of the content of polycyclic aromatic hydrocarbons (PAH); high performance liquid chromatography with UV- and fluorescence detection naphthalene, phenanthrene, anthracene, fluoranthene, benzo(a)anthracene, chrysene, benzo(k)fluoranthene, benzo(a)pyrene, benzo(g,h,i)perylene, indeno(1,2,3-c,d)pyrene and the sum of these 10 PAH	W0120, W0132 and W0301 in accordance with performance sheet 3210-5 and in accordance with NEN 6977 (extraction in accordance with NEN 6971, cleanup in accordance with NEN 6976)
169		Determination of the hydrocarbon oil index; gas chromatography with flame-ionisation detection	W0120, W0132 and W0202 in accordance with performance sheet 3210-6 and equivalent to with NEN 6978 (extraction in accordance with NEN 6972, cleanup in accordance with NEN 6975)
170		Determination of the content of polychlorinated biphenyls (PCB); gas chromatography with mass spectrometry PCB 28 (2,4,4' trichlorobiphenyl), PCB 52 (2,5 2,5' tetrachlorobiphenyl), PCB 101 (2,4,5 2',5' pentachlorobiphenyl), PCB 118 (2,4,5 3',4' pentachlorobiphenyl), PCB 138 (2,3,4 2',4',5' hexachlorobiphenyl), PCB 153 (2,4,5 2',4',5' hexachlorobiphenyl), PCB 180 (2,3,4,5 2',4',5' heptachlorobiphenyl) and the sum of these seven PCB	W0120, W0132 and W0262 in accordance with performance sheet 3210-7 and equivalent to NEN 6980 (extraction equivalent to NEN 6972, cleanup equivalent to NEN 6974)

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Nr.	Material or product	Type of activity / investigation method	Internal reference number
AS3000; package 3220 (Laboratory analysis for soil, sediment and groundwater investigation; sediment complementary I)^(version 25-Jun-2008); complete package			
--	Sediment	Sample pre-treatment for package 3220	W0101 in accordance with AS3000 and in accordance with NEN 5719
171		Determination of the content of organochloropesticides (OCP); gas chromatography with mass spectrometry hexachlorobutadiene, pentachlorobenzene, hexachlorobenzene, the sum of chlorobenzenes, α -HCH, β -HCH, γ -HCH, the sum of these three HCH-compounds, aldrin, dieldrin, endrin, isodrin, telodrin, the sum of these five drin's, o,p'-DDD, p,p'-DDD, the sum of these two DDD's, o,p'-DDE, p,p'-DDE, the sum of these two DDE's, o,p'-DDT, p,p'-DDT, the sum of these two DDT's, the sum of these DD's, heptachlor, α -endosulfan, cis-heptachlor epoxide, trans-heptachlor epoxide, the sum of these two heptachlor epoxides, cis-chlorodane, trans-chlorodane and the sum of these two chlorodanes	W0120, W0132 and W0262 in accordance with performance sheet 3220-1 and equivalent to NEN 6980 (extraction equivalent to NEN 6972, cleanup equivalent to NEN 6974)
172		Determination of the content of miscellaneous organochloropesticides (OCP); gas chromatography with mass spectrometry δ -HCH, the sum of the HCH-compounds and endosulphansulphate	W0120, W0132 and W0262 in accordance with performance sheet 3220-1 and equivalent to NEN 6980 (extraction equivalent to NEN 6972, cleanup equivalent to NEN 6974)
AS3000; package 3230 (Laboratory analysis for soil, sediment and groundwater investigation; sediment complementary II)^(version 25-Jun-2008); complete package			
--	Sediment	Sample pre-treatment for package 3230	W0101 in accordance with AS3000 and in accordance with NEN 5719
173		Determination of the content of monochlorobenzene and dichlorobenzenes; static headspace – gas chromatography with mass spectrometry monochlorobenzene, 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene and the sum of these three dichlorobenzenes	W0132, W0136 and W0254 in accordance with performance sheet 3230-1 and in accordance with NEN 6981 (extraction in accordance with NEN 6973)

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Nr.	Material or product	Type of activity / investigation method	Internal reference number
174	Sediment	Determination of the content of tri- and tetrachlorobenzenes; gas chromatography with mass spectrometry 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, 1,3,5-trichlorobenzene, sum of these three trichlorobenzenes, 1,2,3,4-tetrachlorobenzene, 1,2,3,5-tetrachlorobenzene, 1,2,4,5-tetrachlorobenzene, the sum of these three tetrachlorobenzenes and the sum of the chlorobenzenes	W0120, W0132 and W0262 in accordance with performance sheet 3230-2 and equivalent to NEN 6980 (extraction equivalent to NEN 6972, cleanup equivalent to NEN 6974)

AS3000; package 3240 (Laboratory analysis for soil, sediment and groundwater investigation; sediment complementary III) (version 25-Jun-2008); complete package

--	Sediment	Sample pre-treatment for package 3240	W0101 in accordance with AS3000 and in accordance with NEN 5719
175		Determination of the content of cyanide (free, total and complex); continuous flow analysis and spectrometry	W0117 and W0517 in accordance with performance sheet 3240-1 and in accordance with NEN-ISO 17380
176		Determination of the content of chloride; liquid chromatography of ions	W0504 in accordance with performance sheet 3240-2 and in accordance with NEN-ISO 10304-2 (analysis)
177		Determination of pH-H ₂ O; potentiometry	W0524 in accordance with performance sheet 3240-3 and in accordance with NEN-ISO 10390

AS3000; package 3250 (Laboratory analysis for soil, sediment and groundwater investigation; sediment complementary IV) (version 25-Jun-2008); complete package

--	Sediment	Sample pre-treatment for package 3250	W0101 in accordance with AS3000 and in accordance with NEN 5719
178		Determination of the content of metals; inductively coupled plasma with mass spectrometry antimony, arsenic, chromium, tin and vanadium	W0107 and W0423 in accordance with performance sheet 3250-1 and in accordance with NEN-EN-ISO 17294-2 (digestion in accordance with NEN 6961)

Appendix to ISO/IEC 17025 accreditation certificate
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Nr.	Material or product	Type of activity / investigation method	Internal reference number
AS3000; package 3260 (Laboratory analysis for soil, sediment and groundwater investigation; sediment complementary V)^(version 25-Jun-2008); complete package			
--	Sediment	Sample pre-treatment for package 3260	W0101 in accordance with AS3000 and in accordance with NEN 5719
179		Determination of the content of pentachlorophenol; gas chromatography with mass spectrometry	W0139 and W0267 in accordance with performance sheet 3260-1 and equivalent to NEN-ISO 14154
180		Determination of the content of organotin compounds; gas chromatography with mass spectrometry tributyltin compounds (TBT), triphenyltin compounds (TPhT) and the sum of these organotin compounds	W0140 and W0268 in accordance with performance sheet 3260-2 and in accordance with ISO/DIS 23161