CERTIFICATE OF ACCREDITATION

This is to attest

AGQ CHILE S.A.

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SANTIAGO DE CHILE, 8590829, CHILE

Testing Laboratory TL-513

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories.* This organization is accredited to provide the services specified in the scope of accreditation.

Expiry Date May 1, 2027
Effective Date October 12, 2026

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Accredited to ISO/IEC 17025:2017 *Effective Date October 12, 2026*

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Food -Organic	Dry foods, Oilseeds, Cereals, Crustaceans, prepared food	Aflatoxin B1, Aflatoxin B2, Aflatoxin G1, Aflatoxin G2, Zearalenone, Ochratoxine A, Fumonisin B1, Fumonisin B2, Deoxynivalenol	**PC-226 (Rev. 10)** Determination of mycotoxins by LC/MS-MS
	Samples of animal origin (Hydrobiological, animal muscle and dairy products)	3-Amino-2-oxazolidinone (AOZ), 1-Aminohydantoin hydrochloride (AHD), 3-Amino-5-morpholinomethyl-2-oxazold (AMOZ), Semicarbazide hydrochloride (SEM)	**PC-227 (Rev. 9)** Determination of nitrofuran metabolites residues by LC-MS / MS
		Abamectin, Amoxicillin, Azametifos, Chlortetracycline, Ciprofloxacin, Cloranfenicol, Danofloxacin, Difloxacin, Diflubenzuron, Doxycycline, Emamectin, Enrofloxacin, Erythromycin A, Florfenicol, Flumequine, Hexaflumuron, Ivermectin, Levamisole, Lufenuron, Norfloxacin, Oxolinic acid, Oxytetracycline, Penicillin, Sarafloxacin, Spiramycin, Teflubenzuron, Tetracycline, Trimethoprim, Tylosin	**PC-228 (Rev. 21)** Determination of Antibiotic and Tetracycline Residues by LC-MS / MS Chromatography
		Chlortetracycline + 4-epi-Chlortetracycline, Oxytetracycline + 4-epi-Oxitetracycline, Tetracycline + 4-epi-Tetracycline, Ampicillin	**PC-339 (Rev. 16)** Residues of Tetracyclines and Penicillin in Hydrobiological Products by LC-MS/MS
		Crystal Violet, Leuco Crystal Violet, Malachite Green, Leuco Green Malachite, Bright Green	**PC-340 (Rev. 12)** Determination of colorants in Hydrobiological Products by LC/MS-MS
	Wine	Ochratoxin A	**PC-299 (Rev. 6)** Determination of Ochratoxin A residues by LC/MS-MS

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Food -Organic (cont'd.)	Wine (cont'd.)	Natamycin	**PC-300 (Rev. 5)** Determination of Natamycin residues LC-MS/MS
		Histamine	**PC-301 (Rev. 8)** Determination of Histamine residues by LC/MS-MS
		Methanol	**PC-358 (Rev. 4)** Determination of methanol by GC-FID
	Meal from animal origin and Feedstuffs	Abamectin, Oxolinic Acid, Ciprofloxacin, Chloramphenicol, Diflubenzuron, Emamectin Benzoate, Enrofloxacin, Erythromycin A, Spiramycin, Florfenicol, Flumequine, Ivermectin, Sarafloxacin, Trimethoprim, Teflubenzuron, Tylosin, Lufenuron, Hexaflumuron, Amoxicillin, Chlortetracycline, Oxytetracycline, Tetracycline, Penicillin G and Doxycycline	**PC-305 (Rev. 9)** Determination of antibiotic and tetracycline residues by LC-MS-MS
		1-Aminohydantoin (AHD), 3-Amino-5-morpholinomethyl-2-oxazolidinone (AMOZ), 3-Amino-2-oxazolidinone (AOZ), Semicarbazide (SEM)	**PC-319 (Rev. 6)** Determination of nitrofurans metabolites residues by LC/MS-MS
		Crystal Violet, Leuco Crystal Violet, Malachite Green, Leuco Green Malachite, Bright Green	**PC-266 (Rev. 18)** Determination of colorants in meal by LC/MS-MS
	Meal from animal origin, Feedstuffs, Fish (with high and low-fat content) and Crustaceans	Sulfamethazine (Sulfadimidine), Sulfadimethoxine, Sulfaquinoxaline, Sulfamethoxazole, Sulfamethoxipyridazine, Sulfadoxine, Sulfadiazine, Sulfathiazole, Sulfamerazine, Sulfachloropyridazine	**PC-341 (Rev. 7)** Determination of sulfonamides residues by LC/MS-MS
		Decoquinate, Diclazuril, Halofuginone, Robenidine, Narasin, Nicarbazine, Lasalocid A, Maduramicin, Monensin, Salinomycin	**PE-659 (Rev. 3)** Determination of Coccidiostats by LC/MS-MS
	High water content (Fruits and vegetables); High water content and acid (Fruits); Aromatic herbs and leaves	Dithiocarbamates	**PC-368 (Rev.8)** Determination of Dithiocarbamates by GC-MS/MS.

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Food -Organic (cont'd.)	(Vegetables); High content of starch and/or protein and low water content and fat (Cereals and vegetables); High in sugar and low in water (Dried fruits); High oil and low water content (Dry fruits and Oilseeds); High oil and half water content (Fruits); Wine; Natural juices with no added sugar	Dithiocarbamates (cont'd.)	**PC-368 (Rev.8)** Determination of Dithiocarbamates by GC-MS/MS. (cont'd.)
	High water content (Fruits and vegetables); High water content and acid (Fruits); Aromatic herbs and leaves (Vegetables); High content of starch and/or protein and low water content and fat (Cereals and vegetables); High in sugar and low in water (Dried fruits); High oil and low water content (Dry fruits and Oilseeds); High oil and half water content (Fruits); Oils; Wine; Natural juices with no added sugar, Crustaceans	2,4-D, Azoxystrobin, Diphenylamine, Fenhexamide, Fludioxonil, Iprodione, Imazalil, Pyrimethanil, Prochloraz, Tebuconazole, Thiabendazole	**PE-664 (Rev. 5)** Determination of residues of post-harvest pesticides by chromatography LC/MS-MS
		2,4,6-Tricloroanisol, 2,4,6-Triclorofenol, 2,4-D, 2-Fenilfenol, Abamectina, Acefato, Acequinocyl, Acetocloro, Acetamiprid, Acibenzolar-S-metilo, Aclonifen, Acrinatrina, Alacloro, Aldicarb (Suma), Aldicarb, Aldicarb Sulfona, Aldicarb Sulfoxido, Aldrín, Alfa-HCH, Ametoctradin, Ametrina, Aminocarb, Antraquinona, Atrazina, Atrazina Desetil, Atrazina Desisopropil, Azaconazol, Azadiractina, Azametifos, Azimsulfurón, Azinfos Etil, Azinfos Metil, Azoxistrobina, BAC (Suma), BAC n-c08, BAC n-c10, BAC n-c12, BAC n-c14, BAC n-c16, BAC n-c18, Beflubutamida, Benalaxil, Bendiocarb, Benfluralina, Benomilo-Carbendazima, Bentazona, Bentazona Metil, Bentiavalicarb Isopropil, Beta-HCH, Bifenazato, Bifenilo, Bifenox, Bifentrina, Bioaletrina, Bitertanol, Bixafen, Boscalida, Bromacilo, Bromociclen, Bromofos Etil, Bromofos Metil, Bromopropilato, Bromoxinil, Bromuconazol, BTS 44595, BTS 44596, Bupirimato, Buprofezin,	**PE-674 (Rev. 25)** Determination of pesticide residues by GC/MS-MS and LC/MS-MS

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Food -Organic (cont'd.)	High water content (Fruits and vegetables); High water content and acid (Fruits); Aromatic herbs and leaves (Vegetables); High content of starch and/or protein and low water content and fat (Cereals and vegetables); High in sugar and low in water (Dried fruits); High oil and low water content (Dry fruits and Oilseeds); High oil and half water content (Fruits); Oils; Wine; Natural juices with no added sugar, Crustaceans (cont'd.)	Butacloro, Butoxicarboxim, Butoxicarboxim Sulfoxide, Butralina, Buturon, Cadusafos, Captafol, Captan (Suma), Captan, Carbaril, Carbetamida, Carbofenotion, Carbofuran, Carbofuran-3-Hidroxi, Carboxim, Carfentrazona Etil, Chlordecone, Cianazina, Ciazofamida, Ciclanilida, Cicloato, Cicloxidim, Cienopirafen, Ciflufenamida, Ciflumetofeno, Ciflutrin, Cihalofop Butil, Cihexatina+Azociclotin, Cimoxanilo, Cinidon Etil, Cipermetrina, Ciproconazol, Ciprodinil, Ciromazina, Cletodim, Cletodim Sulfona, Cletodim Sulfoxido, Clofentezina, Clomazona, Clorantraniliprole, Clorbenzilato + Clorpropilato, Clorbromuron, Clordano (Suma), Clordano Cis, Clordano Trans, Clorfenapir, Clorfenson, Clorfenvinfós, Clorfluazuron, Cloridazon (Suma), Cloridazon, Cloridazon Desfenil, Clormefos, Clorotalonil, Clorotion, Clorpirifos, Clorpirifos Metil, Clorprofam, Clorsulfuron, Clortal Dimetil, Clortiofos, Clortoluron, Clorxuron, Clotianidin, Clozolinato, Coumafos, Crimidina, Cyantraniliprole, Cyhalotrin-L, DDAC (Suma), DDAC n-c08, DDAC n-c10, DDAC n-c12, DDAC n-c14, DDD-pp + DDT-op, DEET, Delta-HCH, Deltametrina, Demeton S, Demeton-S Sulfóxido, Demeton-S-Metil, Demeton-S-Metil Sulfona, Desmedifam, Desmetrina, Diafenturion, Dialifos, Diazinón, Diclobenilo, Diclobutrazol, Diclofention, Diclofluanida, Diclofop, Diclofop Metil, Diclofop Metil (Suma), Diclorán, Diclormid, Diclorprop, Diclorvos, Dicofol (Suma), Dicofol o,p, Dicofol p,p´, Dicrotofos, Dieldrin (Suma), Dieldrin, Dietofencarb, Difenilamina, Difenoconazol, Diflubenzuron, Diflufenicán, Dimefox, Dimefuron, Dimetacloro,	**PE-674 (Rev. 25)** Determination of pesticide residues by GC/MS-MS and LC/MS-MS (cont'd)

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Food -Organic (cont'd.)	High water content (Fruits and vegetables); High water content and acid (Fruits); Aromatic herbs and leaves (Vegetables); High content of starch and/or protein and low water content and fat (Cereals and vegetables); High in sugar and low in water (Dried fruits); High oil and low water content (Dry fruits and Oilseeds); High oil and half water content (Fruits); Oils; Wine; Natural juices with no added sugar, Crustaceans (cont'd.)	Dimetenamida-P, Dimetoato, Dimetomorf, Dimoxistrobin, Diniconazol, Dinobuton, Dinoseb, Dinotefuram, 2,6-DIPN, Disulfuton (Suma), Disulfuton, Disulfuton Sulfona, Disulfuton Sulfoxido, Ditalimfos, Diuron, DMST, DNOC, Dodemorf, Dodina, Edifenphos, Emamectina, Endosulfan (Suma), Endosulfan Alfa, Endosulfan Beta, Endosulfan Sulfato, Endrin, EPN, Epoxiconazol, Epsilon-HCH, EPTC, Espinetoram, Espinosad, Espirodiclofeno, Espiromesifeno, Espirotetramat (Suma), Espirotetramat, Espirotetramat-Cis-Enol, Espirotetramat-Cis-Ketohidroxi, Espirotetramat-Enol-Glucoside, Espirotetramat-Mono-Hidroxy, Espiroxamina, Etaboxam, Etaconazole, Etalfluralin, Ethirimol, Etiofencarb, Etiofencarb Sulfona, Etiofencarb Sulfóxido, Etion, Etiprol, Etofenprox, Etofumesato (Suma), Etofumesato , Etofumesato 2-ceto, Etoprofos, Etoxazol, Etoxiquina, Etridiazole, Etrimfos, Famoxadona, Fenamidona, Fenamifos (Suma), Fenamifos, Fenamifos Sulfona, Fenamifos Sulfóxido, Fenarimol, Fenazaquina, Fenbuconazol, Fenbutatín Óxido, Fenclorfos (Suma), Fenclorfos, Fenclorfos Oxon, Fenhexamida, Fenitrotión, Fenmedifan, Fenobucarb, Fenoxicarb, Fenpiclonil, Fenpirazamina, Fenpiroximato, Fenpropatrin, Fenpropidin, Fenpropimorfo, Fenson, Fensulfotion, Fensulfotion Oxon, Fensulfotion Oxon Sulfona, Fensulfotion Sulfona, Fentina , Fention (Suma), Fention, Fention Oxon, Fention Oxon Sulfona, Fention Oxon Sulfoxido, Fention Sulfona, Fention Sulfóxido, Fentoato, Fenuron, Fenvalerato + Esfenvalerato, Fipronil (Suma), Fipronil, Fipronil Sulfide, Fipronil Sulfona, Flamprop, Flazasulfuron,	**PE-674 (Rev. 25)** Determination of pesticide residues by GC/MS-MS and LC/MS-MS (cont'd)

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Food -Organic (cont'd.)	High water content (Fruits and vegetables); High water content and acid (Fruits); Aromatic herbs and leaves (Vegetables); High content of starch and/or protein and low water content and fat (Cereals and vegetables); High in sugar and low in water (Dried fruits); High oil and low water content (Dry fruits and Oilseeds); High oil and half water content (Fruits); Oils; Wine; Natural juices with no added sugar, Crustaceans (cont'd.)	Flonicamid (Suma), Flonicamid, Florasulam, Fluacinam, Fluazifop-Metil, Fluazifop-P, Fluazifop-P-butil, Flubendiamida, Flucitrinato, Fludioxonilo, Flufenacet (Suma), Flufenacet, Flufenacet ESA, Flufenacet OA, Flufenoxuron, Flumetralina, Flumioxazina, Fluometuron, Fluopicolide, Fluopiram, Fluotrimazol, Fluoxastrobin, Flupiradifuron, Fluquinconazol, Fluroxipir, Fluroxipir Meptil, Flurtamona, Flusilazol, Flutolanil, Flutriafol, Fluvalinato Tau, Fluxapiroxad, Folpet (Suma), Folpet, Fonofos, Foramsulfuron, Forato (Suma), Forato, Forato Oxon, Forato Oxon Sulfona, Forato Oxon Sulfoxido, Forato Sulfona, Forato Sulfoxido, Forclorfenuron, Formetanato, Formotion, Fosalón, Fosfamidon, Fosmet (Suma), Fosmet, Fosmet Oxon, Fostiazato, Foxim, Ftalamida (Folpet), Fuberidazol, Furalaxil, Furatiocarb, Halosulfuron Metil, Haloxifop-2-Ethoxyetil, Haloxifop-Metil, Haloxyfop-R, Heptacloro (Suma), Heptacloro, Heptacloro Epóxido A, Heptacloro Epóxido B, Heptenofos, Hexacloro-1,3-butadieno, Hexaclorobenceno, Hexaconazol, Hexaflumuron, Hexazinona, Hexitiazox, Hidroxiquinoleina-8, Imazalil, Imidacloprid, Indaziflam, Indoxacarb, Iodofenfos, Iodosulfuron Metil, Ioxinil, Iprobenfos, Iprodiona, Iprovalicarb, Isazofos, Isocarbofos, Isofenfos, Isofenfos Metil, Isofetamide, Isopyrazam, Isoprocarb, Isoprotiolano, Isoproturón, Isoxabén, Isoxation, Ivermectina, Kresoxim Metil, Lenacilo, Lindano, Linurón, Lufenuron, Malaoxon, Malation (Suma), Malation, Mandestrobin, Mandipropamid, Matrina, MCPA, Mecarbam, Mefenpir Dietil, Mefentrifluconazole, Mepanipirim, Mepronilo, Meptildinocap,	**PE-674 (Rev. 25)** Determination of pesticide residues by GC/MS-MS and LC/MS-MS (cont'd.)

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Food -Organic (cont'd.)	High water content (Fruits and vegetables); High water content and acid (Fruits); Aromatic herbs and leaves (Vegetables); High content of starch and/or protein and low water content and fat (Cereals and vegetables); High in sugar and low in water (Dried fruits); High oil and low water content (Dry fruits and Oilseeds); High oil and half water content (Fruits); Oils; Wine; Natural juices with no added sugar, Crustaceans (cont'd.)	Mesosulfuron Metil, Metabenztiazuron, Metacrifós, Metaflumizona, Metalaxil, Metamidofos, Metamitrona, Metazacloro, Metconazol, Metidatión, Metil Tiofanato, Metiocarb (Suma), Metiocarb, Metiocarb Sulfona, Metiocarb Sulfóxido, Metobromuron, Metolacloro, Metolcarb, Metomilo, Metoprotrina, Metoxicloro, Metoxifenoxida, Metoxuron, Metrafenona, Metribuzina, Metsulfuron Metil, Mevinfos, Miclobutanil, Milbemectina (Suma), Milbemicina A3, Milbemicina A4 , Mirex, Molinato, Monocrotofós, Monolinurón, Monuron, Napropamida, Neburon, Nicosulfuron, Nitenpiram, Nitrofen, Nitrotal Isopropil, Norflurazon, Novalurón, Nuarimol, o,p-DDD, o,p-DDE, Ofurace, Ometoato, Orizalin, Oxadiargilo, Oxadiazón, Oxadixilo, Oxamilo, Oxasulfuron, Oxatiapiprolin, Oxicarboxina, Oxiclordano, Oxidemetón-metilo (Suma), Oxidemetón-metilo, Oxifluorfén, Oximatrina, p,p-DDE, p,p-DDT, Paclobutrazol, Paraoxon Etil, Paraoxon Metil, Paration Etil, Paration Metil, Paration Metil (Suma), Pencicurón, Penconazol, Pendimetalina, Pentacloroanilina, Pentacloroanisol, Pentaclorobenceno, Pentaclorobenzonitrilo, Pentiopirad, Permetrina, Picolinafen, Picoxistrobina, Pidyflumetofen, Pimetrocina, Pinoxaden, Piperonil Butoxido, Piracarbolid, Piraclostrobina, Piraflufeno, Piraflufeno-etilo, Piraflufeno-etilo (Suma), Pirazofos, Piridabén, Piridafention, Piridalil, Piridato, Pirifenox, Pirimetanil, Pirimicarb, Pirimicarb Desmetil, Pirimicarb Desmetil Formamida, Pirimifos Etil, Pirimifos Metil, Piriproxifén, Procimidona, Procloraz (Suma),	**PE-674 (Rev. 25)** Determination of pesticide residues by GC/MS-MS and LC/MS-MS (cont'd)

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Food -Organic (cont'd.)	High water content (Fruits and vegetables); High water content and acid (Fruits); Aromatic herbs and leaves (Vegetables); High content of starch and/or protein and low water content and fat (Cereals and vegetables); High in sugar and low in water (Dried fruits); High oil and low water content (Dry fruits and Oilseeds); High oil and half water content (Fruits); Oils; Wine; Natural juices with no added sugar, Crustaceans (cont'd.)	Procloraz, Profam, Profenofós, Profluralin, Promecarb, Prometrina, Prometron, Propaclor, Propaclor Ac Oxalamico, Propamocarb, Propanil, Propaquizafop, Propargita, Propazina, Propetamphos, Propiconazol, Propizamida, Propoxur, Proquinazid, Prosulfocarb, Prosulfuron, Protioconazol, Protiofos, Pyriofenone, Quinalfós, Quinclorac, Quinometionato, Quinoxifen, Quintoceno (Suma), Quintoceno, Quizalofop-Ethyl, Rimsulfuron, Rotenona, Saflufenacil, Sebutilazina, Setoxidim (Suma), Setoxidim, Siltiofam, Simazina, Sulcotriona, Sulfosulfuron, Sulfotep, Sulfoxaflor, Sulprofos, Tebuconazol, Tebufenocida, Tebufenpirad, Tecnaceno, Teflubenzurón, Teflutrina, Tepraloxidim, Terbacil, Terbufos, Terbufos Sulfona, Terbufos Sulfóxido, Terbumeton, Terbutilazina, Terbutilazina Desetil, Terbutrin, Tetraclorvinfos, Tetraconazol, Tetradifón, Tetrahidroftalamida (Captan), Tetrametrina, Tetrasul, TFNA, TFNG, Thiametoxam, Tiabendazol, Tiacloprid, Tidiazuron, Tifensulfuron Metil, Tiobencarb, Tiociclam, Tiodicarb, Tiofanox, Tiofanox Sulfona, Tiofanox Sulfoxido, Tiometon, Tolclofos Metil, Tolfenpirad, Tolilfluanida (Suma), Tolilfluanida, Transflutrin, Triadimefon, Triadimenol, Trialato, Triamifos, Triasulfuron, Triazofos, Triazoxida, Triciclazol, Triclopir, Triclorfon, Tricresil Fosfato, Tridemorfo, Trifloxystrobin, Triflumizol (Suma), Triflumizol, Triflumizol FM 6-1, Triflumurón,Trifluralina, Triforina, Triticonazol, Uniconazol, Vamidotion, Vinclozolina, Zoxamida	**PE-674 (Rev. 25)** Determination of pesticide residues by GC/MS-MS and LC/MS-MS (cont'd)

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Food -Organic (cont'd.)		Perchlorate, Chlorate, Etephon, Fosetyl-Al (Sum of Fosetyl, Phosphonic Acid and their salts, expressed as Fosetyl), Phosphonric Acid, Glyphosate, Ammonium Glufosinate.	**PE-690 (Rev. 10)** Determination of Polar Pesticides by LC/MS-MS
	Fresh and dehydrated fruits and vegetables	Patulin	**PC-427 (rev. 1)** Patulin in Food by LC/MS-MS Chromatography
		Diquat, Paraquat	**PC-428 (rev. 1)** Diquat and Paraquat in Fruits and Vegetables by LC/MS-MS Chromatography
Food – Inorganic	Wine and Food	Arsenic, Calcium, Manganese, Cadmium, Copper, Chromium, Iron, Magnesium	**PC-230 (Rev. 13)** Determination of Heavy Metals using ICP
		Lithium, Beryllium, Boron, Aluminium, Titanium, Vanadium, Chromium, Manganese, Iron, Cobalt, Nickel, Copper, Arsenic, Selenium, Strontium, Molybdenum, Silver, Cadmium, Tin, Antimony, Barium, Mercury, Lead, Zinc	**PE-324 (Rev. 34)** Determination of total elements in food by ICP-MS
Food – Microbiology	Food for human consumption	Detection of Listeria Monocytogenes, Detection of Listeria sp.	**ISO 11290-1:2017 (E)** Microbiology of the food chain -- Horizontal method for the detection and enumeration of Listeria monocytogenes and of Listeria spp.— Part 1: Detection method
		Salmonella detection	**NCh2675:2002** Hydrobiological Products - Salmonella Detection
		Determination of total coliforms; Determination of fecal coliforms	**NCh2635/1:2001** Hydrobiological Products, except live bivalve mollusks - Determination of Coliforms - Part 1: Determination of Coliforms and Fecal Coliforms - Most Probable Number Technique (MPN)

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Food – Microbiology (cont'd.)	Food for human consumption (cont'd.)	Determination of aerobic mesophylls	**NCh2659:2002** Hydrobiological products - Determination of mesophilic aerobic microorganisms - Plate count technique at 35°C
		Determination of total coliforms	**NCh2635/2:2001** Hydrobiological Products, except live bivalve mollusks - Determination of Coliforms - Part 2: Plate Count Technique
		Determination of Escherichia coli	**NCh2636:2001** Hydrobiological products, except live bivalve mollusks - Determination of Escherichia coli - Most probable number technique (MPN)
		Determination of Enterobacteriaceae	**NCh2676:2002** Hydrobiological products - Determination of Enterobacteriaceae without resuscitation - Plate count technique
		Determination of Escherichia coli	**ISO 16649-2:2001** Microbiology of food and animal feeding stuffs -- Horizontal method for the enumeration of beta-glucuronidase-positive Escherichia coli-- Part 2: Colony-count technique at 44 degrees C using 5-bromo-4-chloro-3-indolyl beta-D-glucuronide
		Determination of Mould; Yeast determination	**NCh2734:2002** Hydrobiological products - Determination of mould and yeasts - Plate count technique
		Determination of Staphylococcus aureus	**NCh2671:2002** Hydrobiological Products - Coagulase positive Staphylococcus aureus count - Baird-Parker agar plate count technique

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Food – Microbiology (cont'd.)	Food for human consumption (cont'd.)	Determines with presumptive Bacillus cereus	**NCh3116:2008** Microbiology of food for human and animal consumption - Horizontal method for the presumptive enumeration of Bacillus cereus - Plate count technique at 30ºC
	Surfaces, utensils and manipulators	Detection of Listeria Monocytogenes; Detection of Listeria sp	**PC-303 (Rev.5)** based on NCh3057.Of2007 ISO11290-1:2017 Listeria Detection on Surfaces
		Detection of total coliforms, fecal coliforms and Escherichia coli	**PC-209 (Rev.8)** Investigation of Coliforms, Fecal Coliforms and E Coli on Surfaces and Handlers
		Detection of total coliforms and E.coli	**PC-211 (Rev.8)** Coliform and E Coli Count on Surfaces
		Detection of Salmonella spp	**PC-267 (Rev.5)** based on NCh3057.Of2007 NCh2675.Of2002 Salmonella Detection in Handlers and Surface
		Staphylococcus aureus detection	**PC-206 (Rev.9)** based on NCh3057.Of2007 NCh2828.Of2003 Determination of Staphylococcus Aureus on Surfaces and Handlers
		Determination of aerobic mesophylls	**PC-210 (Rev.9)** based on NCh3057.Of2007 NCh2659.Of2002 Determination of Aerobic Mesophilic Microorganisms on Surfaces and Manipulators
		Determination of Enterobacteriaceae	**PC-268 (Rev.3)** Enterobacteriaceae on Surfaces and Manipulators
		Determination of Mould; Determination of Yeast	**PC-252 (Rev.3)** Mould and Yeasts on Surfaces and Handlers

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Food – Microbiology (cont'd.)	Environment (Atmosphere)	Determination of aerobic mesophylls; Determination of Mould (Mould); Determination of yeasts (yeast)	**SM dairy products 17°Ed, chapter 13 13.023**
Vegetation material – Inorganic	Leaves	Chloride	**PE-336 (Rev. 1_CHL)** Ammonium, Chloride, TO and Alkalinity using segmented continuous flow analyzer
		Boron, Calcium, Copper, Phosphorus, Iron, Magnesium, Manganese, Molybdenum, Potassium, Sodium, Zinc, Sulfur	**PEC-009 (Rev. 1_CHL)** Determination of Ca, Mg, Na, K, Fe, Mn, Cu, Zn, Mo, S, P and B by ICP-OES
		Nitrogen	**PEC-034 (Rev. 1_CHL)** Determination of nitrogen
Food - Safety	Reusable feeding nipples and drinking accessories; Reusable baby bottles and drinking glasses; Single-use feeding bottles, feeding nipples, feeding bags, drinking accessories, which do not contain fluid when purchased, and reusable food grade pots.	Determination of BPA	**PC-1041 (Rev.6)** BPA by LC / MS-MS Chromatography
	Materials and articles in contact with food products	Global migration	**UNE-EN-1186-1- Part 1 & 3** Materials and articles in contact with foodstuffs. Plastics
Safety	Toys and School supplies	Total Lead	**ASTM D3335-85A** Low Concentrations of Lead in Paint
		Ignitability Test	**NCh 3251/2:2020** Determination of ignitability
		Toluene	**PC-331 (Rev. 7)** Determination of toluene
		Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Antimony, Selenium	**PC-332 (Rev. 7)** Metals in toys and school supplies by ICP-OES/MS

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Safety (cont'd.)	Toys and School supplies (cont'd.)	Solvents (Acetone, Methanol, Ethanol, 2-Hexanone, 2-Propanol, Benzene, Toluene, Xylenes, Chloroform)	**PC-369 (Rev. 4)** Solvents in School and Office Supplies by GC-FID Headspace
	Toys	Mechanical and physical properties	**EN 71-1** Safety of toys - Part 1: Mechanical and physical properties
		Flammability	**EN 71-2** Safety of toys - Part 2: Flammability
		Aluminum, Antimony, Arsenic, Barium, Boron, Cadmium, Chromium (III), Chromium (VI), Cobalt, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Strontium, Tin, Organic Tin, Zinc	**EN 71-3** Migration of certain elements
	Objects destined to come into contact with food in final product and in migration	Styrene, Acrylonitrile, Vinyl Chloride	**PC-1039 (Rev. 2)** Free Monomers in Materials and plastic objects destined to come into contact with food in final product and in migration
	Materials and Articles in Contact with Food in Materials and articles in contact with food (plastics, metals, cellulose)	Antimonio, Arsénico, Bario, Boro, Cobalto, Cobre, Estaño, Flúor, Hierro, Litio, Manganeso, Plata, Plomo, Zinc	**PC-1040 (Rev.3)** Determination of Metals in Materials and Articles in Contact with Food in Materials and articles in contact with food (plastics, metals, cellulose)
Consumer goods – Organic	Raw materials, semi-finished product or finished product - Insecticide	Pyrethroids	**PC-1049 (Rev. 6)** Determination of Pyrethroids by GC-FID Chromatography
Consumer goods – Inorganic	Raw materials, semi-finished product or finished product – Cleaning product	Free chlorine	**PC-1046 (Rev. 2)** Free Chlorine Analysis
		Quaternary ammonium	**PC-1050 (Rev. 2)** Quaternary Ammonium Analysis by Titration
	Raw materials, semi-finished product or finished product	Density/Specific Gravity	**PC-1048 (Rev. 1)** Density/Specific Gravity Analysis in Disinfectant

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental, Geochem, Mineral and Soil – Inorganic	Minerals, Leachate and Soil	Oxidation pH	**PE-991 (Rev. 2)** Determination of oxidation pH
		Sample preparation	**PE-4017 (Rev. 9)** Preparation of mineral sample
		Neutralization Potential (NP)	**PE-4402 (Rev. 2)** Determination of neutralization potential (NP)
		Neutralization Potential Modification LAWRENCE &WANG	**PE-4403 (Rev. 4)** Neutralization potential modification LAWRENCE &WANG
		Fizz Rating Test	**PE-4409 (Rev. 3)** Fizz Rating
		Net Acid Generation (NAG)	**PE-4413 (Rev. 5)** Net acid generation (NAG)
		Paste pH	**PE-4416 (Rev. 5)** Paste pH
		Oxidation – Reduction Potential (ORP)	**SMEWW 2580-A 24th edition** Oxidation – Reduction Potential (ORP)
	Geochem samples, Minerals, Leachate and Soil (cont'd.)	Metals (Finished by PE-2107/PE-303): Al, Sb, As, S, Ba, Be, B, Bi, Cd, Ca, Co, Cu, Cr, Sn, Sr, P, Fe, Li, Mg, Mn, Hg, Mo, Ni, Ag, Pb, K, Se, Na, Si, Tl, Ti, Zn, Sc, Ga, Te, Th, U, V, W	**PE-4412 (Rev. 2)** Leaching at pH 4.2 of inorganic compounds **PE-2107 (Rev.7)** Total, Dissolved and Soluble Elements in Acids for Waters through ICP-OES **PE-303 (Rev. 29)** Total and Dissolved Elements in Waters by ICP-MS **PE-2090 (Rev. 16)** Anions in Waters by Ion Chromatography **IT-610 (Rev. 8)** Determination of Alkalinity **SMEWW 2540 C (24th edition)** Total Dissolved Solids Dried at 180°C
		Anions (Finished by PE-2090): Chlorides, Fluorides, Nitrates, Nitrites, Sulphates	
		pH (Finished by SMEWW 4500 H+B)	

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental, Geochem, Mineral and Soil – Inorganic (cont'd.)	Geochem samples, Minerals, Leachate and Soil (cont'd.)	pH (Finished by SMEWW 4500 H+B) (cont'd.)	**PC-366 (Rev. 3)** WAD Cyanide **SMEWW 4500 H+B** 24th edition
		Metals (Finished by PE-2107/PE-303): Al, Sb, As, S, Ba, Be, B, Bi, Cd, Ca, Co, Cu, Cr, Sn, Sr, P, Fe, Li, Mg, Mn, Hg, Mo, Ni, Ag, Pb, K, Se, Na, Si, Tl, Ti, V, Zn, Sc, Ga, Te, Th, U, W	**PE-4413 (Rev. 5)** Net acid generation (NAG) **PE-2107 (Rev.7)** Total, Dissolved and Soluble Elements in Acids for Waters through ICP-OES **PE-303 (Rev. 29)** Total and Dissolved Elements in Waters by ICP-MS **PE-2090 (Rev. 16)** Anions in Waters by Ion Chromatography **IT-610 (Rev. 8)** Determination of Alkalinity **SMEWW 2540 C (24th edition)** Total Dissolved Solids Dried at 180°C **PC-366 (Rev. 3)** WAD Cyanide **SMEWW 4500 H+B** 24th edition
		Anions (Finished by PE-2090): Chlorides, Fluorides, Nitrates, Nitrites, Nitrites, Sulphates	
		Total Dissolved Solids (Finished by SMEWW 2540 C)	
		pH (Finished by SMEWW 4500 H+B)	
		Metals (Finished by PE-2107/PE-303): Al, Sb, As, S, Ba, Be, B, Bi, Cd, Ca, Co, Cu, Cr, Sn, Sr, P, Fe, Li, Mg, Mn, Hg, Mo, Ni, Ag, Pb, K, Se, Na, Si, Tl, Ti, V, Zn, Sc, Ga, Te, Th, U, W	**PE-4414 (Rev. 4)** Shake Flask Test, Solubility Testing in Waters and Wastes by Inductively Coupled Plasma - Atomic Spectrometry (ICP-AES) **PE-2107 (Rev.7)** Total, Dissolved and Soluble Elements in Acids for Waters through ICP-OES **PE-303 (Rev. 29)** Total and Dissolved Elements in Waters by ICP-MS **PE-2090 (Rev. 16)** Anions in Waters by Ion Chromatography
		Anions (Finished by PE-2090): Chlorides, Fluorides, Nitrates, Nitrites, Sulphates	
		Total alkalinity and bicarbonate (CaCO3) (Finished by IT-610)	
		Total Dissolved Solids (Finished by SMEWW 2540 C)	
		WAD cyanide (Finished by PC-366)	
		pH (Finished by SMEWW 4500 H+B)	

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental, Geochem, Mineral and Soil – Inorganic (cont'd.)	Geochem samples, Minerals, Leachate and Soil (cont'd.)	pH (Finished by SMEWW 4500 H+B) (cont'd.)	**IT-610 (Rev. 8)** Determination of Alkalinity **SMEWW 2540 C (24th edition)** Total Dissolved Solids Dried at 180°C **PC-366 (Rev. 3)** WAD Cyanide **SMEWW 4500 H+B** 24th edition
Environmental, Geochem, Mineral and Soil – Inorganic (cont'd.)	Soils, Concentrates, Minerals	Mechanical preparation	**PE-4017 (Rev. 9)** Preparation of Mineral Samples
		Aluminum, Antimony, Arsenic, Sulfur, Barium, Beryllium, Bismuth, Boron, Cadmium, Calcium, Cobalt, Copper, Chromium, Scandium, Tin, Strontium, Phosphorus, Gallium, Iron, Indium, Lanthanum, Lithium, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Silver, Lead, Potassium, Selenium, Sodium, Thallium, Titanium, Vanadium, Tungsten, Zinc	**PE-4041 (Rev. 4)** Disaggregation of Mineral Samples. 4-Acid Digestion and Alkaline Fusion (4-Acid Digestion and Aqua Regia Digestion) Accredited for acid digestion only **PE-4042 (Rev. 3)** Metals in Minerals by Induced Coupled Plasma Emission Spectrophotometry (ICP-OES). Aqua Regia Digestion **PE-4043 (Rev. 4)** Metals in Minerals by Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES), four-acid digestion
		Dold Extraction: Soluble Aluminum, Soluble Antimony, Soluble Arsenic, Soluble Sulfur, Soluble Barium, Soluble Beryllium, Soluble Cadmium, Soluble Calcium, Soluble Cobalt, Soluble Copper, Soluble Chromium, Soluble Tin, Soluble Strontium, Soluble Phosphorus, Soluble Iron, Soluble Lithium, Soluble Magnesium, Soluble Manganese, Soluble Molybdenum, Soluble Nickel, Soluble Silver, Soluble Lead, Soluble	**PE-4047 (Rev. 2)** Sequential Dold Extraction for Separation of Metals in Solid Samples

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental, Geochem, Mineral and Soil – Inorganic (cont'd.)	Soils, Concentrates, Minerals (cont'd.)	Selenium, Soluble Sodium, Soluble Thallium, Soluble Titanium, Soluble Vanadium, Soluble Zinc, Soluble Bismuth, Soluble Potassium	**PE-4047 (Rev. 2)** Sequential Dold Extraction for Separation of Metals in Solid Samples (cont'd.)
	Leachate	Iron (II)	**IT-600 (Rev. 2)** Iron (II) by UV-Vis Spectrophotometry
		Electrical conductivity S/F, Electrical Conductivity (filtered sample)	**SMEWW 2510 B (24th Edition)** Electrical Conductivity. Laboratory Method
		pH S/F, pH (filtered sample)	**SMEWW 4500 H^+ B (24th Edition)** pH by Electrometric Method
		Carbonate Alkalinity, Bicarbonate Alkalinity, Total Alkalinity	**SMEWW 2320 B (24th Edition)** Alkalinity by Titration: Carbonate Alkalinity, Bicarbonate Alkalinity, Total Alkalinity
Environmental – Inorganic	Surface water, Ground water, Sea water and Saline water	Foaming power	**ISO 696:1975** Surface active agents -- Measurement of foaming power -- Modified Ross-Miles method
		Total Nitrogen	**IT-689 (Rev. 2)** Total Nitrogen
		Chlorophyll-A	**PC-367 (Rev. 5)** Chlorophyll A in Waters based on SMEWW 10150 B (24th edition)
		Color	**SMEWW 2120 B (24th edition)** Visual Comparison Method
		Total Solids	**SMEWW 2540 B (24th edition)** Total Solids Dried at 103-105ºC
		Total dissolved solids	**SMEWW 2540 C (24th edition)** Total Dissolved Solids Dried at 180ºC

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental – Inorganic (cont'd.)	Surface water, Ground water, Sea water and Saline water (cont'd.)	Total Suspended Solids	**SMEWW 2540 D (24th edition)** Total Suspended Solids
		Settleable Solids	**SMEWW 2540 F (24th edition**) Settleable Solids
		Oils and Greases	**SMEWW 5520 B (24th edition)** Liquid-Liquid Partition Gravimetric Method
	Drinking water, Surface water, Ground water, Sea water, Saline water, Wastewater and Process water, Catchment sources	Total Alkalinity (Alkalinity), Carbonate, Bicarbonate	**IT-610 (Rev. 8)** Determination of Alkalinity based on SMEWW 2320 B Alkalinity Titration Method (24th edition)
		Total, Free and Wad Cyanide	**PC-394 (Rev. 4)** Determination of cyanides, nitrite and nitrate by FIA in water
		Dissolved: Al, Sb, As, S, Ba, Be, B, Cd, Ca, Co, Cu, Cr, Sn, Sr, P, Fe, Li, Mg, Mn, Mo, Ni, Ag, Pb, K, Se, Na, Si, SiO_2, Tl, Ti, V, Zn Total: Al, Sb, As, S, Ba, Be, B, Cd, Ca, Co, Cu, Cr, Sn, Sr, P, Fe, Li, Mg, Mn, Mo, Ni, Ag, Pb, K, Se, Na, Si, SiO_2,Tl, Ti, V, Zn	**PE-2107 (Rev.7)** Total, Dissolved and Soluble Elements in Acids for Waters through ICP-OES based on EPA Method 200.7 - Determination of Trace Elements in Waters and Wastes by Inductively Coupled Plasma - Atomic Spectrometry (ICP-AES)
		Turbidity	**SMEWW 2130 B (24th edition)** Turbidity by Nephelometry method
		Conductivity	**SMEWW 2510 B (24th edition)** Conductivity. Laboratory Method
		Hexavalent chromium	**SMEWW 3500 Cr-B (24th edition)** Chromium by Colorimetry
		Total Cyanide	**SMEWW 4500-CN E (24th edition)** Colorimetric Method Treatment of Samples: 4500-CN-C Total Cyanide After Distillation. CN^-

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental – Inorganic (cont'd.)	Drinking water, Surface water, Ground water, Sea water, Saline water, Wastewater and Process water, Catchment sources (cont'd.)	Total Cyanide (cont'd.)	Cyanide. 24th Edition, 2023. SM-APHA/AWWA/WEF
		Total Cyanide	**SMEWW 4500-CN-F (24th edition)** Cyanide-Ion Selective Electrode Method Treatment of Samples: 4500-CN-C Total Cyanide After Distillation. CN^- Cyanide. 24th Edition 2023. SM - APHA/AWWA/WEF
		pH	**SMEWW 4500 H+B (24th edition)** Electrometric Method
		Ammoniacal Nitrogen (ammonia)	**SMEWW 4500 NH3-D (24th edition)** Ammonia by Selective Electrode
		Nitrite (expressed as NO2 and N-NO2), Nitrite, Nitrogen-nitrite	**SMEWW 4500 NO2- B (24th edition)** Ultraviolet Spectrophotometric Screening Method
		Nitrate, Nitrogen-nitrate	**SMEWW 4500 NO3- D (24th edition)** Nitrate Electrode Method
		Sulfide	**SMEWW 4500 S-2 G (24th edition)** Ion Selective Electrode Method
		Sulphate	**SMEWW 4500 SO4-D (24th edition)** Sulfate in Water by Gravimetry
		Phenols (phenolic compounds, phenol index)	**SMEWW 5530 C (24th edition)** Chloroform Extraction Method Treatment of samples: 5530 B. Cleanup Procedure. 24th Edition 2023. SM - APHA/AWWA/WEF

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental – Inorganic (cont'd.)	Drinking water, Surface water, Ground water, Sea water, Saline water, Wastewater and Process water, Catchment sources (cont'd.)	Anionic Surfactants (SAAM)	**SMEWW 5540 C (24th edition)** Anionic Surfactants as MBAS
	Drinking water, Catchment sources (Surface water, Ground water, and other for human consumption)	Turbidity	**ME-03-2024** Manual SISS, Determination of Turbidity by Nephelometric Method
		Fluoride	**ME-06-2024** Manual SISS, Determination of Fluoride by Specific Electrode Method
		Selenium Total	**ME-10-2024** Manual SISS, Determination of Selenium by AA photometry method with GH
		Arsenic Total	**ME-12-2024** Manual SISS, Determination of Arsenic by AA photometry method with GH
		Nitrogen-Nitrate	**ME-16-2024** Manual SISS, Determination of Nitrate by Specific Electrode Method
		Nitrogen-Nitrite	**ME-17-2024** Manual SISS, Determination of Nitrite by UV-VIS molecular absorption spectrophotometry method
		Color (True Color)	**ME-24-2024** Manual SISS, True Color Determination by Pt-Co Method
		Ammoniacal Nitrogen (ammonia)	**ME-27-2024** Manual SISS, Determination of Ammonia by Specific Electrode Method

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental – Inorganic (cont'd.)	Drinking water, Catchment sources (Surface water, Ground water, and other for human consumption) (cont'd.)	Chloride	**ME-28-2024** Manual SISS, Determination of Chloride by Argentometric Method
		pH	**ME-29-2024** Manual SISS, Determination of pH by Electrometric Method
		Total Solids dissolved	**ME-31-2024** Manual SISS, Determination of Solids dissolved by Gravimetric Method
		Phenolic compounds (Phenols, phenol index)	**ME-32-2024** Manual SISS, Determination of phenolic compounds by UV-VIS molecular absorption spectrophotometry method
		Monochloramine	**ME-23-2024** Manual SISS, Titrimetric method of DPD with FAS
		Free residual chlorine (Free chlorine)	**ME-33-2024** Manual SISS, Titrimetric method of DPD with Ferrous Titrimetric (F.A.S.) – Method used to verify field equipment
		Odor	**ME-25-2024** Manual SISS, Odor Determination by Organoleptic Method
		Taste	**ME-26-2024** Manual SISS, Taste Determination by Organoleptic Method
	Drinking water, Catchment sources	Sulfate	**ME-30-2024** Determination of Sulfate by Gravimetric Method with waste drying

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental – Inorganic (cont'd.)	Drinking water, Surface water and Ground water	Dissolved: Al, Sb, As, Ba, Be, Bi, B, Cd, Ca, Co, Cu, Cr, Sc, Sn, Sr, P, Ga, Fe, Li, Mg, Mn, Hg, Mo, Ni, Ag, Pb, K, Se, Na, Tl, Te, Ti, Th, U, V, W, Zn Total: Al, Sb, As, Ba, Be, Bi, B, Cd, Ca, Co, Cu, Cr, Sc, Sn, Sr, P, Ga, Fe, Li, Mg, Mn, Hg, Mo, Ni, Ag, Pb, K, Se, Na, Tl, Te, Ti, Th, U, V, W, Zn	**PE-303 (Rev. 29)** Total and Dissolved Elements in Waters by ICP-MS Spectroscopy based on EPA Method 200.8 - Determination of Trace Elements in Waters and Wastes by Inductively Coupled Plasma - Mass Spectrometry (ICP-MS)
		Langelier Index (Saturation Index)	**SMEWW 2330B (24th edition)** Langelier Index (Saturation Index)
		Hardness	**SMEWW 2340B (24th edition)** Hardness by Calculation
	Wastewater, Sea water, Ground water, Surface water, Leachate	Acidity	**SMEWW 2310 B (24th Edition)** Acidity by Potentiometric Titration
	Wastewater, Sea water, Ground water, Surface water	Salinity	**SMEWW 2520 B (24th Edition)** Salinity by Electrical Conductivity Method
	Wastewater, Sea water, Saline water, Ground water, Surface, Drinking wáter, Catchment sources. and Process water.	Density	**PC-438** Rev.1 – Density in Water Based on Standard Methods 2520 C (24th Edition).
	Wastewater, Sea water, Ground water, Surface, Drinking water	Chloride	**SMEWW 4500 Cl B (24th Edition)** Chloride
	Wastewater, Sea water, Ground water, Surface water, Drinking water	Fluoride	**SMEWW 4500 F C (24th Edition)** Fluoride by Ion Selective Electrode
	Wastewater, Sea water, Ground water, Surface water	Kjeldahl Nitrogen (Organic Nitrogen)	**SMEWW 4500 N_{org} B (24th Edition)** Nitrogen (Organic) by Macro-Kjeldahl Method

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental – Inorganic (cont'd.)	Sea water, Ground water, Surface, Drinking water	Nitrates	**SMEWW 4500 NO3 B (24th Edition)** Nitrates by UV Spectrophotometric Method
	Sea water, Ground water, Surface water	Phosphorus stannous	**SMEWW 4500 P D (24th Edition)** Phosphorus by Stannide Chloride Method
	Drinking water, Surface water, Ground water, and Process water	Sodium Adsorption Ratio (RAS) and Sodium Percentage	**NCh 1333:1978 Mod. 1987** Sodium Adsorption Ratio (RAS) and Sodium Percentage
	Wastewater	pH	**NCh 2313/1:2021** Wastewater - Methods of analysis - Part 1: Determination of pH
		Total suspended solids	**NCh 2313/3:1995** Wastewater - Methods of analysis - Part 3: Determination of total suspended solids dried at 103°C - 105°C
		Sedimentable solids	**NCh 2313/4:1995** Wastewater - Methods of analysis - Part 4: Determination of settleable solids - Volumetric method
		DBO5	**NCh 2313/5:2005** Wastewater - Methods of analysis - Part 5: Determination of Biochemical Oxygen Demand (BOD5)
		Arsenic	**NCh2313/9:1996** Determination of Arsenic
		Hexavalent chromium	**NCh2313/11: 1996** Determination of hexavalent chromium
		Mercury	**NCh2313/12: 1996** Determination of mercury

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental – Inorganic (cont'd.)	Wastewater (cont'd.)	Total Cyanide	**NCh 2313/14:1997** Wastewater - Methods of analysis - Part 14: Determination of total cyanide
		Total phosphorus	**NCh 2313/15:2009** Wastewater - Methods of analysis - Part 15: Determination of total phosphorus
		Ammoniacal Nitrogen (ammonia)	**NCh 2313/16:2010** Wastewater - Methods of analysis - Part 16: Determination of ammonia nitrogen - Potentiometric method
		Total Sulfide	**NCh 2313/17:1997** Wastewater - Methods of analysis - Part 17: Determination of total sulfur
		Dissolved sulfates	**NCh 2313/18:1997** Wastewater - Methods of analysis - Part 18: Determination of dissolved sulphate by waste calcination
		Phenol Index (Phenols, phenolic compounds)	**NCh 2313/19:2001** Wastewater - Methods of analysis - Part 19: Determination of the phenol index - Spectrometric method of 4-aminoantipyrine after distillation
		Foaming power	**NCh 2313/21:2010** Wastewater - Methods of analysis - Part 21: Determination of the foaming power
		DQO	**NCh 2313/24:1997** Wastewater - Methods of analysis - Part 24: Determination of chemical oxygen demand (COD)

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental – Inorganic (cont'd.)	Wastewater (cont'd.)	Total Aluminum, Total Arsenic, Total Boron, Total Cadmium, Total Cinc, Total Copper, Total Chrome, Total Tin, Total Iron, Total Magnesium, Total Manganese, Total Mercury, Total Molybdenum, Total Nickel, Total Lead, Total Selenium	**NCh 2313/25:1997** Wastewater - Methods of analysis - Part 25: Determination of metals by plasma emission spectroscopy - Inductively coupled plasma method (I.C.P.)
		Anionic surfactants	**NCh 2313/27:1998** Determination of anionic surfactants
		Total Nitrogen Kjeldahl	**NCh 2313/28:2009** Wastewater - Methods of analysis - Part 28: Determination of nitrogen Kjeldahl - Potentiometric method with previous digestion
		Selenium	**NCh2313/30:1999** Selenium Determination
		Chloride	**NCh 2313/32:1999** Wastewater - Methods of analysis - Part 32: Chloride determination - Mohr Argentometric method
		Fluoride	**NCh 2313/33:1999** Wastewater - Methods of analysis - Part 33: Determination of fluoride - Potentiometric method after distillation
		Sample Collection of Wastewater	**PICH-212 (Rev. 8)** Wastewater Sample Collection based on NCh 411/10:2005 and NCh 411/3:2014
	Wastewater and process water	Oils and Greases	**NCH 2313/6:2015** Wastewater - Methods of analysis - Part 6: Determination of oils and greases

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental – Inorganic (cont'd.)	Wastewater and process water (cont'd.)	Total Hydrocarbons, Fixed Hydrocarbons, Volatile Hydrocarbons	**NCh 2313/7:2021** Wastewater - Test methods - Part 7: Determination of total hydrocarbons
	Drinking water, Surface water, Ground water, Wastewater and Process water	Free Cyanide	**PC-365 (Rev. 3)** Free Cyanide based on SMEWW 4500-CN J Colorimetric Method (24th edition)
		WAD Cyanide	**PC-366 (Rev. 3)** WAD Cyanide based on SMEWW 4500-CN I. Weak Acid Dissociable Cyanide (24th edition)
		Chloride, Fluoride, Phosphate, Nitrate, Nitrogen-Nitrate,Nitrite, Nitrogen-Nitrite, Sulfate, Bromide, Chlorite, Chlorate	**PE-2090 (Rev. 16)** Anions in Waters by Ion Chromatography based on EPA Method 300.1
	Sea water, Ground water, Surface water, Drinking water	Nitrates	**PC-394 (rev. 4)** Determination of nitrates, nitrites and cyanide by FIA
		Nitrites	
	Surface water, Ground water, Drinking water	Gold	**PC-429 (rev. 1)** Determination of gold in water by ICP-MS
	Wastewater, Process water, Sea water and Saline water	Dissolved: Al, Sb, As, Ba, Be, Bi, B, Cd, Co, Cu, Cr, Sc, Sn, Sr, P, Ga, Fe, Li, Mn, Hg, Mo, Ni, Ag, Pb, Se, Tl, Te, Ti, Th, U, V, W, Zn Total: Al, Sb, As, Ba, Be, Bi, B, Cd, Co, Cu, Cr, Sc, Sn, Sr, P, Ga, Fe, Li, Mn, Hg, Mo, Ni, Ag, Pb, Se, Tl, Te, Ti, Th, U, V, W, Zn	**PE-303 (Rev. 29)** Total and Dissolved Elements in Waters by ICP-MS Spectroscopy based on EPA Method 200.8 - Determination of Trace Elements in Waters and Wastes by Inductively Coupled Plasma - Mass Spectrometry (ICP-MS)
	Hazardous Waste (TCLP-SPLP) – solid and liquid	Dissolved: Cr, Pb, Ba, Cd, Ag Total: Cr, Pb, Ba, Cd, Ag	**PC-432 (Rev.1)** Total, Dissolved and Soluble Elements in Acids for Waters through ICP-OES

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental – Inorganic (cont'd.)	Hazardous Waste (TCLP-SPLP) – solid and liquid (cont'd.)	Liquid Flammability Test	**EPA Method 1010B/ASTM D8175-18** Test Methods For Flash Point By Pensky-Martens Closed Cup Tester
		Solid Flammability test	**EPA Method 1030-1** Ignitability of Solids
		TCLP Extraction: organic and inorganic	**EPA Method 1311-1** Toxicity Characteristic Leaching Procedure
		SPLP Extraction: organic and inorganic	**EPA Method 1312-1** Synthetic Precipitation Leaching Procedure
		Dissolved: Arsenic, chromium, mercury, lead, selenium, barium, cadmium, silver, vanadium, manganese, magnesium, iron, copper, zinc Total: Arsenic, chromium, mercury, lead, selenium, barium, cadmium, silver, vanadium, manganese, magnesium, iron, copper, zinc	**PC-431 (rev. 1)** Determination of Inorganics in Hazardous Waste by ICP-MS
		Cyanide	**EPA Method 9013A** Extraction process/EPA Method 9010C Distillation process/9014 UV-VIS Spectrophotometric determination Cyanide
		Corrosivity	**EPA Method 1110A** Corrosivity Toward Steel
		Sulfides	**EPA 9030B** Acid-Soluble and Acid-Insoluble Sulfides, **EPA 9215** Potentiometric Determination of Sulfide in Aqueous Samples and Distillates with Ion-Selective Electrode
	Soils, sediments, sludge	Preparation	**PE-101 (Rev. 1_CHL)** Preparation of Soil and Substrate Samples in General

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental – Inorganic (cont'd.)	Soils, sediments, sludge (cont'd.)	Total Organic Carbon, Organic Matter	**PE-2129 (Rev. 1_CHL)** Determination of Organic Matter and Organic Carbon in Soils by Elemental Analyzer
		Apparent density	**PE-2170 (Rev. 1)** Bulk Density in Soils
	Soils, Sludge, Lacustrine sediments, Marine Sediment and Aquatic sediments (fluvial (rivers), estuarine)	Sb, As, Be, Bi, Cd, Co, Cr, Sn, Li, Hg, Mo, Ni, Ag, Pb, Se, Tl, Te,V	**PE-325 (Rev. 20)** Determination of Metals in soil and sludge based on EPA Method 200.8 - Determination of Trace Elements in Waters and Wastes by Inductively Coupled Plasma - Mass Spectrometry (ICP-MS) **PE-150 (Rev. 22)** Digestion of samples by digester block. Based on EPA 3050B "Acid Digest of Sediments, Sludges, and Soils"; SM 3030E. Standard Methods for the Examination of Water and Wastewater 24th edition. Nitric acid digestion
		Al, S, Ba, B, Ca, Cu, Sr, P, Fe, Mg, Mn, K, Na, Si, Ti, Zn	**PE-951 (Rev. 13)** Determination of Metals in soil and sludge by ICP based on EPA Method 200.7 - Determination of Trace Elements in Waters and Wastes by Inductively Coupled Plasma - Atomic Spectrometry (ICP-AES) **PE-150 (Rev. 22)** Digestion of samples by digester block. Based on EPA 3050B "Acid Digest of Sediments, Sludges, and Soils"; SM 3030E. Standard Methods for the Examination of Water and Wastewater 24th edition. Nitric acid digestion

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental – Inorganic (cont'd.)	Soils, Sludge, Lacustrine sediments, Marine Sediment and Aquatic sediments (fluvial (rivers), estuarine) (cont'd.)	Moisture, Total solids	**PEC-022 (Rev. 1_CHL)** % Moisture, Dry Matter and Total Solids
		Total organic matter	**PEC-012 (Rev.14)** Total Organic Matter
		Fixed solids; Volatile solids	**Method 3.1 of the Protocol of Analysis Methods for Soils and Sludges.**
	Irrigation water and soil solutions	Alkalinity, Nitrates, Ammonium, Chlorides	**PE-336 (Rev. 1_CHL)** Ammonium, Chloride, TON and Alkalinity using segmented continuous flow analyzer
		Aluminum, Boron, Calcium, Copper, Magnesium, Manganese, Iron, Phosphate, Potassium, Sodium, Sulphate, Zinc	**PEC-009 (Rev. 1_CHL)** Determination of Al, B, Ca, Cu, Fe, K, Mg, Mn, Mo, P, Na, S, Si, Zn by inductively coupled plasma optical emission spectroscopy
	Irrigation water and soil solutions, Soils; Sludge; Lacustrine sediments; Marine Sediment; Aquatic sediments (fluvial (rivers), estuarine),	pH	**PEC-001 (Rev. 1_CHL)** Determination of pH
		Conductivity	**PEC-002 Rev. 1_CHL)** Determination of Electrical Conductivity
	Groundwater	Sample Collection of Groundwater, Water table measurement	**PICH-210 (Rev. 9)** Groundwater Sample Collection based on NCh 411/11:1998 and NCh411/3:2014
	Drinking water, Surface water, Sea water and Saline water	Sample Collection of Drinking water, Surface water, Sea water and Saline water	**PICH-211 (Rev. 9)** Drinking Water, Catchment Sources and Raw Water Sample Collection based on NCh 409/2:2004, NCh 411/3:2014 and SISS, Manual

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental – Inorganic (cont'd.)	Drinking water	Odor	**PICH-213 (Rev. 4)** Odor determination in situ based on NCh409/1:2005, NCh410:1996. SMEWW 2170 (24th edition)
		Taste	**PICH-214 (Rev. 4)** Taste determination in situ Based on NCh409/1:2005, NCh410:1996. SMEWW 2170 (24th edition)
	Soils	Sampling of soils parameters	**PICH-302 (Rev. 4)** Sampling of soils based on NCh 3400:2016
	Lacustrine sediments, Marine Sediment and Aquatic sediments (fluvial (rivers), estuarine)	Sampling of Lacustrine sediments, Marine Sediment, Aquatic sediments (fluvial (rivers), estuarine) and Sludge parameters	**PICH-303 (Rev. 3)** Sampling of Sediments and Sludge based on ISO 5667-12:2017
	Drinking Water, Surface water, Ground water, Sea water and Saline water	Odor	**SMEWW 2150 B (24th edition)** Threshold Odor Test
		DBO5	**SMEWW 5210 B (24th edition)** Biochemical Oxygen Demand 5-Day Bod Test
		DQO	**SMEWW 5220 D (24th edition)** Chemical Oxygen Demand Closed Reflux Colorimetric Method
	Drinking water, marine water, wastewater, surface water, groundwater	Total solids	**SMEWW 2540 B (24th edition)** Total Solids Dried at 103-105 °C
		Fixed solids, Volatile solids	**SMEWW 2540 E (24th edition)** Fixed and Volatile Solids Ignited at 550°C
	Sea water and Saline water	Ammonium	**PC-404 (Rev.1)** based on SMEWW 4500-NH3-F (24th edition) Phenate Method

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental – Inorganic (cont'd.)	Sea water and Saline water (cont'd.)	Nitrate (expressed as NO3 and N-NO3)	**SMEWW 4500 NO3- E (24th edition)** Cadmium Reduction Method
	Wastewater, Sea water, Saline water, Ground water, Surface, Drinking water, Catchment sources. and Process water.	Total Dissolved Solids.	**IT-1263 Basado en SM 1030 (24th edition)** Total Dissolved Solids. Drinking water, Inland waters (surface,groundwater), Wastewater).
	Soils, Sludges, marine sediments, Lacustrine sedimentss, Aquatic sediments (fluvial (rivers), estuarine), minerals	Sieve Mesh Particle Retention Size(s) – Granulometry 0,053 mm; Granulometry 0,063 mm; Granulometry 0,075 mm; Granulometry 0,106 mm; Granulometry 0,125 mm; Granulometry 0,150 mm; Granulometry 0,212 mm; Granulometry 0,250 mm; Granulometry 0,425 mm; Granulometry 0,500 mm; Granulometry 0,850 mm; Granulometry 1,00 mm; Granulometry 1,18 mm; Granulometry 2,00 mm; Granulometry 4,00 mm; Granulometry 4,75 mm; Granulometry 6,30 mm; Granulometry 8,00 mm; Granulometry 9,50 mm; Granulometry 19,00 mm; Granulometry 63 mm; Granulometry 75 mm Granulometry % bottom	**PE-4039 (Rev. 1_CHL)** Granulometric analysis
Environmental – Organic	Drinking water, Surface water, Ground water, Sea water, Saline water, Waste water and Process water	Pesticides: Aldrín, α-BHC, Ametrina, Atrazina, Atraton, Azinfos Metil, Beta-HCH, Cis-Clordano (α-Clordano), Beta-Clordano (Trans -clordano), Chlorobenzilate, Delta-HCH, Diazinon, Dieldrin, Diallate, Demeton S, Disulfoton Endosulfan I, Endosulfan II, Endosulfan Sulfato, Endrin, Endrin Aldehido, Endrin	**PC-204 (Rev. 17)** Determination of pesticide residues, Polycyclic Aromatic Hydrocarbons and polychlorinated biphenyls using GC-MS-MS based on EPA Method 8270 D method

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental – Organic (cont'd.)	Drinking water, Surface water, Ground water, Sea water, Saline water, Wastewater and Process water (cont'd.)	Cetona, Etion, Heptacloro, Epóxido de Heptacloro , Hexaclorobenceno, Isodrin, Lindano, Malation, Metoxiclor, p,p-DDD, p,p-DDE, pp-DDT, Paration Etil (Paration), Metil Paration , Piridaben, Prometrina, Prometros, Propazina, Simazina, Simetrina, Terbutilazina, Terbutrin, Trietazina, Trifluralin, Vinclozolina,1,2-Dibromo-3-chloropropane, PAH´s: Acenafteno, Acenaftileno, Benzo (a) antraceno, Benzo (a) pireno, Benzo (b) fluoranteno, Benzo (e) pireno, Benzo (g,h,i) perileno, Benzo (k) fluoranteno, Dibenzo (a,h) antraceno, Indeno (1,2,3-c,d) pireno, Pireno, Criseno, Fenantreno, Fluoranteno, Fluoreno, Naftaleno, Antraceno PCB´s: PCB nº 101, PCB nº 118, PCB nº 138, PCB nº 153, PCB nº 180, PCB nº 28, PCB nº 52	**PC-204 (Rev. 17)** Determination of pesticide residues, Polycyclic Aromatic Hydrocarbons and polychlorinated biphenyls using GC-MS-MS based on EPA Method 8270 D method (cont'd.)
		Cloruro de Vinilo, 1,1-Dicloroeteno, Diclorometano, Trans-1,2-Dicloroeteno, 1,1-Dicloroetano, Cis-1,2-Dicloroeteno, 2,2-Dicloropropano, Cloroformo, 1,1,1-Tricloroetano, 1,1-Dicloropropeno, Tetracloruro de Carbono, 1,2-Dicloroetano, Benceno, Tricloroeteno (1,1,2), 1,2-Dicloropropano, Dibromometano, Bromodiclorometano (Diclorobromometano), Cis-1,3-Dicloropropeno, Tolueno, Trans-1,3-Dicloropropeno, 1,1,2-Tricloroetano, Tetracloroeteno (Tetracloroetileno), 1,3-Dicloropropano, Clorodibromometano, Clorobenceno, 1,1,1,2-Tetracloroetano, Etilbenceno, m,p-Xileno, o-Xileno, Estireno, Bromoformo (Tribromometano), Isopropilbenceno, 1,1,2,2-Tetracloroetano, 1,2,3-Tricloropropano, Bromobenceno, n-Propilbenceno, 2 – Clorotolueno, 1,3,5-Trimetilbenceno, 4-Clorotolueno, terc-Butilbenceno,	**PC-241 (Rev. 18)** Determination of VOCs in Waters based on EPA 5021 A

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental – Organic (cont'd.)	Drinking water, Surface water, Ground water, Sea water, Saline water, Wastewater and Process water (cont'd.)	1,2,4-Trimetilbenceno, sec-Butilbenceno , 1,3-Diclorobenceno, p-Isopropiltolueno, 1,4-Diclorobenceno, 1,2-Diclorobenceno, 1,2-Dibromo -3 – Cloropropano, 1,2,4-Triclorobenceno, Hexaclorobutadieno, Naftaleno, 1,2,3-Triclorobenceno Sum of trihalomethane, Sum of xylenes	**PC-241 (Rev. 18)** Determination of VOCs in Waters based on EPA 5021 A (cont'd.)
	Surface and groundwater	MIBK (methyl isobutyl ketone)	**PC-433 rev 1** Determination of MIBK (methyl isobutyl ketone) in water by GC-FID-HS
	Wastewater, surface water, groundwater	Oils and fats	**IT-1257 rev. 1** Determination of Oils and fats /Hydrocarbons in Water based on SM 5520C and SM5520F. Version 24 of 2023
	Wastewater, surface water, groundwater	Hydrocarbons	**IT-1257 rev.1** Determination of Oils and fats /Hydrocarbons in Water based on SM 5520C and SM5520F. Version 24 of 2023
	Soils, Sludge, Lacustrine sediments, Marine Sediment and Aquatic sediments (fluvial (rivers), estuarine)	Pesticides: Alacloro, Aldrín, α-BHC, Ametrina, Atrazina, Azinfos Metil, Benalaxil, Beta-HCHCaptan, Cipermetrina, Ciproconazol, Clodinafop Propargil ester, Cis-Clordano (α- Clordano), Beta-Clordano (Trans-clordano), Clordecona, Clorfenvinfos, Clorotalonil, Clorpirifos , Clortal-Dimetil, Delta-HCH, Diazinon, Dieldrin, Diflufenican, Dimetoato (SP), Endosulfan I, Endosulfan II, Endosulfan Sulfato, Endrina, Endrin Aldehido, Endrin Cetona, EPTC, Etion, Etoprofos, Fenamifos (SP), Flusilazol, Folpet, Heptacloro (SP), Epóxido de Heptacloro , Hexaclorobenceno, Isodrin, Lindano,	**PC-205 (Rev. 9)** Determination of pesticide residue, Polycyclic Aromatic Hydrocarbons and polychlorinated biphenyls using GC-MS-MS based on EPA Method 8270 D

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental – Organic (cont'd.)	Soils, Sludge, Lacustrine sediments, Marine Sediment and Aquatic sediments (fluvial (rivers), estuarine) (cont'd.)	Malation (SP), Metalaxil (SP), Metidation, Metolacloro, Metoxicloro, Metribuzina, Miclobutanil, Mirex, Molinato, o,p-DDT, Oxifluorfen, p,p'-DDD, p,p'-DDE, pp-DDT, Paration Etil (Paration), Paration Metil (SP), Pendimetalina, Pentaclorobenceno, Piridaben, Pirimetanil, Prometrina, Propazina, Propizamida, Simazina, Simetrina, Terbutilazina, Terbutrin, Tetradifon, Triclorfon, Trietazina, Trifluoralin, Vinclozolina (SP) PAH´s: Acenafteno, Acenaftileno, Antraceno, Benzo (a) antraceno, Benzo (a) pireno, Benzo (e) pireno, Benzo (b) fluoranteno, Benzo (g,h,i) perileno Benzo (k) fluoranteno, Criseno, Dibenzo (a,h) antraceno, Fluoranteno, Fluoreno, Indeno (1,2,3 – c,d) pireno, Fenantreno, Pireno, Naftaleno PCBs: PCB nº 101, PCB nº 118, PCB nº 138, PCB nº 153, PCB nº 180, PCB nº 28, PCB nº 52	**PC-205 (Rev. 9)** Determination of pesticide residue, Polycyclic Aromatic Hydrocarbons and polychlorinated biphenyls using GC-MS-MS based on EPA Method 8270 D (cont'd.)
	Solid and liquid waste	Benzene, Carbon tetrachloride, Cis-chlordane, Trans-chlordane, Chlorobenzene, Chloroform, o-cresol, m-cresol, p-cresol, Cresol, 2.4 D, 1,4 Dichlorobenzene,1,2 Dichloroethane, 1,1 Dichloroethylene, 2,4 Dinitrotoluene, Endrin, Heptachlor, Heptachlor epoxide, Hexachlorobenzene, Hexachloro-1,3-butadiene, Hexachloroethane, Lindane, Methoxychlor, Methyl ethyl ketone, Nitrobenzene, Pentachlorophenol, Pyridine, Tetrachloroethylene, Toxaphene, Trichloroethylene, 2,4,5-Trichlorophenol, 2,4,6 Trichlorophenol, 2,4,5 –TP (silvex) and Vinyl Chloride.	**PC-430 (Rev.1)** Determination of organic compounds in hazardous waste by LC-MS-MS/GC-MS-MS /GC-MS-P&T

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental – Organic (cont'd.)	Biotas	PAHs and PCBs	**PC-225 rev 10** Determination of PAH and PCB pesticide residues in hydrobiological products by GC/MS-MS chromatography
	Soil, sediments, sludge	Nitrogen	**PEC-034 (Rev. 1_CHL)** Determination of nitrogen dumas in soils, vegetables, fruits and fertilizers
	Sediments	Benzene, Toluene, Ethylbenzene, o-xylene, m, p-xylenes, Sum Xylenes (o-xylene + m, p-xylene)	**PC-241 (Rev. 18)** Determination of VOCs in water, soil and sediments
	Sediments, Sea water	Bis phthalate	**PC-426 (Rev. 2)** Determination of phthalate esters in water and sediments by GC/MS-MS chromatography
	Drinking water, Surface water, Ground water, Sea water, Saline water, Waste water, Process water, Soils; Lacustrine sediments; Marine Sediment; Aquatic sediments (fluvial (rivers), estuarine)	Volatile Hydrocarbons C6-C10; Fixed Hydrocarbons >C10-C28; Fixed Hydrocarbons >C28-C40; Fixed Hydrocarbons >C10-C40; Total Petroleum Hydrocarbons (TPHs) C6-C40	**PE-649 (Rev. 12)** Determination of Hydrocarbon in a range C6 - C40, water and soils by Gas Chromatography – FID based on EPA Method 8015 D and Draft TNRCC Method 1006
	Sea water, Wastewater, Surface water, Ground water, Drinking water	Total Organic Carbon	**SMEWW 5310 B (24th Edition)** Total Organic Carbon by High Temperature Combustion
	Hazardous Waste (TCLP-SPLP) – solid and liquid	Organics	**EPA Method 1312-1** Synthetic Precipitation Leaching Procedure

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental – Microbiology	Drinking water, catchment sources	Escherichia coli	**ME-01-2024** Manual SISS (Superintendency of Sanitary Services Manual of test methods for drinking water), Multiple Tube Method
		Escherichia coli	**ME-02-2024** Manual SISS (Superintendency of Sanitary Services Manual of test methods for drinking water), Membrane filtration method
		Total coliforms (Coliform bacteria)	**NCh1620/1:2020** Water - Determination of total coliform bacteria and Escherichia coli - Part 1: Multiple tube method (MPN)
		Total coliforms (Coliform bacteria)	**NCh1620/2:2020** Water - Determination of total coliform bacteria and Escherichia coli - Part 2: Membrane filtration method
		Enterococo Fecal	**ISO 7899-2:2000** Water quality -- Detection and enumeration of intestinal enterococci-- Part 2: Membrane filtration method
		Determination of fecal coliforms	**SMEWW 9222 G (24th Edition)** Other Escherichia coli Procedures
	Wastewater	Fecal coliforms	**NCh2313/22.Of95**
	Surface water, groundwater, seawater	Fecal coliforms	**SMEWW 9222 D (24th Edition)** Thermotolerant (Fecal) Coliform Procedure
	Drinking water, surface water, groundwater, seawater, wastewater	Fecal coliforms	**SMEWW 9221 E-1 (24th Edition)** Thermotolerant (Fecal) Coliform Procedure

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental – Microbiology (cont'd.)	Drinking water, surface water, groundwater, seawater, wastewater (cont'd.)	Total coliforms (Coliform bacteria)	**SMEWW 9221 B (24th Edition)** Standard Total Coliform Fermentation Technique
		Escherichia coli	**SMEWW 9221 F (24th Edition)** Escherichia coli Procedures Using Fluorogenic Substrate
	Drinking water, surface water, groundwater, seawater	Total coliforms (Coliform bacteria)	**SMEWW 9222 B (24th Edition)** Standard Total Coliform Membrane Filter Procedure using Endo Media
	Drinking water, catchment sources, surface water, groundwater, seawater	Escherichia coli	**SMEWW 9222 H (24th Edition)** Partitioning E. coli from MF Total Coliform using EC-MUG Broth
Environmental – Microbiology (cont'd.)	Soils, sediments (lacustrine, marine) and aquatic sediments (fluvial, rivers, estuarine), sludge.	Fecal coliforms	**PC-439 Rev.1 –** Determination of Total Coliforms, Fecal Coliforms, and *Escherichia coli* by the MPN Method, based on TMECC (MPN) – Total Coliforms, Fecal Coliforms, and *E. coli*
		Total coliforms	
		Escherichia coli	