

**ENVIRONMENTAL LABORATORY APPROVAL PROGRAM
CERTIFICATION MANUAL**

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Proficiency Testing – Non-Potable Water Samples	05/07/09	1 of 3	312

Sample name	Analytes present
ALKALINITY	alkalinity (as CaCO ₃)
pH	pH
SPECIFIC CONDUCTANCE	potassium chloride
TOTAL RESIDUAL CHLORINE	total residual chlorine
CYANIDE	total cyanide
DEMAND	BOD, Carbonaceous BOD, COD, TOC
TURBIDITY	turbidity
METALS I & II	Ag; Al; As; B; Ba; Be; Cd; Co; Cr; Cu; Fe; Mn; Ni; Pb; Sb; Se; Sr; Tl; V; Zn
METALS III	Mo; Sn; Ti; Hg
HEXAVALENT CHROMIUM	Cr (VI)
MINERALS	chloride; fluoride; sulfate
MINERALS II	calcium, magnesium, potassium, sodium, calcium hardness as CaCO ₃ , total hardness as CaCO ₃
INORGANIC NUTRIENTS	nitrate (as N); ammonia (as N); orthophosphate
ORGANIC NUTRIENTS	total Kjeldahl nitrogen; total phosphorus (as P)
OIL & GREASE	total recoverable oil and grease
TPH	total petroleum hydrocarbons
RESIDUE	total suspended solids; total solids
TOTAL DISSOLVED SOLIDS	total dissolved solids
SETTLABLE SOLIDS	settleable solids
SILICA	dissolved silica (as SiO₂)
SULFIDE	sulfide (as S)
SURFACTANTS	surfactant (MBAS)
NITRITE	nitrite as N
BENZIDINES	benzidine; 3,3'-dichlorobenzidine
NITROSAMINES	N-Nitrosodimethylamine; N-Nitrosodiphenylamine; N-nitroso di-n-propylamine
PCBs	One ampoule with 1 PCB from the following list: PCB-1016; PCB-1221; PCB-1232; PCB-1242; PCB-1248; PCB-1254; PCB-1260
CHLORINATED HYDROCARBON PESTICIDES	At least 80% of analytes from the following list: aldrin; alpha-BHC; beta-BHC; delta-BHC; gamma-BHC (Lindane); alpha-chlordane; gamma-chlordane; 4,4'-DDD; 4,4'-DDE; 4,4'-DDT; dieldrin; endosulfan I; endosulfan II; endosulfan sulfate; endrin; endrin aldehyde; endrin ketone; heptachlor; heptachlor epoxide; methoxychlor
CHLORDANE	chlordane
TOXAPHENE	toxaphene
CHLOROPHENOXY ACID	2,4-D; 2,4,5-TP (Silvex); 2,4,5-T; dicamba

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PESTICIDES	
LOW LEVEL PAH	acenaphthene, acenaphthylene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, naphthalene, phenanthrene, pyrene
TOTAL PHENOLS	mixed phenols
ACID EXTRACTABLES	At least 80% of analytes from the following list: 4-chloro-3-methylphenol; 2-chlorophenol; 2,4-dichlorophenol; 2,6-dichlorophenol; 2,4-dimethylphenol; 2,4-dinitrophenol; 2-methyl-4,6-dinitrophenol; 2-methylphenol (o-cresol); 4-methylphenol (p-cresol); 2-nitrophenol; 4-nitrophenol; pentachlorophenol; phenol; 2,4,5-trichlorophenol; 2,4,6-trichlorophenol
BASE/NEUTRALS	At least 60% of analytes from the following list: 2-chloronaphthalene; hexachlorobenzene; hexachlorobutadiene; hexachloroethane; hexachlorocyclopentadiene; 1,2,4-trichlorobenzene; bis (2-chloroethyl) ether; bis (2-chloroisopropyl) ether; bis (2-chloroethoxy) methane; 4-chlorophenylphenyl ether; 4-bromophenylphenyl ether; 2,4-dinitrotoluene; 2,6-dinitrotoluene; isophorone; 2-methylnaphthalene; nitrobenzene; Acenaphthene; anthracene; acenaphthylene; benzo(a)anthracene; benzo(a)pyrene; benzo(b)fluoranthene; benzo(g,h,i)perylene; benzo(k)fluoranthene; chrysene; dibenzo(a,h)anthracene; dibenzofuran; fluoranthene; fluorene; indeno (1,2,3-cd) pyrene; naphthalene; phenanthrene; pyrene; butyl benzyl phthalate; bis (2-ethylhexyl) phthalate; diethyl phthalate; dimethyl phthalate; di-n-butyl phthalate; di-n-octyl phthalate

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PURGEABLES	At least 60% of compounds from the following list: benzene; chlorobenzene; 1,2-dichlorobenzene; 1,3-dichlorobenzene; 1,4-dichlorobenzene; ethylbenzene; toluene; total xylenes bromodichloromethane; bromoform; bromomethane; carbon tetrachloride; chloroethane; chloroform; chloromethane; dibromochloromethane; 1,1-dichloroethane; 1,2-dichloroethane; 1,1-dichloroethene; cis-1,2-dichloroethene; trans-1,2-dichloroethene; 1,2-dichloropropane; cis-1,3-dichloropropene; trans-1,3-dichloropropene; 2-hexanone; methylene chloride; 4-methyl-2-pentanone (MIBK); methyl-tert-butyl-ether (MTBE); styrene; 1,1,2,2-tetrachloroethane; tetrachloroethene; 1,1,1-trichloroethane; 1,1,2-trichloroethane; trichloroethene; trichlorofluoromethane; vinyl chloride
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