



# 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 15022, LIMA, 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 6, 2021



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](http://www.agqlabs.pe)

**Contact Name** Lucila Salazar

**Contact Phone** +51-1-7102702

*Accredited to ISO/IEC 17025:2017*

*Effective Date January 6, 2021*

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.
		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; $\alpha$ -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; Heptacoloro; Heptacoloro Epoxido; Metoxicloro; Aldrin+Dieldrin; Clordano; Heptacoloro + Heptacoloro Epoxido; Lindano; Endosulfán; DDT (Suma de 4,4'-DDD y 4,4'-DDE)	EPA Method 8081B Organochlorine Pesticides by gas Chromatography.
		Polychlorinated Biphenyls (PCBs) PCB 28; PCB 52; PCB 101; PCB 118; PCB 138; PCB 153; PCB 180; PCB's Sum	EPA Method 8082 A Polychlorinated Biphenyls (PCBs) by gas chromatography

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
ENVIRONMENTAL – ORGANICS (cont'd.)	Natural Water, Drinking Water, Saline Water, Process Water and Wastes Water (Field collection + Lab Testing) (cont'd.)	<p>Volatile Organic Compounds</p> <p>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-dicloropropano; Dibromometano; 1,3diclorobenceno; 1,3- trans-dicloropropano; 1,4-diclorobenceno; 1-1-2-tricloroetano; 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 tricloreteno; 1,1-Dicloroetano; Cloruro de Vinilo.</p> <p>Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) DS N° 004-2017-MINAM, Trihalometanos, Xilenos</p>	<p>EPA Method 8260D</p> <p>Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)</p>
		<p>Polycyclic Aromatic Hydrocarbons: 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;</p>	<p>EPA Method 8270E</p> <p>Semi-volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)</p>

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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.)	Fenantreno; Fluoranteno; Fluoreno; Naftaleno; Pireno; Pentaclorofenol	EPA Method 8270E Semi-volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (cont'd.)
		Polychlorinated Biphenyls: PCB 101; PCB 118; PCB 138; PCB 153; PCB 180; PCB 28; PCB 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; α-BHC; β-BHC; δ-BHC; Heptachloro; Heptacloro-Epoxido; Hexaclorobenceno, Isodrin, γ-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 Epóximo; Clordano; Endosulfan	
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)		

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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.)	Ortofenil Fenol (OPP), Acetacloro, Aldrin (SP), Benalaxil (SP), 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 (SP), Diflufenicán, Disulfotón (SP), Endosulfan Beta, Etofumesato (SP), Etoprofos, Fenarimol, Fenazaquina, Fenpropatrin, Fention (SP), Fonofos, Isazofos, Hexazinona; Isofenfos, Isofenfos Metil, Kresoxim Metil, Metacrifós, Metalaxil (SP), Metribuzina, Miclobutanil, Mirex, Molinato, Napropamida, Nuarimol, Ofurace, pp- DDE, Penconazol, Pendimetalina, Pentacloroanilina, Pentacloroanisol, Pentaclorobenceno, Permetrina, Pirifenox, Pirimetanil, Pirmicarb (SP), Pirimifos Metil, Procimidona, Protiofós, Quinalphos, Quintoceno, Simazina, Tebuconazol, Tebufenpirad, Tecnaceno, Teflutrin, Terbutilazina, Terbutrin, Tetraconazol, Tetradifón, Tetrametrina, Tiometon, Tolclofos Metil, Transflutrin, Triadimenol (SP), Trifluralina, Vinclozolina (SP), 2,4,6,Trichlorophenol, 2,4- DDD, 2,4-DDE, 4,4 Diclorobenzofenona, Ametrina, Buprofezin, Clorbenzilat, Clorfenson, Clormefos, Diclobutazol, Diclofention, Endrin, EPTC, Etrimfos, Fenclorfos, Fluazifop- Butil, Fluopicolide, Fluopiram, Fluotrimizol, Folpet, Furalaxil, Heptacloro (SP), Hexaconazol, Lindano, Paraoxon Etil, Propaclor, Tetrahidroftalamida (Captan), Clordano, Dieldrin (SUM), Abamectina, Acetamiprid, Aldicarb, Aldicarb Sulfona, Aldicarb Sulfoxido, Azoxistrobina, Bendiocarb, Bentiavalicarb, Boscalida, Bromuconazol,	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.)	Butoxicarboxim, Cadusafos, Carbaril, Carbofuran (SP), Ciazofamida, Cimoxanilo, Clofentezina, Clomazona, Clorantranilliprole, Clotianidin, Desmedifam, Diclormid, Dietofencarb, Dimetoato (SP), Dimetomorf, Dodemorf, Epoxiconazol, Espinetoram, Espinosad, Espirodiclofeno, Espiromesifeno, Espirotetramat (SP), Espiroxamina, Etiprol, Etofenprox, Etoxazol, Famoxadona, Fenamidona, Fenbuconazol, Fenhexamida, Fenmedifan, Fenpiroximato, Fenpropidin (SP), Fenpropimorfo, Fensulfotion, Flonicamid (SP), 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 (SP), Metolacloro, Metolcarb, Metomilo (SP), Metoxifenoxida, Metoxuron, Metrafenona, Monocrotófos, Monolinurón, Nitenpiram, Novalurón, Ometoato, Oxadiargilo, Oxadiazón, Oxamilo, Oxicarboxina, Pencicurón, Picoxistrobina, Piraclostrobina, Profam, Propamocarb (SP), Propanil, Propaquizafop, Propiconazol, Propoxur, Proquinazid, Prosulfocarb, Quinoxifen, Quizalofop-ethyl (SP), Rotenona, Sulfotep, Tiabendazol, Thiametoxam (SP), Tiacloprid, Tiodicarb (SP), Tridemorfo, Trifloxystrobin, Triflumizol (SP), Triflumurón, Zoxamida, 2,4-D, Acefato, Acequinocyl, Azadiractina, Azametifos Azimsulfurón, Azinfos	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.)	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 (SP), Dinotefuram, Diuron, DNOC, Enamectina Benzoato, Espirotetramat- Cis-ketohidroxi, Espirotetramate-Enol- Glucoside, Espirotetramate-Monohidroxi, Ethirimol, Fenobucarb, Fenpirazamina, Flzasulfuron, Flumioxazina, Formetanato, Fosmet, Fuberidazol, Haloxifop-Metil, Haloxyfop-2- Ethoxyetil, Haloxifop, Himexazol, Imazamox, Indaziflam, Ioxinil (SP), MCPA, Metamidofos, Metiocarb sulfóxido, Nicosulfuron, Orizalin, Pentiopirad, Piraflufeno, Promecarb, Quinclorac, Rimsulfuron, Saflufenacil, Sulcotriona, Sulfoxaflor, Terbufos sulfona, Terbufos sulfoxido, TFNA, TFNG, Tiobencarb, Tiociclam, Tolilfluanida (SP), 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) Petroleum Hydrocarbon emulsified or dissolved mineral oil	PP-210 Total Petroleum Hydrocarbons Calculated In 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.

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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.)	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
	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	
Soil, Sediments and Sludges (Field collection + Lab Testing)	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-tetrachloroetano; 1,1,1-trichloroetano; 1,1,2,2-tetrachloroetano; 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- trichloroetano; Benceno; Bromobenceno;		



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ENVIRONMENTAL – ORGANICS (cont'd.)	Soil, Sediments and Sludges (Field collection + Lab Testing) (cont'd.)	Bromoclorometano; Bromodiclorometano; Bromoformo; Clorobenceno; Clorodibromometano; Cloroformo; 2- Clorotolueno; 1,2-dibromo-3-chloropropano; 1,2- Dibromoetano; Dibromometano; 1,1- Dicloro-1-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-Tetraclorobenceno; metil-t-butil-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 SUM (Calculate)	
		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,	

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ENVIRONMENTAL – ORGANICS (cont'd.)	Soil, Sediments and Sludges (Field collection + Lab Testing) (cont'd.)	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, Etion, Etoprofos, Fenamifos, Flusilazol, α-BHC, β-BHC, δ-BHC, Heptachloro, Heptacloro-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, Heptacloro y Heptacloro epóxido (Sum) = Heptacloro + Heptacloro 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)	Polychlorinated Biphenyls: PCB 101, PCB 118, PCB 138, PCB 153, PCB 180, PCB 28, PCB 52, PCB's SUM	EPA Method 8270E Semi-volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS).

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ENVIRONMENTAL – ORGANICS (cont'd.)	Soil, Sediments (Field collection + Lab Testing) (cont'd.)	Ortofenil fenol(OPP), Acetacoloro, Carination, Alacoloro, Aldrin (SP), Atrazina, Benalaxil (SP), Benfluralina, Bifenazato (SP), Bifenilo, Bifentrina, Bitertanol, BromofosMetil, 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, Disulfotón sulfona, Disulfotón sulfoxido, Endosulfan Alfa, Endosulfan Beta, Endosulfan Sulfato, Etion, Etofumesato (SP), Etoprofos, Fenarimol, Fenazaquina, Fenitrotión, Fenpropatrin, Fention (SP), Fentoato, Fenvalerato+ Esfenvalerato, Flucitrinato, Iprovalicarb, Isazofos, Isofenfos, Isofenfos Metil, Kresoxim Metil, Malation (SP), Mepronilo, Metacrifós, Metalaxil (SP), 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, Pirifenox, Pirimetanil, Pirimicarb (SP), 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, Translutrin, Triadimenol (SP), Trifluralina, Vinclozolina (SP), 2,4-DDD; 2,4-DDE, 4,4-	PE-674 Determination of Pesticide Residues by chromatography GC / MS-MS and LC / MS-MS

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
ENVIRONMENTAL – ORGANICS (cont'd.)	Soil, Sediments (Field collection + Lab Testing) (cont'd.)	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 (SP), Hexaconazol, Lindano, Prometrina, Propaclor, 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 (SP), Ciazofamida, Cimoxanilo, Clofentezina, Clomazona, Clorantraniliprole, Clotianidin, Oxidemetón- metilo (SP), Desmedifam, Diclormid, Dietofencarb, Diflubenzuron, Dimetoato (SP), Dimetomorf, Dodemorfo, Epoxiconazol, Espinetoram, Espinosad, Espirodiclofeno, Espiromesifeno, Espirotetramat (SP), Espiroxamina, Etiofencarb, Etiprol, Etofenprox, toxazol, Famoxadona, Fenamidona, Fenamifos (SP), Fenbuconazol, Fenhexamida, Fenmedifan, Fenpiroximato, Fenpropidin (SP), Fenpropimorfo, Fensulfotion, 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,	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.)	Metaflumizona, Metamitrona, Metazacloro, Metil Tiofanato (SP), Metiocarb (SP), Metolacloro, Metolcarb, Metoxifenoxida, Metoxuron, Metrafenona, Monocrotofós, Monolinurón, Nitenpiram, Novalurón, Ometoato, Oxadiargilo, Oxadiazón, Oxamilo, Oxicarboxina, Pencicurón, Picoxistrobina, Piraclostrobin, Profam, Propanil, Propaquizafop, Propiconazol, Propoxur, Proquinazid, Prosulfocarb, Quinoxifen, Quizalofop- Ethyl (SP), Rotenona, Tebufenocida, Teflubenzurón, Terbufos, Tiabendazol, Thiametoxam (SP), Tiaclopid, Tiodicarb (SP), Tridemorfo, Trifloxystrobin, Triflumizol (SP), 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 (SP), Ciflufenamida, Cihexatina, Clorfluazuron, Cloridazon, Cyantraniliprole, Demeton S Metil Sulfona, Dialifos, Diclorvos, Diclofop Metil, Dinocap (SP), Dinotefuram, Diuron, Emamectina Benzoato, Espirotetramat-Cis- Ketohidroxi, Espirotetramate-Enol- Glucoside, Espirotetramate- Monohidroxi, Etiofencarb sulfÓxido, Ethirimol, Fenbutatín Oxido, Fenobucarb, Fenpirazamina, Flubendiamida, Flumioxazina, Fosmet (SP), 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,	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.)		Tolilfluánida (SP), Triclopir, Triclorfon, Triciclazol, Aldicarb (SUM), Dimetoato (SUM), Metiocarb (SUM), Forato (SUM), Oxidemetón-metilo (SP).	
	Air (Field collection + Lab Testing)	HCT (Hexano), VOCs (Benceno)	ASTM D3687 Analysis of Organic Compound Vapors Collected by the Activated Charcoal Tube Adsorption Method.
		Hidrocarburos No Metanos HCNM	PP-223 Determination of non-methane hydrocarbons in the Atmosphere
	Fish & Hydrobiological (Field collection + Lab Testing)	TPH (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, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Se, SiO <sub>2</sub> , Sn, Sr, Tl, Ti, V, Zn.  Total: Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Se, SiO <sub>2</sub> , Sn, Sr, Tl, Ti, V, Zn.	EPA Method 200.7 Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma-atomic Emission Spectrometry

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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.)	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).	
			Bromate, Chlorite and Chlorate	EPA Method 300.0 Determination of Inorganic Anions by Ion chromatography	
			Total Nitrogen (N-NO <sub>3</sub> + N-NO <sub>2</sub> + N Kjeldahl)	PE-335 Calculated Total Nitrogen in Water.	
			Bromide; Fluoride; chloride; Nitrite (as NO <sub>2</sub> or NO <sub>2</sub> -N); Nitrate (as NO <sub>3</sub> or NO <sub>3</sub> -N); Phosphate (PO <sub>4</sub> or PO <sub>4</sub> -P); Sulfate.	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 <sub>2</sub> D	
			N-NO <sub>3</sub> + N-NO <sub>2</sub> (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.			
ENVIRONMENTAL –	Natural Water, Drinking Water,	Alkalinity, Bicarbonate, Carbonate	SMEWW 2320 B Alkalinity. Titration Method		

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INORGANICS (cont'd.)	Saline Water, Process Water and Wastes Water (Field collection + Lab Testing) (cont'd.)	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 Chloride. Argentometric Method
		Total Cyanide	SMEWW 4500-CN- C, F Cyanide. Total Cyanide After Distillation / Cyanide-Ion Selective Electrode Method.
		pH	SMEWW 4500 H <sup>+</sup> B. pH Value. Electrometric Method.
		Nitrogen Organic Kjeldahl	SMEWW 4500-Norg C Nitrogen (Organic). Semi Micro- Kjeldahl Method.
		Ammonia	SMEWW 4500-NH <sub>3</sub> D Ammonia-Selective Electrode method.
		Nitrite / N-Nitrite	SMEWW 4500 NO <sub>2</sub> -B Nitrogen (Nitrite) Colorimetric Method
		Nitrate / N-Nitrate	SMEWW 4500-NO <sub>3</sub> - B Nitrogen (Nitrate). Ultraviolet Spectrophotometric Screening Method.
		Nitrate / N-Nitrate	SMEWW 4500-NO <sub>3</sub> - D Nitrogen (Nitrate). Nitrate Electrode Method.
		Total Phosphorus	SMEWW 4500 P-B, E Phosphorus. Sample Preparation.Ascorbic Acid Method
Phosphates.	SMEWW 4500-P E		



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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.)	PO4-P / PO4	Phosphorus. Ascorbic Acid Method.
		Sulfide	SMEWW 4500-S <sup>2-</sup> D Sulfide. Methylene Blue Method.
		Hydrogen Sulfide	SMEWW 4500-S <sup>2-</sup> G, H Sulfide. Ion-Selective Electrode Method. Calculation of Un- Ionized.
		Silica	SMEWW 4500-SiO <sub>2</sub> D Silica. Heteropoly Blue Method.
		Sulfate	SMEWW 4500-SO <sub>4</sub> <sup>2-</sup> E Sulfate. Turbidimetric Methods.
		DBO	SMEWW 5210 B Biochemical Oxygen Demand (BOD). 5- Day BOD Test.
		COD	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.
		Mercury (Hg)	UNE EN ISO 17852 Water quality – Determination of mercury – Method using atomic fluorescence spectrometry
Soil and Sediments (Field collection + Lab Testing)	Elements: 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, Tl, V, Zn. S (Validated).	EPA Method 200.7 Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma-atomic Emission Spectrometry.	
	Elements: 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).	

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ENVIRONMENTAL – INORGANICS (cont'd.)	Soil and Sediments (Field collection + Lab Testing) (cont'd.)	Add Elements: B, Ca, Ce, Fe, K, Li, Mg, Na, P, Sn, Sr, Ti, W -(Validated).	
		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 Determination of Electrical Conductivity.
		Mercury	PP-208 Determination of Mercury by Atomic Fluorescence.
	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 <sub>2</sub> , 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.	

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ENVIRONMENTAL – INORGANICS (cont'd.)	Soil and Sludges (Field collection + Lab Testing)	Total Solids	Protocol of Methods of Analysis for Soil and Muds 2. (2007) Water and Total Solids.
	Soil and Sludges (Field collection + Lab Testing) (cont'd.)	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.
		Temperature 'in Situ'	SMEWW 2550 B Temperature. Laboratory and Field Methods.
		pH 'in Situ'	SMEWW 4500 H <sup>+</sup> B pH Value. Electrometric Method.
	Air (Field collection + Lab Testing)	NO <sub>2</sub> (gaseous)	ASTM D1607 – 91 (2011) Standard Test Method for Nitrogen Dioxide Content of the Atmosphere (Griess-Saltzman Reaction).
		SO <sub>2</sub> (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).

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ENVIRONMENTAL - INORGANICS + SAMPLING (cont'd.)	Air (Field collection + Lab Testing) (cont'd.)	PM10 High Volume	NTP 900.030 Air quality. Reference Method for the Determination of Respirable Particulate Matter as PM10 in the Atmosphere.
		O3 (gaseous)	PP-201 Determination of Ozone (O3) in Atmosphere.
		CO (gaseous)	PP-202 Carbon Monoxide (CO) in Atmosphere.
		H2S (gaseous)	PP-203 Determination of Hydrogen Sulfide (H2S) In Atmosphere.
		PM 2.5 High Volume	PP-209 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)

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ENVIRONMENTAL - INORGANICS + SAMPLING (cont'd.)	Air / filter (Only Lab Testing) (cont'd.)	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 <sub>2</sub> )	EPA Method 6  Determination of Sulfur Dioxide Emissions from Stationary Sources (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 <sub>2</sub> , CO, CO <sub>2</sub> , SO <sub>2</sub> , NO, NO <sub>2</sub> and NOX	Determination of O <sub>2</sub> , CO, CO <sub>2</sub> , SO <sub>2</sub> , NO and NO <sub>2</sub> concentration by an automatic analyzer based on EPA CTM 022/ EPA CTM 030. (Field collection + Lab Testing)	
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.

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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 bacteria (UFC)	SMEWW 9215 A,B Heterotrophic Plate Count. Pour Plate Count Method.
		Total Coliform - MPN (NMP)	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.
		Total Coliform - MPN (NMP) (cont'd.)	
		Fecal (Thermotolerant) coliform – MPN (NMP)	SMEWW 9221 E.1 Multiple -Tube Fermentation Technique for Members of the Coliform Group. Thermotolerant (Fecal) Coliform Procedure.
		Escherichia Coli – MPN (NMP)	SMEWW 9221 F.1 Multiple -Tube Fermentation Technique for Members of the Coliform Group. Escherichia Coli Procedure Using Fluorogenic Substrate.
		FecalEntererococcus – MPN (NMP)	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 10200 G Plankton. Zooplankton Counting Techniques.
		Free Living Organisms (OVL) Zooplankton Counting + Phytoplankton Counting + Nematodes Counting	SMEWW 10200 G, SMEWW 10200 F2, SMEWW 10750 B Free Living Organisms (OVL)
Phytoplankton Counting	SMEWW 10200 C.1 F.2. (a,c1) Plankton. Phytoplankton Counting Techniques.		

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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.)	Periphyton Counting	SMEWW 10300 C.1 Periphyton. Sample Analysis.
		Nekton	SMEWW 10600 D.1 Fishes. Analysis of Collections.
		Zooplankton Phytoplankton	SMEWW 10900 Identification of aquatic organisms.
		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 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 (Field collection + Lab Testing)	Detection of Salmonella spp.	UNE-EN-ISO 19250.8.1, 8.2.2, 8.3, 8.4, 8.5, 9. Water quality - Detection of Salmonella spp.
	Sediments (marine, epicontinental and estuarine) (Field collection + Lab Testing)	Benthic Macroinvertebrates Counting	SMEWW 10500 C.2 Benthic Macroinvertebrates. Sampling Processing and Analysis.
	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

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
ENVIRONMENTAL – MICROBIOLOGY (cont'd.)	Swabbing of Living and Inert Surfaces (Field collection + Lab Testing) (cont'd.)	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 6579:2002 (Erratum 2003)
		Detection of Salmonella spp (cont'd.)	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 6888-1:1999/A1:2003 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, 5.2.2.1 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 11290-1:1997/A1:2005 Detection of Listeria Monocytogenes
FOOD-ORGANIC-PESTICIDES	Fruits, Vegetables, Nuts, Cereal & Dried Fruit, Oils/Fatty Matrices	2,4 D ,Ortofenil Fenol (OPP), Acetacolor, Acrinatrina, Alacloro, 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,	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.)	Clorpirifos Metil, Clorprofam, Clortal Dimetil, Cyhalotrin-L, DDD-pp + DDT-op, Diazinon, Diclobenilo, Diclorán, Dicofol, Dieldrin (SP), Difenilamina, Difenconazol, 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, Flucitrinato, Fonofos, Fosazón, 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, Pentacloroanisól, Pentaclorobenceno, Permetrina, Pirazofos, Piridabén, Piridafention, Pirifeno, Pirimetanil, Pirimicarb (SP), Pirimifos Etil, Pirimifos Metil, Piriproxifén, Procimidona, Profenofós, Profluralin, Propargita, Propizamida, Protiofós, Quinalfós, Quintoceno, Simazina, Tebuconazol, Tebufenpirad, Tecnaceno, Teflutrin, Terbacil, Terbutilazina, Terbutrin, Tetraconazol, Tetradifón, Tetrametrina, Tiometon, Tolclofos Metil, Transflutrin, Triadimenol (SP), Triazofos, Trifluralina, Vinclozolina (SP), 2,4-DDD, 2,4-DDE, 4,4-Diclorobenzofenona, Ametrina, Buprofezin, Carbosulfan, Clorbenzilato, Clorfenson, Clormefos, Clortalonil, Clortoluron, Clozolinato, DEET, Deltametrina, Diafentiuon, Diclobutazol, Diclofention, Dicrotofos, Endrin, EPNC, Etrimfos,	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.)	Fenclofos, 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, Epoxiconazol, Espinetoram, Espinosad, Espirodiclofeno, Espiromesifeno, Espirotetramat (SP), Espiroxamina, Etiofencarb, Etiprol, Etofenprox, Etoxazol, Famoxadona, Fenamidona, Fenamifos (SP), Fenbuconazol, Fenhexamida, Fenmedifan, Fenmedifan, Fenpiroximato, Fenpropidin (SP), Fenpropimorfo, Fensulfotión, 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,	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.)	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), Tiaclopid, 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, 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, Espirotetramat- Cis-ketohidroxi, Espirotetramate-Enol-Glucoside, Espirotetramate-Monohidroxi, Etiofencarb sulfóxido, Ethirimol, Etoxiquina, Fenbutatín Óxido, Fenobucarb, Fenpirazamina, Fipronil (SP), Flzasulfuron, Fluacinam, Flubendiamida, Flumioxazina, Formetanato, Fosmet (SP), Haloxyfop-2- Ethoxyetil,	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.)	Indaziflam, Metamidofos, Metiocarb sulfona, Metiocarb sulfóxido, Orizalin, Pentopirad, Pimetrocina, Piridato, Promecarb, Rimsulfuron, Saflufenacil, Sulfoxaflor, Terbufos sulfona, Terbufos sulfóxido, Tiobencarb, Tiociclam, Toliifluanida (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 <sub>2</sub> )	PEC-032 Determination of Dithiocarbamates through Spectrophotometric ultraviolet visible spectrophotometry.
	Fruits and Vegetables	Ethephon	PE-652 Ethephon Residues in Fruits and Vegetables by LC/MS-MS.
	Fruits, Vegetables, Grains and Cereals	Fosetil; Clorato; Etefon; Perclorato; Acido Fosfónico + Sales; Fosetil-Al(Suma).	PE-690  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

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	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.
FOOD-MICROBIOLOGY	Food, fish flour	Total Coliform Count	AOAC991.14 Total Coliform Count
		Yeast and Mold	FDA BAM Ch 18, B.1 Enumeration of Yeast and Mold – Dilution Plating Technique. Spread-plate Method
		<i>Salmonella spp</i>	ISO 6579-1 Detection of Salmonella spp. Horizontal Method for the Detection of Salmonella spp. 37°C
		<i>Staphylococcus aureus</i> and others	ISO 6888-1/A1  Coagulase Positive Staphylococci ( <i>Staphylococcus aureus</i> and others). Technique using Baird-Parker Agar Medium. 37°C
		Bacillus cereus presumptive	ISO 7932  Horizontal method for the enumeration of presumptive Bacillus cereus – Colony-count technique at 30°C
		<i>Escherichia coli</i>	ISO 16649-2

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FOOD-MICROBIOLOGY (cont'd.)	Food, fish flour cont'd.)	<i>Escherichia coli</i> (cont'd.)	Microbiology of food and animal feeding stuffs – Horizontal method for the enumeration of beta-glucuronidase-positive <i>Escherichia coli</i> – Part 2: Colony-count technique at 44 degrees C using 5-bromo-4-chloro-3-indolyl beta-D-glucuronide
		Colony Count Techniques at 30°C, Horizontal Method for the Enumerations of Microorganisms	UNE-EN ISO 4833-1 Colony Count Techniques at 30°C, Horizontal Method for the Enumerations of Microorganisms
		<i>Listeria Monocytogenes</i>	UNE-EN ISO 11290-1 Detection and Enumeration of <i>Listeria Monocytogenes</i> . Part 1: Detection Method
	Food and Processed Food, fish flour	<i>Escherichia coli</i>	ICSMF. 2nd Edition. Vol 1, Part II. Coliforms: NMP Method 1. Fecal Coliforms Method 1. <i>Escherichia coli</i> : 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	<i>Listeria monocytogenes</i>	AOAC Official Method 2013.11. <i>Listeria monocytogenes</i> in a Variety of Foods. VIDAS® <i>Listeria monocytogenes</i> Xpress (LMX) Method (Validated).
		<i>Salmonella</i> spp	AOAC Official Method 2013.01. <i>Salmonella</i> in a Variety of Foods VIDAS® UP <i>Salmonella</i> (SPT) Method. (Validated)
		Total Coliform Count	AOAC RI Performance Tested Method N.º 060702 (Validated) - TEMPO

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FOOD-MICROBIOLOGY (cont'd.)	Fruits, Vegetables, Cereals, fish flour (cont'd.)	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.
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 ICP- OES
		Chloride	PE-336 Ammonium, Chloride, TON and Alkalinity by flow analyzer segmented continued.
		Dry Matter	PEC-022 Determination of moisture and dry matter.
		Initial Weight, Final Weight	PEC-022 Determination of moisture and dry matter.
	Fruits Fruits (cont'd.)	Total Nitrogen Total Nitrogen (cont'd.)	PE-130 / PEC-034 Determination of Dumas Nitrogen.
		Total Calcium	PE -2079 Determination of fractions of Calcium in plant tissues.

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AGRONOMIC – INORGANIC (cont'd.)	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 Pasta 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 ICP- OES
Bicarbonate		PEC-001/PEC-011 Saturated Pasta Extract (EPS) Alcalinity in Water	
Determination of % base saturation (elements of change)		PEC-020 Determination of % base saturation (elements of change)	
Residue (Calculation)		PEC-037 Residue (Calculation)	
RAS RAS (cont'd.)	PEC-040 Determination of the adsorption relationship of sodium (R.A.S.) by Saturated Pasta Extract (EPS) in agricultural soil RAS		



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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  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	PE-4006 Metals in Minerals by Plasma Emission Spectrophotometry (ICP / OES)
		Gold and Silver	PE-4007 / PE-4008 Sample Preparation Fire Test / Determination of Au and Ag By Spectrophotometry of Atomic Absorption
		Copper	PE-4009 Cooper in Bullons. Volumetric Methods

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MINING – GEOCHEM (cont'd.)	Rock, Rock Chip, Drill Core, Soil, Sediment, Sample Pulp, Samples Minerals (cont'd.)	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 <sub>2</sub> SO <sub>4</sub> 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. 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	PE 4406 Leinz Sequential Extraction for Separation of Metals In Samples Solid.

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MINING – GEOCHEM (cont'd.)	Rock, Rock Chip, Drill Core, Soil, Sediment, Sample Pulp, Samples Minerals (cont'd.)	extracted at earlier stages as silicate resistant phases.	
		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 fusion with Sodium Peroxide