



CERTIFICATE OF ACCREDITATION

This is to attest that

AGQ PERÚ S.A.C.

AV. LUIS JOSÉ DE ORBEGOSO NO 350, URBANIZACIÓN EL PINO, SAN LUIS
LIMA, 15022, REPUBLIC OF PERU

Testing Laboratory TL-502

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.

Effective Date January 17, 2023



A handwritten signature in black ink, reading 'Rey Nathan'.

President

IAS is an ILAC MRA Signatory

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SCOPE OF ACCREDITATION

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AGQ PERÚ S.A.C.

www.agqlabs.pe

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Accredited to ISO/IEC 17025:2017

Effective Date January 17, 2023

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
ENVIRONMENTAL - OILS	Dielectric Oil	Polychlorinated Biphenyls (PCBs)	ASTM D4059 Standard Test Method for Analysis of polychlorinated Biphenyls in Insulating Liquids (Dielectric oil) by Gas Chromatography.
		Aroclors Aroclor 1242 Aroclor 1254 Aroclor 1260	ASTM D4059 Standard Test Method for Analysis of polychlorinated Biphenyls in Insulating Liquids (Dielectric oil) by Gas Chromatography.
		Polychlorinated Biphenyls (PCBs)- Total	UNE-EN 61619 Insulating liquids - Contamination by polychlorinated biphenyls (PCBs) - Method of determination by capillary column gas chromatography
ENVIRONMENTAL - ORGANICS	Natural Water, Drinking Water, Saline Water, Process Water and Wastes Water (Field collection + Lab Testing)	Total Petroleum Hydrocarbons: C5-C10, C10-C28 C28-C40, C8-C40 C6-C10, C10-C40 C5-C40, C6-C40 C8-C10	EPA Method 8015C Total Petroleum Hydrocarbons Non-Halogenated Organics using GC-FID / Volatile organic compounds in various sample matrices using equilibrium headspace analysis / Separatory funnel liquid - liquid extraction.
		Aldrin; Alfa -BHC, Beta -BHC; Gamma -BHC(Lindano); Delta-BHC; cis-Clordano; trans-Clordano; 4,4'-DDD; 4,4'-DDE; 4,4'-DDT; Dieldrin; Endosulfan I; Endosulfan II; Endosulfan Sulfato; Endrin; Endrin aldehido; Endrin Cetona; Heptacloro; Heptacloro Epoxido; Metoxiclor; Aldrin+Dieldrin; Clordano; Heptacloro	EPA Method 8081B Organochlorine Pesticides by gas Chromatography.

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ENVIRONMENTAL – ORGANICS (cont'd.)	Natural Water, Drinking Water, Saline Water, Process Water and Wastes Water (Field collection + Lab Testing) (cont'd.)	+ Heptacloro Epóxido; Lindano; Endosulfán; DDT (Suma de 4,4'-DDD y 4,4'-DDE)	
		Polychlorinated Biphenyls (PCBs) PCB No 28; PCB No 52; PCB No 101; PCB No 118; PCB No 138; PCB No 153; PCB No 180; PCB's Sum	EPA Method 8082 A Polychlorinated Biphenyls (PCBs) by gas chromatography
		Volatile Organic Compounds 1,1,1,2-tetracloroetano; 1,1,1-tricloroetano; 1,1,2,2-tetracloroetano; 1,1-dicloroetano; 1,2,3- Triclorobenceno; 1,2,4- Trimetilbenceno; 1,2,4-triclorobenceno; 1,2- Dibromoetano; 1,2-cis- dicloroetano; 1,1- Dicloro-1-Propeno; 1,2- Diclorobenceno; 1,2-Dicloroetano; 1,2-dicloropropano; 1,2-trans- dicloroetano; 1,2,3-Tricloropropano; 1,3,5-trimetilbenceno; 1,3-Dicloropropano; 1,3-cis-dicloropropeno; Dibromometano; 1,3diclorobenceno; 1,3- trans-dicloropropeno; 1,4-diclorobenceno; 1-1-2tricloroetano; Benceno; Bromobenceno; Bromoclorometano; Bromodiclorometano; Bromoformo; sec- Butilbenceno; Clorobenceno; Clorodibromometano; Cloroformo; 2- Clorotolueno; 4- Clorotolueno; 1,2-dibromo-3-chloropropano; 2,2-Dicloropropano; Estireno; Etilbenceno; Hexachlorobutadiene; Isopropilbenceno; m,p- Xileno; Naftaleno; N- Butilbenceno; N- Propilbenceno; o-Xileno; p- Isopropiltolueno; Ter- butilbenceno; Tetracloroetano; Tetracloruro de carbono; Tolueno; 1,1,2 tricloroetano; 1,1-Dicloroetano; Cloruro de Vinilo. Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) DS N° 004-2017-MINAM, Trihalometanos, Xilenos	EPA Method 8260D Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)
Polycyclic Aromatic Hydrocarbons:	EPA Method 8270E		

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ENVIRONMENTAL – ORGANICS (cont'd.)	Natural Water, Drinking Water, Saline Water, Process Water and Wastes Water (Field collection + Lab Testing) (cont'd.)	Acenafteno; Acenaftileno; Antraceno; Benzo(a)antraceno; Benzo(a)pireno; Benzo(b)fluoranteno; Benzo(e)pireno; Benzo(g,h,i)perileno; Indeno(1,2,3-cd)pireno; Benzo(k)Fluoranteno; Criseno; Dibenzo(a,h)antraceno; Fenantreno; Fluoranteno; Fluoreno; Naftaleno; Pireno; Pentaclorofenol Polychlorinated Biphenyls: PCB No 101; PCB No 118; PCB No 138; PCB No 153; PCB No 180; PCB No 28; PCB No 52; PCB's SUM Residues Pesticides off Organochlorine Phosphate and Other: Alachlor; Aldrin; Ametrina; Atrazina; Benalaxil; Ciproconazol; Clodanifop PE (Propargil Ester) ; Clordano cis; Clordano trans; Clordecona; Clorpirifos etil; Clortal-dimetil; 4,4'- DDD; 2,4'-DDT; 4,4'-DDT; Diazinon; Diclorvos- triclорfon; Dicofol; Dieldrin; Diflufenican; Dimetoato; Endosulfan I; Endosulfan II; Endosulfan-Sulfato; Endrin; Endrin aldehido; Endrin cetona; EPTC; Etion; Etoprofos; Fenamifos; Flusilazol; Alfa-BHC; Beta-BHC; Delta-BHC; Heptachloro; Heptacloro- Epoxido; Hexaclorobenceno, Isodrin, Gamma-BHC(Lindano), Malation, Metalaxil, Metidation; Metoxicloro; Metribuzina, Miclobutanilo, Mirex, Molinate, Oxifluorfen, Paration-Etil, Paration-Metil, Pendimetalina, pentaclorobenceno, Piridaben, Pirimetanil, Prometrina, Propazina, Propizamida, Simazina, Simetrin, Terbutilazina; Terbutrina; Tetradifon; Trietazina; Trifluralin; Vinclozolina. DS N° 004-2017-MINAM, DDT (Sum) = 4,4'-DDD + 4,4'-DDE, Aldrin + Dieldrin; Heptacloro + Heptacloro Epoxido; Clordano; Endosulfan	Semi-volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) EPA Method 8270E Semi-volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (cont'd.)

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ENVIRONMENTAL – ORGANICS (cont'd.)	Natural Water, Drinking Water, Saline Water, Process Water and Wastes Water (Field collection + Lab Testing) (cont'd.)	Pesticide Residues: Aldicarb, Sulfona, Atrazina, Bromacilo, Carbendazima, Carbofuran, Clortoluron, Desetil-Atrazina, Desetil-Terbutilazina, Desmetil- Terbumeturon, Diuron, Isoproturon, Linuron, Metalaclor, Metamitron, Propanilo, Simazina, s-Metoalaclor, Tebuconazol, Terbumeturon, Terbutilazina.	PE-623 Pesticide Residues in Water by Chromatography (LC/MS-MS)
		Ortofenil Fenol (OPP), Acetacloro, Aldrin, Benalaxil, Benfluralina, Bifenilo, Bifentrina, Bupirimato, Ciproconazol, Clordano cis, Clordano trans, Clorfenapir, Cloropropilato, Clorpirifos, Clorpirifos Metil, Clorprofam, Clortal Dimetil, Cyhalotrin-L, DDD-pp + DDT- op, Diazinon, Diclobenilo, Dicofol , Dieldrin, Diflufenicán, Disulfotón, Endosulfan Beta, Etofumesato, Etoprofos, Fenarimol, Fenazaquina, Fenpropatrin, Fention, Fonofos, Isazofos, Hexazinona; Isofenfos, Isofenfos Metil, Kresoxim Metil, Metacrifós, Metalaxil, Metribuzina, Miclobutanil, Mirex, Molinato, Napropamida, Nuarimol, Ofurace, pp- DDE, Penconazol, Pendimetalina, Pentacloroanilina, Pentacloroanisol, Pentaclorobenceno, Permetrina, Pirifenox, Pirimetanil, Pirimicarb, Pirimifos Metil, Procimidona, Protiofós, Quinalphos, Quintoceno, Simazina, Tebuconazol, Tebufenpirad, Tecnaceno, Teflutrin, Terbutilazina, Terbutrin, Tetraconazol, Tetradifón, Tetrametrina, Tiometon, Tolclofos Metil, Transflutrin, Triadimenol, Trifluralina, Vinclozolina, 2,4,6, Trichlorophenol, 2,4- DDD, 2,4-DDE, 4,4 Dicclorobenzofenona, Ametrina, Buprofezin, Clorbenzilat, Clorfenson, Clormefos, Diclobutazol, Diclofention, Endrin, EPTC, Etrimfos, Fenclorfos, Fluazifop- Butil, Fluopicolide,	PE-674 Determination of Pesticide Residues by chromatography GC / MS-MS and LC / MS-MS

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ENVIRONMENTAL – ORGANICS (cont'd.)	Natural Water, Drinking Water, Saline Water, Process Water and Wastes Water (Field collection + Lab Testing) (cont'd.)	Fluopiram, Fluotrimizol, Folpet, Furalaxil, Heptacloro, Hexaconazol, Lindano, Paraoxon Etil, Propaclor, Tetrahidroftalamida (Captan), Clordano, Dieldrin (SUM), Abamectina, Acetamiprid, Aldicarb, Aldicarb Sulfona, Aldicarb Sulfoxido, Azoxistrobina, Bendiocarb, Bentiavalicarb, Boscalida, Bromuconazol, Butoxicarboxim, Cadusafos, Carbaril, Carbofuran, Ciazofamida, Cimoxanilo, Clofentezina, Clomazona, Clorantranilliprole, Clotianidin, Desmedifam, Diclormid, Dietofencarb, Dimetoato, Dimetomorf, Dodemorf, Epoxiconazol, Espinetoram, Espinosad, Espirodiclofeno, Espiromesifeno, Espirotetramat, Espiroxamina, Etiprol, Etofenprox, Etoxazol, Famoxadona, Fenamidona, Fenbuconazol, Fenhexamida, Fenmedifan, Fenpiroximato, Fenpropidin, Fenpropimorfo, Fensulfotion, Flonicamid, Fludioxonilo, Flufenacet, Flufenoxuron, Fluometuron, Fluquinconazol, Flusilazol, Flutolanil, Flutriafol, Forato Sulfona, Forato Sulfoxido, Forclorfenuron, Fostiazato, Furatiocarb, Hexitiazox, Imazalil, Imidacloprid, Indoxacarb, Isocarbofos, Isoproturón, Isoxabén, Lenacilo, Linurón, Mandipropamid, Mecarbam, Mepanipirim, Metaflumizona, Metamitrona, Metazacloro, Metiocarb, Metolacloro, Metolcarb, Metomilo, Metoxifenoxida, Metoxuron, Metrafenona, Monocrotofós, Monolinurón, Nitenpiram, Novalurón, Ometoato, Oxadiargilo, Oxadiazón, Oxamilo, Oxicarboxina, Pencicurón, Picoxistrobina, Piraclostrobina, Profam, Propamocarb, Propanil, Propaquizafop, Propiconazol, Propoxur, Proquinazid,	PE-674 Determination of Pesticide Residues by chromatography GC / MS- MS and LC / MS-MS (cont'd.)

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ENVIRONMENTAL – ORGANICS (cont'd.)	Natural Water, Drinking Water, Saline Water, Process Water and Wastes Water (Field collection + Lab Testing) (cont'd.)	Prosulfocarb, Quinoxifen, Quizalofop-ethyl, Rotenona, Sulfotep, Tiabendazol, Thiametoxam, Tiacloprid, Tiodicarb, Tridemorfo, Trifloxystrobin, Triflumizol, Triflumurón, Zoxamida, 2,4-D, Acefato, Acequinocyl, Azadiractina, Azametifos Azimsulfurón, Azinfos Etil, Azinfos Metil, Benomilo-Carbendazima, Bioaletrina, Bromoxinil, Butralina, Carbofuran-3-Hidroxi, Carboxim, Carfentrazona Etil, Cicloato, Ciflufenamida, Cihexatina, Clorfluazuron, Cloridazon, Cyantraniliprole, Demeton S Metil sulfona, Dialifos, Diclorvos, Diclofop, Diclofop Metil, Diclorprop, Dinocap, Dinotefuram, Diuron, DNOC, Emamectina Benzoato, Espirotetramat- Cis-ketohidroxi, Espirotetramate-Enol-Glucoside, Espirotetramate-Monohidroxi, Ethirimol, Fenobucarb, Fenpirazamina, Flazasulfuron, Flumioxazina, Formetanato, Fosmet, Fuberidazol, Haloxifop- Metil, Haloxyfop-2-Ethoxyetil, Haloxifop, Himexazol, Imazamox, Indaziflam, Ioxinil, MCPA, Metamidofos, Metiocarb sulfóxido, Nicosulfuron, Orizalin, Pentiopirad, Piraflufeno, Promecarb, Quinclorac, Rimsulfuron, Saflufenacil, Sulcotriona, Sulfoxaflor, Terbufos sulfona, Terbufos sulfoxido, TFNA, TFNG, Tiobencarb, Tiociclam, Tolilfluanida, Triclopir, Triclorfon, Triciclazol, Triforina, Aldicarb (SUM), Carbofuran(SUM), Dimetoato (SUM), Flonicamid (SUM), Haloxifop (SUM), Metomilo (SUM), Piraflufeno-etilo (SUM), Thiametoxam (SUM), Hexazinona	PE-674 Determination of Pesticide Residues by chromatography GC / MS-MS and LC / MS-MS (cont'd.)
		Petroleum Hydrocarbon emulsified or dissolved (C10-C28 and greater than C28)	PP-210 Total Petroleum Hydrocarbons Calculated In

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ENVIRONMENTAL – ORGANICS (cont'd.)	Natural Water, Drinking Water, Saline Water, Process Water and Wastes Water (Field collection + Lab Testing) (cont'd.)	Petroleum Hydrocarbon emulsified or dissolved mineral oil	Water and Soils. Reference EPA 8015.
		Phthalate esters: Bis (2- ethylhexyl) phthalate, Butyl benzyl phthalate, Di-n- butyl phthalate, Diethyl phthalate, Dimethyl phthalate, Di-n-octyl phthalate	PP-222 Determination of Phthalate Esters in water by Gas Chromatography with mass Detector Masses.
		Total Petroleum Hydrocarbons (Aromatic Fraction)	PP-224 PAHS, PCBs y RPS in Water and Soils by Gas Chromatography with mass Detector Masses.
		Oil and Grease	PP-226 Determination of Oil and Grease based on ASTM D7066 – 04.
		Chlorophyll A	SMEWW 10200 H.1,2 Chlorophyll
	Natural Water, Drinking Water, (Field collection + Lab Testing)	2,4-DB 2,4,5-T Fenoprop Mecoprop Piriproxifeno Clorotoluron Isoproturon MCPA Aldicarb Carbofuran	EPA Method 538 Rev.1.0:2009 Determination of Selected Organic Contaminants in Drinking Water by Direct Aqueous Injection-Liquid Chromatography/Tandem Mass Spectrometry (DAI-LC/MS/MS)
		Dichloroacetate Monochloroacetate Trichloroacetate	EPA Method 552.3 Rev01.2003 Determination of Haloacetic Acids and Dalapon in Drinking Water by Liquid-Liquid Microextraction, Derivatization, and Gas Chromatography With Electron Capture Detection
		Microcistin-LR	PE-661 Determination Of Microcystins In Waters By Lc Triple Quadrupole
		Chloral hydrate (trichloroacetaldehyde) Dibromo Acetonitrile Dichloro Acetonitrile	EPA METHOD 551.1 Determination of Chlorination Disinfection Byproducts, Chlorinated Solvents, and Halogenated Pesticides/Herbicides in

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
ENVIRONMENTAL – ORGANICS (cont'd.)	Natural Water, Drinking Water, (Field collection + Lab Testing) (cont'd.)		Drinking Water By Liquid-Liquid Extraction and Gas Chromatography With Electron-Capture Detection
	Soil, Sediments and Sludges (Field collection + Lab Testing)	Total Petroleum Hydrocarbons: C5-C10, C10-C28, C28-C40, C6-C10, C6-C40, C10-C40, C5-C40	EPA Method 8015C Total Petroleum Hydrocarbons Non-Halogenated Organics using GC-FID / Volatile organic compounds in various sample matrices using equilibrium headspace analysis / Microwave Extraction
		Total Petroleum Hydrocarbons Non-Halogenated Organics using GC-FID/ DS N° 011-2017-MINAM	
		Total Petroleum Hydrocarbons: >C10 – C28 Total Petroleum Hydrocarbons: >C28– C40 Total Petroleum Hydrocarbons: >C10 - C40	
Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	EPA Method 8260D Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)		
	1,1,1,2-tetracloroetano; 1,1,1-tricloroetano; 1,1,2,2-tetracloroetano; 1,1dicloroetano; 1,2,3-Triclorobenceno; 1,2,4-Trimetilbenceno; 1,2,4-triclorobenceno; 1,2-cis-dicloroetano; 1,2-Diclorobenceno; 1,2-Dicloroetano; 1,2-dicloropropano; 1,2-trans-dicloroetano; 1,3,5- trimetilbenceno; 1,3-cis-dicloropropeno; 1,3 diclorobenceno; 1,3- trans-dicloropropeno; 1,4-diclorobenceno; 1,1,2- tricloroetano; Benceno; Bromobenceno; Bromoclorometano; Bromodiclorometano; Bromoformo; Clorobenceno; Clorodibromometano; Cloroformo; 2- Clorotolueno; 1,2-dibromo-3-chloropropano; 1,2- Dibromoetano; Dibromometano; 1,1- Dicloro-1-		

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ENVIRONMENTAL – ORGANICS (cont'd.)	Soil, Sediments and Sludges (Field collection + Lab Testing) (cont'd.)	Propeno; 1,3- Dicloropropano; 2,2-Dicloropropano; Estireno; Etilbenceno; Hexaclorobutadieno; Isopropilbenceno; m,p- Xileno; Naftaleno; N- Butilbenceno; N- Propilbenceno; o-Xileno; p- Isopropiltolueno; Ter- butilbenceno; Tetracloroetano; Tetracloruro de carbono; Tolueno; 1,1,2 Tricloroetano, 1,2-Dietilbenceno; 1,2,3,4 - Tetraclorobenceno, 1,2,3,5 -Tetrametilbenceno; 1,2,4,5 - Tetrametilbenceno; 1,2,4,5- Tetraclorbenceno; metil-t-butyl-eter; 1,1,2- Tricloroetano; 1,2,3- Tricloropropano	EPA Method 8260D Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (cont'd.)
		Volatile Organic Compounds: DS N° 011-2017-MINAM o- Xileno, m- Xileno, p- Xileno, Xilenos	
		Polycyclic Aromatic Hydrocarbons: Acenafteno, Acenaftileno, Antraceno, Benzo(a)antraceno, Benzo(a)pireno, Benzo(b)fluoranteno, Benzo(e)pireno, Benzo(g,h,i)perileno, Benzo(k)fluoranteno, Criseno, Dibenzo(a,h)antraceno, Indeno(1,2,3-cd)pireno; Fenantreno, Fluoranteno, Fluoreno, Naftaleno, Pireno.	EPA Method 8270E Semi-volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)
		Residues Pesticides off Organochlorine Phosphate and Other: Alachlor, Aldrin, Ametrina, Atrazina, Benalaxil, Cipermetrina, Ciproconazol, Clodanifop PE (Propargil Ester), Clordano cis, Clordano-trans, Clordecona, Clorfenvinfos, Clorpirifos-Etil, Clortal-Dimetil, 4,4'-DDD, 4,4'-DDE, 2,4'-DDT, 4,4'-DDT, Diazinon, Diclorvos- Triclorfon, Dicofol, Dieldrin, Diflufenican, Dimetoato, Endosulfan I, Endosulfan II, Endosulfan-Sulfato, Endrin, Endrin Aldehido, Endrin Cetona, EPTC,	

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ENVIRONMENTAL – ORGANICS (cont'd.)	Soil, Sediments and Sludges (Field collection + Lab Testing) (cont'd.)	Etion, Etoprofos, Fenamifos, Flusilazol, Alfa-BHC, Beta-BHC, Delta-BHC, Heptachloro, Heptachloro-Epoxido, Hexaclorobenceno, Isodrin, Lindano (HCH-gamma), Metalacloro, Metalaxil, Metidation, Metoxicloro, Metribuzina, Miclobutanilo, Mirex, Molinate, Oxifluorfen, Paration-Etil, Paration-Metil, Pendimetalina, Pentaclorobenceno, Pirimetanil, Prometrina, Propazina, Propizamida, Simazina, Simetrin, Terbutilazina, Terbutrina, Tetradifon, Trietazina, Trifluralin, Vinclozolina. DDT (Sum) = 4,4'-DDT + 4,4'-DDE + 4,4'-DDD, Heptachloro y Heptachloro epóxido (Sum) = Heptachloro + Heptachloro epóxido	EPA Method 8270E Semi-volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (cont'd.)
		Oil and Grease	EPA Method 9071B Oil and grease or hem- N-hexane extractable material (HEM).
		Total Organic Matter	PEC-012 Determination of Total Organic Matter.
		Aliphatic and Aromatic Hydrocarbons	TNRCC Method 1005, TNRCC Method 1006 Total Petroleum Hydrocarbons / Characterization of Nc6 to Nc35 Petroleum Hydrocarbons in Environmental Samples.
	Soil, Sediments (Field collection + Lab Testing) Soil, Sediments (Field collection + Lab Testing) (cont'd.)	Polychlorinated Biphenyls: PCB No 101, PCB No 118, PCB No 138, PCB No 153, PCB No 180, PCB No 28, PCB No 52, PCB's SUM Ortofenil fenol(OPP), Acetacloro, Carination, Alacloro, Aldrin, Atrazina, Benalaxil, Benfluralina, Bifenazato, Bifenilo, Bifentrina, Bitertanol, BromofosMetil, Bromopropilato, Bupirimato, Carbofenotion, Ciflutrin, Cipermetrina, Ciproconazol,	EPA Method 8270E Semi-volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS). PE-674 Determination of Pesticide Residues by chromatography GC / MS-MS and LC / MS-MS

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ENVIRONMENTAL – ORGANICS (cont'd.)	Soil, Sediments (Field collection + Lab Testing) (cont'd.)	Ciprodinil, Clordano cis, Clordano trans, Clorfenapir, Clorfenvinfos, Cloropropilato, Clorpirifos, Clorpirifos Metil, Clorprofam, Clortal Dimetil, Cyhalotrin-L, DDD- pp +DDT-op, Diazinon, Diclobenilo, Diclorán, Dicofol, Dieldrin, Difenilamina, Difenoconazol, Diflufenicán, Diniconazol, Disulfotón, Disulfotónsulfona, Disulfotón sulfoxido, Endosulfan Alfa, Endosulfan Beta, Endosulfan Sulfato, Etion, Etofumesato, Etoprofos, Fenarimol, Fenazaquina, Fenitrotión, Fenpropatrin, Fention, Fentoato, Fenvalerato+ Esfenvalerato, Flucitrinato, Iprovalicarb, Isazofos, Isofenfos, Isofenfos Metil, Kresoxim Metil, Malation, Mepronilo, Metacrifós, Metalaxil, Metoxicloro, Metribuzina, Miclobutanil, Mirex, Molinato, Napropamida, Nuarimol, Ofurace, Oxadixilo, Oxifluorfen; p.p-DDE, p.p-DDT, Paration Etil, Penconazol, Pendimetalina, Pentacloroanilina, Pentacloroanisol, Pentaclorobenceno, Permetrina, Piridabén, Pirifeno, Pirimetanil, Pirimicarb, Pirimifos Etil, Pirimifos Metil, Piriproxifén, Procimidona, Profluralin, Propargita, Propizamida, Protiofós, Quinalfós, Quintoceno, Simazina, Tebuconazol, Tebufenpirad, Tecnaceno, Teflutrin, Terbacil, Terbutilazina, Terbutrin, Tetraconazol, Tetradifón, Tetrametrina, Tiometon, Tolclofos Metil, Transflutrin, Triadimenol, Trifluralina, Vinclozolina, 2,4-DDD; 2,4-DDE, 4.4-Diclorobenzofenona, Ametrina, Buprofezin, Clorbenzilat, Clorfenson, Clormefos, Clorotalonil, Clortoluron, Clozolinato, DEET, Diclobutazol, Diclofention, Endrin, Etrimfos, Fenclorfos, Fluazifop-Butil, Fluopicolide, Fluopiram, Fluotrimizol, Folpet, Formotion, Fosfamidon, Furalaxil, Heptacloro, Hexaconazol, Lindano, Prometrina, Propaclor,	PE-674 Determination of Pesticide Residues by chromatography GC / MS-MS and LC / MS-MS (cont'd.)

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ENVIRONMENTAL – ORGANICS (cont'd.)	Soil, Sediments (Field collection + Lab Testing) (cont'd.)	Terbumeton, Triadimefon, Clordano, DDT (SUM), Dieldrin (SUM), Disulfutón (SUM), Endosulfan (SUM), Triadimefon y Triadimenol. Abamectina, Acetamiprid, Aldicarb, Aldicarb Sulfona, Aldicarb Sulfoxido, Azoxistrobina, Bendiocarb, Bentiavalicarb, Boscalida, Bromuconazol, Butoxicarboxim, Cadusafos, Carbaril, Carbofuran, Ciazofamida, Cimoxanilo, Clofentezina, Clomazona, Clorantraniliprole, Clotianidin, Oxidemetón- metilo, Desmedifam, Diclormid, Dietofencarb, Diflubenzuron, Dimetoato, Dimetomorf, Dodemorfo, Epoxiconazol, Espinetoram, Espinosad, Espirodiclofeno, Espiromesifeno, Espirotetramat, Espiroxamina, Etiofencarb, Etiprol, Etofenprox, toxazol, Famoxadona, Fenamidona, Fenamifos, Fenbuconazol, Fenhexamida, Fenmedifan, Fenpiroximato, Fenpropidin, Fenpropimorfo, Fensulfotión, Flonicamid, Fludioxonilo, Flufenacet, Flufenoxuron, Fluometuron, Fluquinconazol, Flusilazol, Flutolanil, Flutriafol, Forato, Forato Sulfona, Forato Sulfoxido, Forclorfenuron, Fostiazato, Furatiocarb, Hexaflumuron, Hexitiazox, Imazalil, Imidacloprid, Indoxacarb, Isocarbofos, Isoproturón, Isoxabén, Lenacilo, Linurón, Mandipropamid, Mecarbam, Mepanipirim, Metaflumizona, Metamitrona, Metazacloro, Metil Tiofanato, Metiocarb, Metolacloro, Metolcarb, Metoxifenoxida, Metoxuron, Metrafenona, Monocrotófós, Monolinurón, Nitenpiram, Novalurón, Ometoato, Oxadiargilo, Oxadiazón, Oxamilo, Oxicarboxina, Pencicurón, Picoxistrobina, Piraclostrobina, Profam, Propanil, Propaquizafop, Propiconazol, Propoxur, Proquinazid, Prosulfocarb,	PE-674 Determination of Pesticide Residues by chromatography GC / MS-MS and LC / MS-MS (cont'd.)

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ENVIRONMENTAL – ORGANICS (cont'd.)	Soil, Sediments (Field collection + Lab Testing) (cont'd.)	Quinoxifen, Quizalofop- Ethyl, Rotenona, Tebufenocida, Teflubenzurón, Terbufos, Tiabendazol, Thiametoxam, Tiaclopid, Tiodicarb, Tridemorfo, Trifloxystrobin, Triflumizol, Triflumurón, Zoxamida, Acefato, Acequinocyl, Azadiractina, Azametifos, Azimsulfurón, Azinfos Etil, Azinfos Metil, Bentazona, Metil, Bioaletrina, Bromacilo, Butacloro, Butralina, Carbofuran-3-Hidroxi, Carboxim, Carfentrazona Etil, Cicloato, Cicloxidim, Ciflufenamida, Cihexatina, Clorfluazuron, Cloridazon, Cyantraniliprole, Demeton S Metil Sulfona, Dialifos, Diclorvos, Diclofop Metil, Dinocap, Dinotefuram, Diuron, Emamectina Benzoato, Espirotetramat-Cis-Ketohidroxi, Espirotetramate-Enol-Glucoside, Espirotetramate-Monohidroxi, Etiofencarb sulfÓxido, Ethirimol, Fenbutatín Oxido, Fenobucarb, Fenpirazamina, Flubendiamida, Flumioxazina, Fosmet, Fuberidazol, Haloxifop Metil, Haloxyfop- 2-Ethoxyetil, Indaziflam, Metamidofos, Metiocarb sulfona, Metiocarb sulfóxido, Orizalin, Pentiopirad, Piraflufeno-etilo, Promecarb, Rimsulfuron, Saflufenacil, Sulfoxaflor, Terbufos-Oxon-Sulfone, Terbufos sulfona, TFNG, Tiobencarb, Tiociclam, Tolilfluanida, Triclopir, Triclorfon, Triciclazol, Aldicarb (SUM), Dimetoato (SUM), Metiocarb (SUM), Forato (SUM), Oxidemetón- metilo	PE-674 Determination of Pesticide Residues by chromatography GC / MS-MS and LC / MS-MS (cont'd.)
	Air (Field collection + Lab Testing)	HCT (Hexano), VOCs (Benceno)	ASTM D3687 Analysis of Organic Compound Vapors Collected by the Activated Charcoal Tube Adsorption Method.
		Hydrocarburos No Metanos HCNM	PP-223 Determination of non-methane hydrocarbons in the Atmosphere

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
	Fish & Hydrobiological (Field collection + Lab Testing)	Total Petroleum Hydrocarbons: (C10-C28, C28-C40)	PP-217 Total petroleum hydrocarbons in fish based on EPA 8015C.
		PAHs: Acenafteno, Acenaftileno, Antraceno, Benzo(a)antraceno, Benzo(a)pireno, Benzo(b)fluoranteno, Benzo(e)pireno, Benzo(k)Fluoranteno, Criseno, Fenantreno, Fluoranteno, Fluoreno, Pireno.	PP-219 Determination of Polycyclic Aromatic Hydrocarbons in Fish based on EPA 8270E
ENVIRONMENTAL – ORGANOLEPTIC	Drinking Waters, Bottled Waters (Field collection + Lab Testing)	Odor Flavor	SMEWW 2170 B Flavor Profile Analysis
ENVIRONMENTAL – INORGANICS	Natural Water, Drinking Water, Saline Water, Process Water and Wastes Water (Field collection + Lab Testing)	Cyanide WAD	ASTM D4374–6 Standard Test Methods for Cyanides in Water— Automated Methods for Total Cyanide, Weak Acid Dissociable Cyanide, and Thiocyanate.
		Dissolved – Ag, Al, As, Ba, Be, Cd, Co, Cr, Cu, Hg, Mn, Mo, Ni, Pb, Sb, Se, Th, Tl, U, V, Zn	EPA Method 200.8 Determination of Trace Elements in Waters and Wastes by Inductively Coupled Plasma- Mass Spectrometry (ICP-MS)
		Add Elements. B, Bi, Ca, Ce, Fe, K, Li, Mg, Na, P, Sn, Sr, Ti, W, S, Si (Validated)	
		Total – Ag, Al, As, Ba, Be, Cd, Co, Cr, Cu, Hg, Mn, Mo, Ni, Pb, Sb, Se, Th, Tl, U, V, Zn. Add Elements: B, Bi, Ca, Ce, Fe, K, Li, Mg, Na, P, Sn, Sr, Ti, W, S, Si (Validated). Saline Water: (Validated) Total and Dissolved – Ag, Al, As, Ba, Be, Cd, Co, Cr, Cu, Hg, Mn, Mo, Ni, Pb, Sb, Se, Th, Tl, U, V, Zn, B, Bi, Ca, Ce, Fe, K, Li, Mg, Na, P, Sn, Sr, Ti, W, S, Si.	
		Bromate, Chlorite and Chlorate	EPA Method 300.0

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ENVIRONMENTAL – INORGANICS (cont'd.)	Natural Water, Drinking Water, Saline Water, Process Water and Wastes Water (Field collection + Lab Testing) (cont'd.)		Determination of Inorganic Anions by Ion chromatography
		Total Nitrogen (N-NO ₃ + N-NO ₂ + N Kjeldahl)	PE-335 Calculated Total Nitrogen in Water.
		Bromides; Fluorides; chlorides; Nitrites (as NO ₂ or NO ₂ -N); Nitrates (as NO ₃ or NO ₃ -N); Phosphates (PO ₄ or PO ₄ -P); Sulfates	PE-2090 Determination of inorganic anions by ion chromatography
		Free Cyanide and Total Cyanide	PP-220 Total Cyanides in Water by a segmented flow autoanalyzer
		Silicate	PP-228 Determination of Silicates Calculated in Waters, based on SM APHA-AWWA- WEF. 4500 -SiO ₂ D
		N-NO ₃ + N-NO ₂ (calculate)	PP-232 Sum of Nitrates + Calculated Nitrites in Waters / DS N° 004-2017-MINAM.
		Color	SMEWW 2120 C Color.Spectrophotometric-Single- Wavelength method (proposed).
		Acidity	SMEWW 2310 B Acidity Titration Method.
		Alkalinity, Bicarbonate, Carbonate	SMEWW 2320 B Alkalinity. Titration Method
		Hardness	SMEWW 2340 C Hardness, EDTA Titrimetric Method.
		Total Solids	SMEWW 2540 B Solids. Total Solids dried at 103 a 105 °C.
		Total Dissolved Solids	SMEWW 2540 C Solids: Total Dissolved Solids dried at 180 °C.
		Settleable Solids	SMEWW 2540 F Solids.Settleable Solids
		Dissolved Hexavalent Chromium (Cr VI)	SMEWW 3500-Cr B Chromium. Colorimetric Method.
Chloride	SMEWW 4500-Cl- B		

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ENVIRONMENTAL – INORGANICS (cont'd.)	Natural Water, Drinking Water, Saline Water, Process Water and Wastes Water (Field collection + Lab Testing) (cont'd.)		Chloride. Argentometric Method
		Total Cyanide	SMEWW 4500-CN- C, F Cyanide. Total Cyanide After Distillation / Cyanide-Ion Selective Electrode Method.
		Cyanide WAD	SMEWW4500 - CN- F, I Cyanide. Cyanide-Ion Selective Electrode Method / Weak Acid Dissociable Cyanide
		Free Cyanide	SMEWW4500-CN- J, E Cyanide. Cyanogen Chloride / Colorimetric Method
		Fluoride	SMEWW4500 - F- B, C Fluoride. Preliminary. Distillation Step. Ion-Selective Electrode Method
		pH	SMEWW 4500 H ⁺ B. pH Value. Electrometric Method.
		Nitrogen Organic Kjeldahl	SMEWW 4500-Norg C Nitrogen (Organic). Semi Micro- Kjeldahl Method.
		Ammonia Ammonia Nitrogen	SMEWW 4500-NH ₃ D Ammonia-Selective Electrode method.
		Nitrite (as N-NO ₂ or NO ₂)	SMEWW 4500 NO ₂ -B Nitrogen (Nitrite) Colorimetric Method
		Nitrate (as N-NO ₃ or NO ₃)	SMEWW 4500-NO ₃ - B Nitrogen (Nitrate). Ultraviolet Spectrophotometric Screening Method.
		Nitrate (as N-NO ₃ or NO ₃)	SMEWW 4500-NO ₃ - D Nitrogen (Nitrate). Nitrate Electrode Method.
		Total Phosphorus	SMEWW 4500 P-B, E Phosphorus. Sample Preparation. Ascorbic Acid Method
Phosphates. PO ₄ -P / PO ₄	SMEWW 4500-P E Phosphorus. Ascorbic Acid Method.		

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ENVIRONMENTAL – INORGANICS (cont'd.)	Natural Water, Drinking Water, Saline Water, Process Water and Wastes Water (Field collection + Lab Testing) (cont'd.)	Sulfide	SMEWW 4500-S ²⁻ D Sulfide. Methylene Blue Method.
		Hydrogen Sulfide	SMEWW 4500-S ²⁻ G, H Sulfide. Ion-Selective Electrode Method. Calculation of Un- Ionized.
		Silica	SMEWW 4500-SiO ₂ D Silica. Heteropoly Blue Method.
		Sulfate	SMEWW 4500-SO ₄ ²⁻ E Sulfate. Turbidimetric Methods.
		Biochemical Oxygen Demand	SMEWW 5210 B Biochemical Oxygen Demand (BOD). 5- Day BOD Test.
		Chemical Oxygen Demand	SMEWW 5220 D Chemical Oxygen Demand (COD). Closet reflux, Colorimetric Method.
		Phenols	SMEW 5530 B, C Phenols. Cleanup Procedure. Chloroform Extraction Method.
		SAAM	SMEWW 5540 C Surfactants. Anionic Surfactants as MBAS.
	Soil and Sediments (Field collection + Lab Testing)	Elements: Ag, Al, As, Ba, Be, Cd, Co, Cr, Cu, Hg, Mn, Mo, Ni, Pb, Sb, Se, Th, Tl, U, V, Zn. Add Elements: B, Ca, Ce, Fe, K, Li, Mg, Na, P, Sn, Sr, Ti, W -(Validated).	EPA Method 200.8 Determination of Trace Elements in Waters and Wastes by Inductively Coupled Plasma- Mass Spectrometry (ICP-MS).
		Cyanide Free	EPA Method 9013 A / SM 4500- CN, F Cyanide Extraction Procedure for Solids and Oils / Cyanide-Ion Selective Electrode Method.
		Moisture Content	PE-980 Moisture Determination.
		pH (1:1)	PEC-001 Determination of pH
		Conductivity (1:1)	PEC-002

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ENVIRONMENTAL – INORGANICS (cont'd.)			Determination of Electrical Conductivity.	
	Soil, Sediments and Sludges (Field collection + Lab Testing)	Total: Ag, Al, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Tl, V, Zn. Add Elements: As, B, Hg, Li, P, Se, SiO ₂ , Sn, Sr, Ti (validated)	EPA 6010C / EPA 3050B Inductively Coupled Plasma-Atomic Emission Spectrometry/Acid Digestion of Sediments, Sludges, and Soils.	
		Add Elements: Al, Ag, B, Ba, Bi, Ca, Ce, Cu, Hg, Li, Sb, Si, Sn, Na, Sr, K, Mg, Mn, Mo, Ni, P, Ti, Th, U, V, W, Zn (Validated). Total: As, Be, Cd, Co, Cr, Fe, Pb, Se, Tl	EPA 6020B / EPA 3050B Inductively Coupled Plasma-Mass Spectrometry/ Acid Digestion of Sediments, Sludges, and Soils.	
		Total Cyanide	EPA 9013 A / PP-220 Cyanide extraction Procedure for Solids and Oils / Free and Total Cyanides in Waters by a Segmented Flow Analyzer.	
		Granulometric	PE-4039 Granulometric Analysis	
		Chromium VI	PP-205 Determination of Chrome Hexavalent in soils, sludge and sediments. Digestion based on DIN EN 15192.	
	Soil and Sludges (Field collection + Lab Testing)	Total Solids	Protocol of Methods of Analysis for Soil and Muds 2. (2007) Water and Total Solids.	
		Volatile Solids	Protocol of Methods of Analysis for Soil and Muds 3. (2007) Water and Total Solids.	
	ENVIRONMENTAL - INORGANICS + SAMPLING	Natural Water, Drinking Water, Saline Water, Process Water and Wastes Water (Field collection + Lab Testing)	Oxygen Dissolved 'in situ'	EPA 360.1 Oxygen, Dissolved (Membrane Electrode)
			"In Situ" Free Residual Chlorine, "In Situ" Total Chlorine	PPI-206 Chlorine Determination: Free Residual, Total Based on SMEWW 4500 Cl G.
Conductivity 'in Situ'			SMEWW 2510 B Conductivity Laboratory Method.	

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ENVIRONMENTAL - INORGANICS + SAMPLING (cont'd.)		Temperature 'in Situ'	SMEWW 2550 B Temperature. Laboratory and Field Methods.
		pH 'in Situ'	SMEWW 4500 H ⁺ B pH Value. Electrometric Method.
	Air (Field collection + Lab Testing)	NO ₂ (gaseous)	ASTM D1607 – 91 (2011) Standard Test Method for Nitrogen Dioxide Content of the Atmosphere (Griess-Saltzman Reaction).
		NOX (Nitrogen oxides)	ASTM D3608 Nitrogen Oxides (Combined) content in the Atmosphere by the Griess-Saltzman Reaction (Validated)
		SO ₂ (gaseous)	EPA 40 CFR - Chapter I - Title 40 - Appendix A-2 to Part 50. Reference Method for the Determination of Sulfur Dioxide in the Atmosphere (Pararosaniline Method).
		Metals: Al, As, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Se, Si, Sn, Sr, Ti, Tl, U, V, Zn	EPA - Compendium Method IO - 3.4 Determination of Metals in Ambient Particulate Matter Using Inductively Coupled Plasma Spectroscopy (ICP-OES).
		PM10 High Volume	NTP 900.030 Air quality. Reference Method for the Determination of Respirable Particulate Matter as PM10 in the Atmosphere.
		O ₃ (gaseous)	PP-201 Determination of Ozone (O ₃) in Atmosphere.
		CO (gaseous)	PP-202 Carbon Monoxide (CO) in Atmosphere.
		H ₂ S (gaseous)	PP-203 Determination of Hydrogen Sulfide (H ₂ S) In Atmosphere.
	PM 2.5 High Volume	PP-209	

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ENVIRONMENTAL - INORGANICS + SAMPLING (cont'd.)	Air (Field collection + Lab Testing) (cont'd.)		Determination of Breathable Particulate Matter as PM2.5 in the Atmosphere.
		Total Hg (gaseous)	PPI-512/ PP-233 Sampling of Total Gaseous Mercury in Atmosphere Based on Mercury.Method: 6009, Issue 2 /Total Gaseous Mercury in Atmosphere Based on Mercury.Method: 6009, Issue 2.
	Air / filter (Only Lab Testing)	Determination of Weight in PM10 low Volume Filter	NTP 900.030 Air quality. Reference Method for the Determination of Respirable Particulate Matter as PM10 in the Atmosphere.
		Determination of Weight in PM2.5 low Volume Filter	NTP 900.069 Air quality. Reference Method for the determination of fine particulate matter as PM2.5 in the atmosphere.
		Metals in PM10 Filter Low Volume: Al, As, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Se, Si, Sn, Sr, Ti, Tl, U, V, Zn	EPA- Compendium Method IO - 3.4 Determination of Metals in Ambient Particulate Matter Using Inductively Coupled Plasma Spectroscopy (ICP-OES). (Validated)
		Metals in PM2.5 Filter Low Volume: Al, As, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Se, Si, Sn, Sr, Ti, Tl, U, V, Zn	EPA- Compendium Method IO - 3.4 Determination of Metals in Ambient Particulate Matter Using Inductively Coupled Plasma Spectroscopy (ICP- OES). (Validated)
	Stationary Emission Source	Particulate Matter	EPA Method 5 Determination of Particulate Matter Emissions from Stationary Sources. (Only laboratory process).
		Sulfur Dioxide (SO ₂)	EPA Method 6 Determination of Sulfur Dioxide Emissions from Stationary Sources

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ENVIRONMENTAL - INORGANICS + SAMPLING (cont'd.)	Stationary Emission Source (cont'd.)		(only laboratory process).
		Determination of total reduced sulfur (TRS)	EPA Method 16A Stationary emission source: Determination of total reduced sulfur (TRS) emissions from stationary sources - impinger technique (only laboratory process).
		Ag, As, Be, Cd, Co, Cr, Cu, Mn, Ni, P, Pb, Sb, Se, Tl, Zn	Metals in Fixed Sources by ICP-OES Spectroscopy based on EPA Method 29 (only laboratory process)
		O ₂ , CO, CO ₂ , SO ₂ , NO, NO ₂ and NOX	Determination of O ₂ , CO, CO ₂ , SO ₂ , NO and NO ₂ concentration by an automatic analyzer based on EPA CTM 022/ EPA CTM 030. (Field collection + Lab Testing)
		Metals Vanadium (V)	EPA-40 CFR, Appendix A-8 to Part 60. Method 29. Determination of Metals Emissions from Stationary Sources. 2017 (Validated)
		Metals: Ag, As, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, P, Pb, Sb, Se, Tl, Zn.	EPA-40 CFR, Appendix A-8 to Part 60. Method 29. Determination of Metals Emissions from Stationary Sources. 2017
ENVIRONMENTAL - SAMPLING	Vibrations	vibrations	DIN 4150 Vibrations in Buildings - Part 3: Effects on structures, English translation of DIN 4150-3:2016-12
ENVIRONMENTAL - MICROBIOLOGY	Natural Water, Drinking Water, Saline Water, Process Water and Wastes Water (Field collection + Lab Testing)	Fecal Coliform or Fecal Thermotolerant	PE-403 Fecal (Thermotolerant) Coliform Count in Waters (Membrane Filtration).
		Giardia, Helminth eggs parasites, Protozoan Cyst Parasites	PP-301 Determination of Helminthes And Protozoan Parasites Based on Modified Bailenger's Method.
		Heterotrophic bacteria	SMEWW 9215 A,B 35°C/48h, Agar plate count.

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ENVIRONMENTAL – MICROBIOLOGY (cont'd.)	Natural Water, Drinking Water, Saline Water, Process Water and Wastes Water (Field collection + Lab Testing) (cont'd.)		Heterotrophic Plate Count. Pour Plate Count Method.
		Total Coliform	SMEWW 9221 B. 2,3,4,5a (1,3,4), 5b Multiple -Tube Fermentation Technique for Members of the Coliform Group. Standard Total Coliform Fermentation Technique.
		Thermotolerant (Fecal) Coliform	SMEWW 9221 B.2,3, E. 1 Multiple -Tube Fermentation Technique for Members of the Coliform Group. Thermotolerant (Fecal) Coliform Procedure.
		Escherichia Coli	SMEWW 9221 B.2,3, F. 1 Multiple -Tube Fermentation Technique for Members of the Coliform Group. Escherichia Coli Procedure Using Fluorogenic Substrate.
		Fecal Enterococcus	SMEWW 9230 B Fecal Enterococcus / Streptococcus Groups. Multiple Tube Technique.
		<i>Salmonella</i> spp	SMEWW 9260 B,2,d, 4.a,c,6.c,e,7,8 Detection of Pathogenic Bacteria. Salmonella
		<i>Vibrio cholerae</i>	SMEWW 9260 H,2,d,3.d.1, 6.b,7 Detection of Pathogenic Bacteria. Vibrio. (Excepto uso antisuero O139).
		Zooplankton Counting	SMEWW-APHA-AWWA-WEF Part 10200 C.1,G Plankton. Zooplankton Counting Techniques.
		Free Living Organisms (OVL) Zooplankton Counting + Phytoplankton Counting	SMEWW -APHA-AWWA-WEF Part 10200 C.1,G SMEWW -APHA-AWWA-WEF Part 10200 C.1,F2.c.1 Free Living Organisms (OVL)
Phytoplankton Counting	SMEWW-APHA-AWWA-		

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ENVIRONMENTAL – MICROBIOLOGY (cont'd.)	Natural Water, Drinking Water, Saline Water, Process Water and Wastes Water (Field collection + Lab Testing) (cont'd.)		WEF Part 10200 C.1 F.2. (a,c1) Plankton. Phytoplankton Counting Techniques.
		Periphyton Counting	SMEWW-APHA-AWWA-WEF Part 10300 C.1,2 Periphyton. Sample Analysis.
		Periphyton Identification of Aquatic Organisms	SMEWW-APHA- AWWA-WEF Part 10300 C.1, 2. / Part 10900 Periphyton. Sample Analysis/ Identification of aquatic organisms.
		Zooplankton Identification of Aquatic Organisms	SMEWW-APHA-AWWA-WEF Part 10020 C.1, G / Part 10900
		Phytoplankton Identification of Aquatic Organisms	SMEWW-APHA-AWWA-WEF Part 10020 C.1, F.2.c.1 / Part 10900
		Escherichia coli and Coliform Bacteria	UNE-EN ISO 9308-1 Water quality - Enumeration of Escherichia coli and coliform bacteria - Part 1: Membrane filtration method for waters with low bacterial background flora.
	Natural Water, Saline Water, (Field collection + Lab Testing)	Nekton	SMEWW 10600 D.1 Fishes. Analysis of Collections.
	Natural Waters, Drinking Waters (Field collection + Lab Testing)	Total coliform and <i>Escherichia coli</i> (Colilert 18- NMP/100mL)	ISO 9308-2. Water quality - Enumeration of Escherichia coli and coliform bacteria -- Part 2: Most probable number method.
		Fecal (Thermotolerant) coliform (Colilert 18- NMP/100mL)	PP-317 Determination of Fecal Coliforms (Colilert-18) Based on SMEWW 9223 B.
		Detection of Virus; Somatic Coliphage Assay	SMEWW 9224 B Detection of Virus; Somatic Coliphage Assay
Natural Water and Wastes Water	Detection of Salmonella spp.	UNE-EN-ISO 19250.8.1, 8.2.2, 8.3, 8.4, 8.5, 9.	

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE	
ENVIRONMENTAL – MICROBIOLOGY (cont'd.)	(Field collection + Lab Testing)		Water quality - Detection of Salmonella spp.	
	Sludge	Salmonella spp	NOM-004-SEMARNAT-2002 Method for the quantification of Salmonella spp., in sludge and biosolids	
	Sludge and Biosolids	Viable Helminth Eggs	PP-329 Determination of Viable Helminth Eggs	
	Swabbing of Living and Inert Surfaces (Field collection + Lab Testing)	Total coliform and Escherichia coli Count	ISO 18593 punto 9.2 (1, 2,4)/RM N°461-MINSA 8.2, 8.4/AOAC 991.14	Total coliform and Escherichia coli Count
		Enumeration of Yeast and Mold	ISO 18593 punto 9.2 (1, 2,4)/RM N°461-MINSA 8.2, 8.4/FDA BAM On line Chap 18. B.1	Enumeration of Yeast and Mold
		Detection of Salmonella spp	ISO 18593 punto 9.2 (1, 2,4)/RM N°461-MINSA 8.2, 8.4/ISO 6579-1:2017	Detection of Salmonella spp
		Coagulase Positive: Staphylococci Count (<i>Staphylococcus aureus</i> and others)	ISO 18593 punto 9.2 (1, 2,4)/RM N°461-MINSA 8.2, 8.4/ISO 6888-1:2021	Coagulase Positive: Staphylococci Count (<i>Staphylococcus aureus</i> and others)
		Escherichia coli Count	ISO 18593 punto 9.2 (1, 2,4)/RM N°461-MINSA 8.2, 8.4/ISO 16649-2:2001	Escherichia coli Count
		Colony Count at 30°C (UFC/superficies)	ISO 18593 punto 9.2 (1, 2,4)/RM N°461-MINSA 8.2, 8.4/UNE-EN ISO 4833-1:2014, Colony Count at 30°C (UFC/superficies)	
Detection of Listeria Monocytogenes		ISO 18593 punto 9.2 (1, 2,4)/RM N°461-MINSA 8.2, 8.4/UNE-EN ISO 11290-		

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			1:2018, Detection of Listeria Monocytogenes
	Sediments (marine, epicontinental and estuarine) (Field collection + Lab Testing)	Benthic Macroinvertebrates Counting	SMEWW 10500 C1.2 Benthic Macroinvertebrates. Sampling Processing and Analysis.
FOOD-ORGANIC-PESTICIDES	Fruits, Vegetables, Nuts, Cereal & Dried Fruit, Oils/Fatty Matrices	2,4 D ,Ortofenil Fenol (OPP), Acetacolor, Acrinatrina, Alacolor, Aldrin (SP), Atrazina, Benalaxil (SP), Benfluralina, Bifenazato (SP), Bifenilo, Bifentrina, Bitertanol, Bromofos Metil, Bromopropilato, Bupirimato, Carbofenotion, Ciflutrin, Cipermetrina, Ciproconazol, Ciprodinil, Clordano cis, Clordano trans, Clorfenapir, Clorfenvinfós, Cloropropilato, Clorpirifos, Clorpirifos Metil, Clorprofam, Clortal Dimetil, Cyhalotrin-L, DDD-pp + DDT-op, Diazinon, Diclobenilo, Diclorán, Dicofol, Dieldrin (SP), Difenilamina, Difenoconazol, Diflufenicán, Diniconazol, Disulfotón (SP), Disulfotónsulfona, Disulfotón sulfoxido, Endosulfan Alfa, Endosulfan Beta, Endosulfan Sulfato, Etion, Etofumesato (SP), Etoprofos, Fenarimol, Fenazaquina, Fenitrotión, Fenpropatrin, Fention (SP), Fentoato, Fenvalerato + Esfenvalerato, Flucitricinato, Fonofos, Fosalón, Hexaclorobenceno, Iprodiona, Iprovalicarb, Isazofos, Isofenfos, Isofenfos Metil, Kresoxim Metil, Malation (SP), Mepronilo, Metacrifós, Metalaxil (SP), Metidación, Metoxicloro, Metribuzina, Mevinfos, Miclobutanil, Mirex, Molinato, Napropamida, Nuarimol, Ofurace, Oxadixilo, Oxifluorfen, pp-DDE, pp- DDT, Paration Etil, Paration Metil (SP), Penconazol, Pendimetalina, Pentacloroanilina, Pentacloroanisol, Pentaclorobenceno, Permetrina, Pirazofos, Piridabén, Piridafention, Pirifenox, Pirimetanil, Pirimicarb (SP), Pirimifos Etil, Pirimifos Metil,	PE-674 Determination of Pesticide Residues by chromatography GC / MS-MS and LC / MS-MS

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FOOD-ORGANIC-PESTICIDES (cont'd.)	Fruits, Vegetables, Nuts, Cereal & Dried Fruit, Oils/Fatty Matrices (cont'd.)	Piriproxifén, Procimidona, Profenofós, Profluralin, Propargita, Propizamida, Protiofós, Quinalfós, Quintoceno, Simazina, Tebuconazol, Tebufenpirad, Tecnaceno, Teflutrin, Terbacil, Terbutilazina, Terbutrin, Tetraconazol, Tetradifón, Tetrametrina, Tiometon, Tolclofos Metil, Translutrin, Triadimenol (SP), Triazofos, Trifluralina, Vinclozolina (SP), 2,4-DDD, 2,4-DDE, 4,4-Diclorobenzofenona, Ametrina, Buprofezin, Carbosulfan, Clorbenzilat, Clorfenson, Clormefos, Clorotalonil, Clortoluron, Clozolinato, DEET, Deltametrina, Diafentiuron, Diclobutazol, Diclofention, Dicrotofos, Endrin, EPNC, Etrimfos, Fenclorfos, Fenoxicarb, Fention sulfon, Fention Sulfoxido, Fluazifop-Butil, Fluopicolide, Fluopiram, Fluotrimizol, Folpet, Formotion, Fosfamidon, Ftalamida (Folpet), Furalaxil, Heptacloro (SP), Hexaconazol, Lindano, Naled, Paraoxon Metil, Procloraz (SP), Prometrina, Propaclor, Terbumeton, Tetraclorvinfos, Tetrahidroftalamida (Captan), Triadimefon (SP), Dieldrin (SUM), DDT (SUM), Disulfutón (SUM), Endosulfan (SUM), Folpet (SUM), Quintoceno (SUM), Paration Metil (SUM), Clordano, Triadimefon y Triadimenol. Abamectina, Acetamiprid, Aldicarb, Aldicarb Sulfona, Aldicarb Sulfoxido, Azoxistrobina, Bendiocarb, Bentiavalicarb, Boscalida, Bromuconazol, Butoxicarboxim, Cadusafos, Carbaril, Carbofuran (SP), Ciazofamida, Cimoxanilo, Clofentezina, Clomazona, Clorantranilliprole, Clotianidin, Oxidemetón- metilo (SP), Demeton-S- Metil (SP), Desmedifam, Diclormid, Dietofencarb, Diflubenzuron, Dimetoato (SP), Dimetomorf, Dodemorfo, Dodina, Epxiconazol, Espinetoram,	PE-674 Determination of Pesticide Residues by chromatography GC / MS-MS and LC / MS-MS (cont'd.)

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FOOD-ORGANIC-PESTICIDES (cont'd.)	Fruits, Vegetables, Nuts, Cereal & Dried Fruit, Oils/Fatty Matrices (cont'd.)	Espinosad, Espirodiclofeno, Espiromesifeno, Espirotetramat (SP), Espiroxamina, Etofenfencarb, Etiprol, Etofenprox, Etoxazol, Famoxadona, Fenamidona, Fenamifos (SP), Fenbuconazol, Fenhexamida, Fenmedifan, Fenmedifan, Fenpiroximato, Fenpropidin (SP), Fenpropimorfo, Fensulfotio, Flonicamid (SP), Fludioxonilo, Flufenacet, Flufenoxuron, Fluometuron, Fluquinconazol, Flusilazol, Flutolanil, Flutriafol, Forato, Forato Sulfona, Forato Sulfoxido, Forclorfenuron, Fostiazato, Furatiocarb, Hexaflumuron, Hexitiazox, Imazalil, Imidacloprid, Indoxacarb, Isocarbofos, Isoproturón, Isoxabén, Lenacilo, Linurón, Mandipropamid, Mecarbam, Mepanipirim, Metaflumizona, Metamitrona, Metazacloro, Metil Tiofanato (SP), Metiocarb (SP), Metolacloro, Metolcarb, Metomilo (SP), Metoxifenoxida, Metoxuron, Metrafenona, Monocrotófos, Monolinurón, Nitenpiram, Novalurón, Ometoato, Oxadiargilo, Oxadiazón, Oxamilo, Oxicarboxina, Paclobutrazol, Pencicurón, Picoxistrobina, Piraclostrobin, Profam, Propamocarb (SP), Propanil, Propaquizafop, Propiconazol, Propoxur, Proquinazid, Prosulfocarb, Quinoxifen, Quizalofop- Ethyl (SP), Rotenona, Sulfotep, Tebufenocida, Teflubenzurón, Terbufos, Tiabendazol, Thiametoxam (SP), Tiacloprid, Tiodicarb (SP), Tridemorfo, Trifloxystrobin, Triflumizol (SP), Triflumurón, Zoxamida, Acefato, Acequinocyl, Amitraz, Azadiractina, Azametifos, Azimsulfurón, Azinfos Etil, Azinfos Metil, Benomilo- Carbendazima, Bentazona Metil, Bentazona (SP), Bioaletrina, Bromacilo, Butacloro, Butralina, Carbofuran-3- Hidroxi,	PE-674 Determination of Pesticide Residues by chromatography GC / MS-MS and LC / MS-MS (cont'd.)

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
FOOD-ORGANIC-PESTICIDES (cont'd.)	Fruits, Vegetables, Nuts, Cereal & Dried Fruit, Oils/Fatty Matrices (cont'd.)	Carboxim, Carfentrazona Etil, Cicloato, Cicloxidim (SP), Ciflufenamida, Cihexatina, Ciromazina, Clorfluazuron, Cloridazon, Cyantraniliprole, Demeton S Metil sulfona, Dialifos, Diclorvos, Diclofop Metil, Dinocap (SP), Dinotefuram, Diuron, DNOC, Emamectina Benzoato, Espiroetramat- Cis-ketohidroxi, Espiroetramate-Enol-Glucoside, Espiroetramate-Monohidroxi, Etiofencarb sulfóxido, Ethirimol, Etoxiquina, Fenbutatín Óxido, Fenobucarb, Fenpirazamina, Fipronil (SP), Flazasulfuron, Fluacinam, Flubendiamida, Flumioxazina, Formetanato, Fosmet (SP), Haloxyfop-2- Ethoxyetil, Indaziflam, Metamidofos, Metiocarb sulfona, Metiocarb sulfóxido, Orizalin, Pentiopirad, Pimetrocina, Piridato, Promecarb, Rimsulfuron, Saflufenacil, Sulfoxaflor, Terbufos sulfona, Terbufos sulfóxido, Tiobencarb, Tiociclam, Tolilfluanida (SP), Triclorfon, Triciclazol, Triforina, Aldicarb (SUM), Dimetoato (SUM), Metiocarb (SUM), Forato (SUM), Oxidemetón-metilo (SUM), Carbofuran (SUM), Metomilo (SUM), Thiametoxan (SUM) BAC nC-08, BAC nC-10, BAC nC-12, BAC nC-14, BAC nC-16, BAC nC-18, DDAC nC-08, DDAC nC-10, DDAC nC-12, DDAC nC-14	PE-674 Determination of Pesticide Residues by chromatography GC / MS-MS and LC / MS-MS (cont'd.)
	Cereal, Nuts, Dried fruits/Fruits, Vegetables	Aflatoxins y Ochratoxins	PP-225 Determination of Micotoxins by Liquid Chromatography LC /MS-MS
	Fatty Matrices and Fruits and Vegetables	Dithiocarbamates (as CS ₂)	PEC-032 Determination of Dithiocarbomates through Spectrophotometric ultraviolet visible spectrophotometry.
	Fruits, Vegetables, Grains and Cereals	Fosetil; Clorato; Etefon; Perclorato; Acido Fosfónico + Sales; Fosetil-Al(Suma).	PE-690

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
			Polar pesticides in food-Fruits and vegetables, by LC-MS/MS.
FOOD-ORGANIC	Fruit and Vegetables High Water and Low Fat	Quaternary Ammonium	PE-655 Determining Quaternary Ammonium Compounds by Chromatography.
	Fruits, Vegetables, Nuts, Cereal & Dried Fruit, Oils/Fatty Matrices	Glyphosate	PE-681 Determination of Glyphosate, Glufosinate and AMPA in Fruit and Vegetables by LC/MS-MS Chromatography
	Fish & Hydrobiological	Hystamine	PE-516 Determination of Residues of Hystamine by LC- MS/MS Chromatography. Hystamine
FOOD-INORGANIC	Fruits and vegetables /Fish and Hydrobiological	Hg, As, Cr, Cd, Sn, Pb, Cu, Ni, V, Fe, Zn, Mn.	PC-230 Determination of base metal by ICP/OES Multi Element Analysis
	Meats, fish and seafood, fruits, vegetables, and fruit juice, milk and milk, derivatives, oil, cereals and flour, fish flour	Total: Ag, Al, As, Ba, Be, Cd, Co, Cr, Cu, Hg, Mn, Mo, Ni, Pb, Sb, Se, B, Fe, Li, Sn, Sr, Ti, V, Zn	PE-324 Determination of Total elements in food by spectroscopy ICP-MS.
	Processed and Unprocessed Foods	Total Fat	PE-356 Determination of Total Fat in Foods
		Protein	PE-987 Determination of Protein by Elemental Analyzer in Food and Feed
		Moisture	PE-345 Determination of Moisture in Food
Ash		PE-355 Determination of Ashes in Food and Feed by Gravimetry	
	Metals (Ca, Na, K, Mg, Fe)	PP-286 Determination of Majority Elements in Foods By ICP-MS Spectroscopy	

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
FOOD-MICROBIOLOGY	Food, fish flour	Colony Count Techniques at 30°C, Horizontal Method for the Enumerations of Microorganisms (Aerobics mesophylls)	UNE-EN ISO 4833-1:2014 Colony Count Techniques at 30°C, Horizontal Method for the Enumerations of Microorganisms
		Yeast and Mold	FDA BAM Ch 18, B.1 Enumeration of Yeast and Mold – Dilution Plating Technique. Spread-plate Method
	Food and Processed Food, Prepared Food, fish flour	<i>Salmonella spp</i>	ISO 6579-1:2017 Detection of Salmonella spp. Horizontal Method for the Detection of Salmonella spp. 37°C
		<i>Staphylococcus aureus</i> and others	ISO 6888-1:2021 Microbiology of the food chain – Horizontal method for the enumeration of coagulase-positive staphylococci (<i>Staphylococcus aureus</i> and other species), Part 1: Method using Baird-Parker agar medium
		Bacillus cereus presumptive	ISO 7932:2004 Horizontal method for the enumeration of presumptive Bacillus cereus – Colony-count technique at 30°C
		<i>Escherichia coli</i>	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-3indolyl beta-D- glucuronide
		Total Coliform Count	AOAC 991.14 Total Coliform Count
		<i>Listeria Monocytogenes</i>	UNE-EN ISO 11290-1:2018

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FOOD-MICROBIOLOGY (cont'd.)	Food and Processed Food, fish flour (cont'd.)		Detection and Enumeration of Listeria Monocytogenes. Part 1: Detection Method
		Escherichia coli	ICSMF. 2nd Edition. Vol 1, Part II. Coliforms: NMP Method 1. Fecal Coliforms Method 1. Escherichia coli: IMViC. Identification Tests of Coliform Organisms: IMViC.
		Yeast and Mold	ICSMF. 2nd Edition. Vol 1, Part II. Mold and Yeast count. Yeast and Mold count method
	Fruits, Vegetables, Cereals, fish flour	Listeria monocytogenes	AOAC Official Method 2013.11. Listeria monocytogenes in a Variety of Foods. VIDAS® Listeria monocytogenes Xpress (LMX) Method (Validated).
		Salmonella spp	AOAC Official Method 2013.01. Salmonella in a Variety of Foods VIDAS® UP Salmonella (SPT) Method. (Validated)
		Total Coliform Count	AOAC RI Performance Tested Method N.° 060702 (Validated) - TEMPO
		Yeast and Mold	AOAC RI Performance Tested Method N° 041001 (Validated) -TEMPO
		Escherichia coli	AOAC Official Method 2009.02. Automated Enumeration of Escherichia coli in Food. TEMPO. EC Method (Validated)
		Staphylococcus aureus	AOAC RI Performance Tested Method N.° 120901 (Validated) -TEMPO.
		Aerobics mesophylls	AOAC RI Performance Tested Method N.° 121204. (Validated) - TEMPO.
		Enterobacteria Count	AOAC RI Performance Tested Method N.° 050801 (Validated) -TEMPO.

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FOOD- MICROBIOLOGY (cont'd.)	Processed Food, Prepared Food	<i>Vibrio Cholerae</i>	UNE-EN ISO 21872-1:2018 Microbiology of the food chain - Horizontal method for the determination of <i>Vibrio</i> spp. - Part 1: Detection of potentially enteropathogenic <i>Vibrio parahaemolyticus</i> , <i>Vibrio cholerae</i> and <i>Vibrio vulnificus</i>
		<i>Vibrio Parahaemolyticus</i>	UNE-EN ISO 21872-1:2018 Microbiology of the food chain - Horizontal method for the determination of <i>Vibrio</i> spp. - Part 1: Detection of potentially enteropathogenic <i>Vibrio parahaemolyticus</i> , <i>Vibrio cholerae</i> and <i>Vibrio vulnificus</i>
	Processed Food, Prepared Food (cont'd.)	<i>Clostridium perfringens</i>	ISO 7937:2004 Microbiology of food and animal feeding stuffs - Horizontal method for the enumeration of <i>Clostridium perfringens</i> - Colony-count technique
		<i>Escherichia coli</i> 0157:H7	AOAC RI Performance Tested N°060903 (Validated) -TEMPO. Detection of <i>Escherichia coli</i> 0157:H7
		<i>Listeria</i> spp	AOAC Official Method 2013.10. Detection of <i>Listeria</i> spp.
AGRONOMIC – INORGANIC	Foliage	Total Nitrogen	PE-130 / PEC-034 Determination of Dumas Nitrogen.
		Total: B, Ca, Cu, Mg, Mn, K, Na, Zn, P, Fe y Mo.	PE-2130 Metals in Foliage by Spectrophotometry ICP-OES
	Fruits, Stems, Roots, Flowers, Foliage	Total: B, Ca, Cu, Mg, Mn, K, Na, Zn, P, Fe	PE-102 / PEC-009 Determination of metals by plasma emission spectrophotometry
		Chloride	PE-336 Ammonium, Chloride, TON and Alkalinity by flow analyzer segmented continued.

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AGRONOMIC – INORGANIC (cont'd.)		Dry Matter	PEC-022 Determination of moisture and dry matter.
		Initial Weight, Final Weight	PEC-022 Determination of moisture and dry matter.
	Fruits	Total Nitrogen	PE-130 / PEC-034 Determination of Dumas Nitrogen.
		Total Calcium	PE-2079 Determination of fractions of Calcium in plant tissues.
	Irrigation Water, Soil Solution	Chloride, Nitrate	PE-336 Ammonium, Chloride, TON and Alkalinity by flow analyzer segmented continued.
		Conductivity	PEC-002 Determination of electrical conductivity.
		B, Ca, Cu, Mg, Mn, K, Na, Zn, P, Fe	PEC-009 Determination of Metals by ICP- OES.
		Alcalinity	PEC-011 Alkalinity in Water
	Saturated Paste Extract (EPS) in Agricultural Soil	Chloride, Nitrate, Ammonium	PE-336 Ammonium, Chloride, TON and Alkalinity by flow analyzer segmented continued
		pH	PEC-001 Determination pH by Saturated Pasta Extract (EPS) in agricultural soil
		Conductivity	PEC-002 Determination of electrical conductivity
		B, Ca, Cu, Mg, Mn, K, Na, Zn, P, Fe	PEC-009 Determination of metals by plasma emission spectrophotometry
		Bicarbonate	PEC-001/PEC-011 Saturated Pasta Extract (EPS) Alcalinity in Water

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AGRONOMIC – INORGANIC (continued)	Saturated Paste Extract (EPS) in Agricultural Soil (cont'd.)	Determination of % base saturation (elements of change)	PEC-020 Determination of % base saturation (elements of change)
		Residue (Calculation)	PEC-037 Residue (Calculation)
		RAS	PEC-040 Determination of the adsorption relationship of sodium (R.A.S.) by Saturated Pasta Extract (EPS) in agricultural soil RAS
	Vegetables	Total Nitrogen	PEC-034 Determination of Nitrogen Dumas
		Metals: Ca, Mg, Na, K, Fe, Mn, Cu, Zn, Mo, P and B	PEC-009 Determination of metals by plasma emission spectrophotometry
	Agricultural Soil	Available Bases: Available Calcium, Available Potassium, Available Magnesium, Available Sodium	PEC-009 Determination of metals by plasma emission spectrophotometry
		Bases of Change: Calcium Change, Potassium Change, Magnesium Change, Sodium Change	PEC-009 Determination of metals by plasma emission spectrophotometry
		Iron (DPTA), Manganese (DPTA), Copper (DPTA), Zinc (DPTA)	PEC-009 Determination of metals by plasma emission spectrophotometry
		Active Limestone	PEC-014 Determination of Active limestone
		Cation Exchange Capacity (CEC)	PEC-019 Determination of Cation Exchange Capacity (CEC)
		Available Phosphorus	PE-2125 Olsen Phosphorus by Induced Coupled Plasma Optic Emission Spectroscopy (ICP-OES)
		Textural Class: Textural Class, Clay, Sand, Silt	PE-2127 Determination Textural
		Electrical conductivity (Extract 1/1)	PE-2128

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AGRONOMIC – INORGANIC (cont'd.)	Agricultural Soil (cont'd.)		Determination of pH and EC in Soil Extracts
		pH (Extract 1/1) pH (Extract 1/2.5)	PE-2128 Determination of pH and EC in Soil Extracts
		Total Organic Matter	PE-2129 Determination Organic Matter in Soils by Elementary Analyzer
	Fertilizers -Organic and Inorganic	pH	PEC-001 pH Determination
		pH (Extract 1/10)	
		Electrical Conductivity	PEC-002 Determination of Electrical Conductivity
		Total Metals: Ca, Mg, Na, K, Fe, S, Mn, Cu, Zn, Mo, P and B	PEC-009 Determination of metals by plasma emission spectrophotometry
		Magnesium oxide, Phosphorous Oxide, Potassium oxide,	PEC-009 Determination of metals by plasma emission spectrophotometry
		Total Organic Carbon	PEC-012 Determination of Matter Total Organic
		Total Organic Matter	PEC-012 Determination of Matter Total Organic
		Total Nitrogen	PEC-034 Determination of Nitrogen Dumas
		Total Metals: As, Cd, Cr, Sn, Hg, Pb	PP-257 Metals in fertilizers and Chemical substances by ICP-MS
		Total Metals: Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Se, Sn, Ti, V, Zn, S.	PP-281 Determination of Metals in Fertilizers by Plasma Emission Spectrophotometry
		Carbonates	NOM-021-SEMARNAT-2000. Item 7.3.25 Method AS-29. 2002 Determination of Carbonates in the soil
		Bulk Density	UNE EN 1236:1996

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
AGRONOMIC – INORGANIC (cont'd.)	Fertilizers -Organic and Inorganic (cont'd.)		Fertilizers Determination of bulk density (loose)
		Impurities	PE-385 Determination of Impurities in Organic Fertilizers and Inorganic Fertilizers
MINING – GEOCHEM	Samples Minerals	Aqua Regia Digestion: Multi-Element Analysis: Ag, Al, As, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Ga, Hg, In, K, La, Li, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Sc, Se, Sn, Sr, Ti, Tl, V, W, Zn	PE-4041/PE-4042 Disintegration of mineral samples. Acid Digestion and Alkaline Mergers / Determination of metals in minerals by spectrophotometry of emissions by coated plasma induced (ICP- OES).
		Digestion Four Acids: Multi-Element Analysis (Ag, Al, As, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, La, Li, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Sc, Sn, Sr, Ti, V, W, Zn	PE-4041/PE-4043 Disintegration of mineral samples. Acid Digestion and Alkaline Mergers / Determination of metals in minerals by spectrophotometry of emissions by coated plasma induced (ICP-OES).
	Rock, Rock Chip, Drill Core, Soil, Sediment, Sample Pulp, Samples Minerals	Elemental Sulfur	PE-4004 Elemental sulfur. Method of Discontinuous Extraction with Carbon Sulfide.
		Total Sulphate	PE-4005 Total Sulfate in Minerals and Lixivated Solutions.
		Aqua Regia Digestion: Multi-Element Analysis: Ag, Al, As, Ba, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Sn, Sr, Ti, Tl, V, Zn	PE-4006 Metals in Minerals by Plasma Emission Spectrophotometry (ICP / OES)
		4 Acid Digestion: Multi-Element Analysis: Ag, Al, As, Ba, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Sn, Sr, Ti, Tl, V, Zn	
	Gold and Silver	PE-4007 / PE-4008 Sample Preparation Fire Test /	

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
MINING – GEOCHEM (cont'd.)	Rock, Rock Chip, Drill Core, Soil, Sediment, Sample Pulp, Samples Minerals (cont'd.)		Determination of Au and Ag By Spectrophotometry of Atomic Absorption
		Copper	PE-4009 Cooper in Bullons. Volumetric Methods
		Zinc	PE-4010 Zinc in Bullons. Volumetric Methods
		Lead	PE-4011 Lead in Bullons. Volumetric Methods
		Iron	PE-4012 Iron in Bullons. Volumetric Method
		Total Sulphide	PE-4016 Sulfur by Calculation Total Sulphide
		Sample Preparations	PE-4017 Drying, Crushing, Pulverized, Sieve.
		Cu, Pb, Fe, Zn, Ag	PE 4026 Determination of Metals by Atomic Absorption Spectrophotometry.
		Copper - H ₂ SO ₄ soluble	PE 4030 Soluble Copper in Sulfuric Acid by Atomic Absorption.
		Ag, Al, As, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Se, Sn, Sr, Ti, Ta, V, Zn.	PE-4047 Dold Sequential Extraction for Metal Separation in Solid Samples.
		Ag, Al, As, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Se, Si, Sn, Sr, Ti, U, V, Zn	PE-4401 Toxicity Characteristic Leaching Procedure (TCLP). EPA Method 1311.
		Neutralization Potential	PE-4402 Neutralization Potential (NP). Method of Sobek.
		Lawrence Neutralization Potential	PE-4403 Neutralization potential (NP). Modification Lawrence & Wang
		Metal present in water soluble Interchangeable ions Metal associated with carbonates.	PE 4406 Leinz Sequential Extraction for Separation of Metals In

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
MINING – GEOCHEM (cont'd.)	Rock, Rock Chip, Drill Core, Soil, Sediment, Sample Pulp, Samples Minerals (cont'd.)	Metal associated with manganese oxides and amorphous iron (Fe, Mn Oxam). Metal bound to crystalline iron oxides (Fe Oxicryst) Metals in sulfides Remaining metal not extracted at earlier stages as silicate resistant phases.	Samples Solid.
		Maximum Potential Acidity (MPA) Net Neutralizing Potential (NNP)	PE-4407 European Ratio Pronor Potential of Neutralization.
		Total Sulfur	PE-4408 Elemental Analyzers
		Fizz Rating	PE-4409 Fizz Rating
		Method 200.7: S, Si, Ca, Mg, K, Na Method 200.8: Ag, Al, As, B, Ba, Be, Cd, Co, Cr, Cu, Fe, Hg, Li, Mn, Mo, Ni, P, Pb, Sb, Se, Sn, Sr, Ti, Tl, V, Zn	PE-4411/ EPA 200.7 /EPA Method 200.8 Degradation Method of Solid Materials using Moisture Cells / EPA Method 200.7 – EPA Method 200.8
		Ag, Al, As, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Se, Si, Sn, Sr, Ti, U, V, Zn	PE-4412 Leaching in pH 4,2 of Inorganic Compost (SPLP)
		pH	PE-4413 Net Generation of Acid (NAG)
		Method 200.7: S, Si, Ca, Mg, K, Na Method 200.8: Ag, Al, As, B, Ba, Be, Cd, Co, Cr, Cu, Fe, Hg, Li, Mn, Mo, Ni, P, Pb, Sb, Se, Sn, Sr, Ti, Tl, V, Zn.	PE-4413 / EPA Method 200.7 / EPA Method 200.8) Net Generation of Acid (NAG)
		Ag, Al, As, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Se, Si, Sn, Sr, Ti, U, V, Zn	PE-4414 Shake Flask Test, Solubility Testing (SFT)
		pH paste	PE-4416 pH paste (paste method)
	Ag, Al, As, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Ni, P, Pb, S, Sb, Se, Sn, Sr, Ti, Tl, V, Zn	PE-4421 Tessier Sequential Extraction for Separation of Metals in Solid Samples	
	Rock, Drill Core, Sample Pulp, Sample Minerals	Specific Gravity	PE-4029 Specific Gravity in Minerals
		Alkaline fusion with sodium peroxide (silicon)	PP-206 Determination of Silicon by

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
MINING – GEOCHEM (cont'd.)			fusion with Sodium Peroxide
	Soils, sediments, sludge, minerals, rocks, tailings, waste rock, pulp, mining wastes	Metals: Al, Sb, As, S, Ba, Be, B, Cd, Ca, Co, Cu, Cr, Sn, Sr, P, Fe, Li, Mg, Mn, Hg, Mo, Ni, Ag, Pb, K, Se, Si, Na, Tl, Th, Ti, W, U, V, Zn	PE-4411 / EPA 6020 B Degradation Method Of Solid Materials Using Moisture Cells / Inductively Coupled Plasma-Mass Spectrometry
		Anions: Chloride, Bromide, Sulfate, Nitrate, Nitrite, Fluoride, Phosphate	PE-4411/ PE-2090 Degradation Method Of Solid Materials Using Moisture Cells / Anions In Waters By Ion Chromatography
		Alkalinity, Carbonate, Bicarbonate	PE-4411/ PEC-011 Degradation Method Of Solid Materials Using Moisture Cells / Alkalinity In Waters
		Conductivity	PE-4411/ PEC-002 Degradation Method Of Solid Materials Using Moisture Cells / Determination Of The Electric Conductivity
		pH	PE-4411/ PEC-001 Degradation Method of Solid Materials Using Moisture Cells / Ph Determination
		Redox potential	PE-4411/ SMEWW-APHA-AWWA-WEF 2580 B Degradation Method Of Solid Materials Using Moisture Cells / Oxidation–Reduction Potential (Orp)
		Metals: Al, Sb, As, S, Ba, Be, B, Cd, Ca, Co, Cu, Cr, Sn, Sr, P, Fe, Li, Mg, Mn, Hg, Mo, Ni, Ag, Pb, K, Se, Si, Na, Tl, Th, Ti, W, U, V, Zn	PE-4414/ EPA 6020 B Shake Flask Test / Inductively Coupled Plasma–Mass Spectrometry
		Anions: Chloride, Bromide, Sulfate, Nitrate, Nitrite, Fluoride, Phosphate	PE-4414/ PE-2090 Shake Flask Test Solubility Test / Anions in Waters by Ionic Chromatography
Alkalinity, Carbonate, Bicarbonate	PE-4414/ PEC-011 Shake Flask Test Solubility Test /		

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
MINING – GEOCHEM (cont'd.)	Soils, sediments, sludge, minerals, rocks, tailings, waste rock, pulp, mining wastes (cont'd.)		Alkalinity in Waters
		Conductivity	PE-4414/ PEC-002 Shake Flask Test Solubility Test / Determination of the Electric Conductivity
		pH	PE-4414/ PEC-001 Shake Flask Test Solubility Test / Ph Determination
		Redox potential	PE-4414/ SMEWW-APHA-AWWA-WEF 2580 B Shake Flask Test Solubility Test / Oxidation–Reduction Potential (Orp)
		Granulometry	PE-4039 Granulometric Analysis
		Inorganic Carbon by LECO	PP-287 Determination of Inorganic Carbon by Iir Absorption Method With Elemental Analyzer
		Total Carbon by LECO	PP-266 Total Carbon Determination by IR Absorption Method With Elemental Analyzer
HEALTH & SAFETY	Toys and stationery	Migration of elements Al, Sb, As, Ba, B, Cd, Cr, Co, Cu, Pb, Mn, Hg, Ni, Se, Sr, Sn, Zn	UNE-EN-71-3:2020+A1 (2021) Part 3 Annex E Migration of certain elements
		Phthalates esters Dibutylphthalate (DBP) Butylbenzylphthalate (BBP) Di(2-ethylhexyl) phthalate (DEHP) Di-n-octylphthalate (DNOP) Di-isononylphthalate (DINP) Diisodecylphthalate (DIDP)	UNE-EN 14372 Child use and care articles - Cutlery and feeding utensils - Safety requirements and tests