

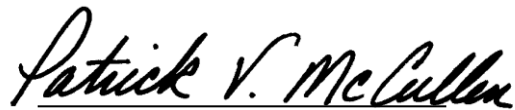
International Accreditation Service  
**CERTIFICATE OF ACCREDITATION**

*This is to signify that*

**AGQ PERÚ SAC**  
AV SANTA ROSA 511  
LA PERLA  
CALLAO  
PERU

Testing Laboratory TL-502

has met the requirements of the IAS Accreditation Criteria for Testing Laboratories (AC89), has demonstrated compliance with ISO/IEC Standard 17025:2005, *General requirements for the competence of testing and calibration laboratories*, and has been accredited, commencing August 22, 2015, for the test methods listed in the approved scope of accreditation.



Patrick V. McCullen  
Vice President, Chief Technical Officer



C. P. Ramani, P.E.  
President



*(see attached scope of accreditation for fields of testing and accredited test methods)*

Print Date: 8/27/2015

*This accreditation certificate supersedes any IAS accreditation certificate bearing an earlier date. The certificate becomes invalid upon suspension, cancellation or revocation of accreditation.  
See the IAS Accreditation Listings on the web at [www.iasonline.org](http://www.iasonline.org) for current accreditation information, or contact IAS directly at (562) 364-8201.*

Page 1 of 15

International Accreditation Service

# SCOPE OF ACCREDITATION

AGQ PERÚ SAC TL-502

AGQ PERÚ SAC  
Av Santa Rosa 511  
La Perla  
Callao  
Peru

Karina Soncco  
Quality Manager  
+51 1 7102700

FIELDS OF TESTING	MATERIAL	DETERMINANTS	METHOD REFERENCE
Environmental – Organic	Natural Water, Drinking Water, Saline Water, Process Water and Wastes Water.	C5-C10, C10-C28, C28-C40	EPA Method 8015 C (TPHs)  Total Petroleum Hydrocarbons Non-Halogenated Organics using GC-FID  Method 5021A (F1) Volatile organic compounds in various sample matrices using equilibrium headspace analysis.  Method 3510 C (F2 y F3) Separatory funnel liquid-liquid extraction.
		Alachlor, Aldrin, Ametrina, Atrazina, Benalaxil, Ciproconazol, Clodanifop PE (Propargil Ester), Clordano cis, Clordano trans, Clordecona, Clorpirifos etil, Clortal-dimetil, DDD-pp, DDT-Op, DDT-Pp, Diazinon, Diclorvos-triclorfon, Dicolfol, Dieldrin, Diflufenican, Dimetoato Endosulfan-alfa, Endosulfan-beta, Endosulfan-Sulfato, Endrin, Endrin-Aldehido, Endrin-Cetona, EPTC, Etion, Etoprofos, Fenamifos, Flusilazol, Hch-Alfa, Hch-Beta, Hch-Delta, Heptachloro, Heptachloro-Epoxido, Hexaclorobenceno, Isodrin, Lindano(Hch-Gamma), Malation, Metalaxil, Metidation Metoxicloro, Metribuzina, Miclobutanilo, Mirex, Molinate, Naftaleno, Oxifluorfen, Paration-Etil, Paration-Metil, Pendimetalina, Pentaclorobenceno, Piridaben, Pirimetanil, Prometrina, Propazina, Propizamida, Simazina, Sime-trin, Terbutilazina, Terbutrina, Tetradifon, Trietazina, Trifluralin, Vinclozolina	EPA Method 8270 D ( RP) Residues Pesticides off Organochlorine Phosphate and Other  Semi-volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

August 22, 2015  
Commencement Date



*C. P. Ramani*  
C. P. Ramani, P.E.  
President

Print Date: 10/17/2016

Page 2 of 15

This accreditation certificate supersedes any IAS accreditation certificate bearing an earlier date. The certificate becomes invalid upon suspension, cancellation or revocation of accreditation. See the IAS Accreditation Listings on the web at [www.iasonline.org](http://www.iasonline.org) for current accreditation information, or contact IAS directly at (562) 364-8201.

International Accreditation Service

# SCOPE OF ACCREDITATION

AGQ PERÚ SAC TL-502

FIELDS OF TESTING	MATERIAL	DETERMINANTS	METHOD REFERENCE
Environmental – Organic (continued)	Natural Water, Drinking Water, Saline Water, Process Water and Wastes Water.	PCB 101, PCB 118, PCB 138, PCB 153, PCB 180, PCB 28, PCB 52, PCB's Suma (Calculate)	EPA Method 8270 D ( PCB s)  <b>Polychlorinated Biphenyls</b>  Semi-volatile Organic compounds by gas chromatography/mass spectrometry (GC/MS)
		Acenafteno, Acenaftileno, Antraceno, Benzo-a-Antraceno, Benzo-a-Pireno, Benzo-b-Fluoranteno, Benzo-e-Pireno, Benzo-k-Fluoranteno, Criseno, Dibenzo-a,h-Antraceno, Fenantreno, Fluoranteno, Fluoreno, Indeno, Pireno	EPA Method 8270 D (PAHs)  Polycyclic Aromatic Hydrocarbons  Semi-volatile Organic Compounds  by Gas Chromatography/Mass Spectrometry (GC/MS)
		1,1,1,2-tetracloroetano 1,1,1-tricloroetano 1,1,2,2-tetracloroetano SPCC, 1,1dicloroetano SPCC, 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 CCC, 1,2-trans- dicloroetano, 1,3,5-trimetilbenceno, 1,3-cis- dicloropropeno, 1,3diclorobenceno, 1,3-trans-dicloropropeno, 1,4-diclorobenceno, 1-1-2 tricloroetano, Benceno, Bromodiclorometano, Bromoformo, Clorobenceno SPCC, Clorodibromometano, Cloroformo, Estireno, Etilbenceno CCC, Hexacloro-1,3-butadieno, Isopropilbenceno, m,p-Xileno, Naftaleno, N-Butilbenceno, N-Propilbenceno, O-Xileno, p-Isopropiltolueno, Ter-butilbenceno, Tetracloroetano, Tetracloruro de carbon, Tolueno CCC, Tricloroetano(1,1,2)	EPA Method 8260C (VOC's)  Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)
		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)

August 22, 2015  
Commencement Date



*C. P. Ramani*  
C. P. Ramani, P.E.  
President

Print Date: 10/17/2016

Page 3 of 15

This accreditation certificate supersedes any IAS accreditation certificate bearing an earlier date. The certificate becomes invalid upon suspension, cancellation or revocation of accreditation. See the IAS Accreditation Listings on the web at [www.iasonline.org](http://www.iasonline.org) for current accreditation information, or contact IAS directly at (562) 364-8201.

International Accreditation Service

# SCOPE OF ACCREDITATION

AGQ PERÚ SAC TL-502

FIELDS OF TESTING	MATERIAL	DETERMINANTS	METHOD REFERENCE
Environmental – Organic (continued)	Natural Water, Drinking Water, Saline Water, Process Water and Wastes Water.	Total Petroleum Hydrocarbons (calculate)  C10 – C40 Suma C5- C40 Suma	PP-210 Total Petroleum Hydrocarbons Calculated In Water And Soils. Reference EPA 8015 C
	Soils and Sediments	C5-C10, C10-C28, C28-C40	EPA Method 8015 C (TPHs)  Total Petroleum Hydrocarbons  Non-Halogenated Organics using GC-FID  Method 5021A (F1) Volatile organic compounds in various sample matrices using equilibrium headspace analysis.  Method 3546: microwave extraction
		Alachlor, Aldrin, Ametrina, Atrazina, Benalaxil, Cipermetrina, Ciproconazol, Clodanifop PE (Propargil Ester), Clordano cis, Clordano, trans-Clordecona, Clorfenvinfos, Clorpirifos, Etil Clortal-Dimetil, DDD-pp, DDE-pp, DDT-op, DDT-pp, Diazinon, Diclorvos-Triclorfon, Dicofol, Dieldrin, Diflufenican, Dimetoato, Endosulfan, -alfa, Endosulfan-beta, Endosulfan-Sulfato, Endrin, Endrin Aldehido Endrin Cetona, EPTC, Etion, Etoprofos, Fenamifos, Flusilazol, HCH-alfa, HCH-beta, HCH-delta, Heptachloro, Heptachloro-Epoxido, Hexaclorobenceno, Isodrin, Lindano (HCH-gamma), Metalacloro Metalaxil, Metidation, Metoxicloro Metribuzina, Miclobutanilo, Mirex, Molinate, Naftaleno, Oxifluorfen, Paration-Etil, Paration-Metil, Pendimetalina, Pentaclorobenceno, Pirimetanil, Prometrina, Propazina, Propizamida, Simazina, Simetrin, Terbutilazina, Terbutrina, Tetradifon, Trietazina, Trifluralin, Vinclozolina	EPA Method 8270 D (RP)  Residues Pesticides off Organochlorine Phosphate and Other  Semi-volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

August 22, 2015  
Commencement Date



*C. P. Ramani*  
C. P. Ramani, P.E.  
President

Print Date: 10/17/2016

Page 4 of 15

*This accreditation certificate supersedes any IAS accreditation certificate bearing an earlier date. The certificate becomes invalid upon suspension, cancellation or revocation of accreditation. See the IAS Accreditation Listings on the web at [www.iasonline.org](http://www.iasonline.org) for current accreditation information, or contact IAS directly at (562) 364-8201.*

International Accreditation Service

# SCOPE OF ACCREDITATION

AGQ PERÚ SAC TL-502

FIELDS OF TESTING	MATERIAL	DETERMINANTS	METHOD REFERENCE
Environmental – Organic (continued)	Soils and Sediments	PCB 101, PCB 118, PCB 138, PCB 153, PCB 180, PCB 28, PCB 52, PCB's Suma (Calculate)	EPA Method 8270D (PCB s)  <b>Polychlorinated Biphenyls</b>  Semi-volatile Organic compounds by gas chromatography/mass spectrometry (GC/MS)
		Acenafteno, Acenaftileno, Antraceno Benzo-a-Antraceno, Benzo-a-Pireno, Benzo-b-Fluoranteno, Benzo-e-Pireno, Benzo-k-Fluoranteno, Criseno, Fenantreno, Fluoranteno, Fluoreno, Pireno	EPA Method 8270 D (PAHs)  Polycyclic Aromatic Hydrocarbons  Semi-volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)
		1,1,1,2-tetracloroetano 1,1,1- tricloroetano 1,1,2,2-tetracloroetano SPCC, 1,1dicloroetano SPCC, 1,2,3- triclوروبenceno 1,2,4- trimetilbenceno, 1,2,4-triclوروبenceno, 1,2-cis- dicloroetano, 1,2-diclorobenceno, 1,2- dicloroetano, 1,2-dicloropropano CCC, 1,2-trans- dicloroetano, 1,3,5- trimetilbenceno, 1,3-cis- dicloropropeno, 1,3diclorobenceno, 1,3-trans- dicloropropeno, 1,4-diclorobenceno, 1-1- 2 tricloroetano, Benceno, Bromodiclorometano, Bromoformo, Clorobenceno SPCC, Clorodibromometano, Cloroformo, Estireno, Etilbenceno CCC, Hexacloro- 1,3-butadieno, Isopropilbenceno, m,p- Xileno, Naftaleno, N-Butilbenceno, N- Propilbenceno, O-Xileno, p- Isopropiltolueno, Ter-butilbenceno, Tetracloroetano, Tetracloruro de carbon, Tolueno CCC, Tricloroetano(1,1,2)	EPA Method 8260 C( VOC's)  Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)
		Total Petroleum Hydrocarbons (calculate)  C10 – C40 Suma C5- C40 Suma	PP-210 Total Petroleum Hydrocarbons Calculated In Water And Soils Reference EPA 8015 C

August 22, 2015  
Commencement Date



*C. P. Ramani*  
C. P. Ramani, P.E.  
President

Print Date: 10/17/2016

Page 5 of 15

*This accreditation certificate supersedes any IAS accreditation certificate bearing an earlier date. The certificate becomes invalid upon suspension, cancellation or revocation of accreditation. See the IAS Accreditation Listings on the web at [www.iasonline.org](http://www.iasonline.org) for current accreditation information, or contact IAS directly at (562) 364-8201.*

International Accreditation Service

# SCOPE OF ACCREDITATION

AGQ PERÚ SAC TL-502

FIELDS OF TESTING	MATERIAL	DETERMINANTS	METHOD REFERENCE	
Environmental – Organic (continued)	Air	HCT (hexano)	ASTM 3687  Analysis of Organic Compound Vapors Collected by the Activated Charcoal Tube Adsorption Method	
		VOCs (Benceno)	ASTM 3687  Analysis of Organic Compound Vapors Collected by the Activated Charcoal Tube Adsorption Method	
Environmental – Inorganic	Natural Water, Drinking Water, Saline Water (validate), Process Water and Wastes Water.	Dissolved – Ag, Al, As, Ba, Be, Cd, Co, Cr, Cu, Hg, Mn, Mo, Ni, Pb, Sb, Se, Th, Ti, U, V, Zn  Add Elements. B, Bi, Ca, Ce, Fe, K, Li, Mg, Na, P, Sn, Sr, Ti, W (Validate)  Total – Ag, Al, As, Ba, Be, Cd, Co, Cr, Cu, Hg, Mn, Mo, Ni, Pb, Sb, Se, Th, Ti, 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)	
		Natural Water, Drinking Water, Saline Water, Process Water and Wastes Water and Waters.	Dissolved: 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.  Total: 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.	EPA Method 200.7  Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma-atomic Emission Spectrometry
		Natural Water, Drinking Water, Saline Water, Process Water and Wastes Water.	Cyanide Free	SMEWW 4500-CN <sup>-</sup> J,E  Cyanide. Cyanogen Chloride. Colorimetric Method
		Phosphorus as Phosphates	SMEWW 4500-P B, E Phosphorus- Sample Preparation and Ascorbic Acid Method	

August 22, 2015  
Commencement Date



*C. P. Ramani*  
C. P. Ramani, P.E.  
President

Print Date: 10/17/2016

Page 6 of 15

*This accreditation certificate supersedes any IAS accreditation certificate bearing an earlier date. The certificate becomes invalid upon suspension, cancellation or revocation of accreditation. See the IAS Accreditation Listings on the web at [www.iasonline.org](http://www.iasonline.org) for current accreditation information, or contact IAS directly at (562) 364-8201.*

International Accreditation Service

# SCOPE OF ACCREDITATION

AGQ PERÚ SAC TL-502

FIELDS OF TESTING	MATERIAL	DETERMINANTS	METHOD REFERENCE
Environmental – Inorganic (continued)	Natural Water, Drinking Water, Saline Water, Process Water and Wastes Water.	Hydrogen Sulfide	SMEWW 4500-S <sub>2</sub> <sup>-</sup> G,H  Sulfide Ion Selective Electrode Method. Calculation of Un-ionized Hydrogen Sulfide
		Hg	UNE EN ISO 17852  Hg by Fluorescence
	Natural Waters, Wastewaters, Drinking Waters, Saline Waters, Process Waters and Waters	Total Nitrogen Calculated	PE-335 Calculated Total Nitrogen In Water
		N-NO <sub>3</sub> + N-NO <sub>2</sub> + N <sub>2</sub> Kjendahl	
		Acidity	SMEWW-2310 B
		Alkalinity: Titration Method	SMEWW 2320 B
		Bicarbonate: Titration Method	SMEWW 2320 B
		Carbonate: Titration Method	SMEWW 2320 B
		Cyanide, Cyanide Selective Electrode Method. Weak Acid Dissociable Cyanide.	SMEWW 4500-CN F E L
		Total Cyanide After Distillations-Cyanide-Selective Electrode Method	SMEWW 4500 CN-C,F
		Chloride: Argentometric Method	SMEWW 4500-CI B
		Color: Spectrophotometric - Single Wavelength method (proposed)	SMEWW 2120 C
		Biochemical Oxygen Demand (BOD) 5-Day BOD Test	SMEWW 5210 B
		Chemical Oxygen Demand (COD), Closet reflux, Colorimetric Method	SMEWW 5220 D
		Surfactants: Anionic Surfactants as MBAS	SMEWW 5540 C
		Hardness, EDTA Titrimetric Method	SMEWW 2340 C
		Phenols: Cleanup Procedure Chloroform Extraction Method. Direct Photometric Method	SMEWW 5530 -B,C,D
		Fluoride: Preliminary Distillation Step. Ion Selective Electrode Method	SMEWW 4500-F B,C
		Phosphorus: Sample preparation Ascorbic Acid Method	SMEWW 4500 P-B,E
		Nitrogen (Nitrate): Nitrate Electrode method	SMEWW 4500 NO <sub>3</sub> D
		Nitrogen (Nitrite): Colorimetric Method	SMEWW 4500 NO <sub>2</sub> -B
		Nitrogen (organic): Semi micro Kjeldahl Method	SMEWW 4500 -N <sub>org</sub> -C
pH Value: Electrometric Method	SM EWW 4500 H <sup>+</sup> B		
Solids: Settable Solids	SMEWW 2540 F		

August 22, 2015  
Commencement Date



*C. P. Ramani*  
C. P. Ramani, P.E.  
President

Print Date: 10/17/2016

Page 7 of 15

This accreditation certificate supersedes any IAS accreditation certificate bearing an earlier date. The certificate becomes invalid upon suspension, cancellation or revocation of accreditation. See the IAS Accreditation Listings on the web at [www.iasonline.org](http://www.iasonline.org) for current accreditation information, or contact IAS directly at (562) 364-8201.

International Accreditation Service

# SCOPE OF ACCREDITATION

AGQ PERÚ SAC TL-502

FIELDS OF TESTING	MATERIAL	DETERMINANTS	METHOD REFERENCE
Environmental – Inorganic (continued)	Natural Water, Drinking Water, Saline Water, Process Water and Wastes Water.	Solids: Total Solids dried at 103 a 105 °C	SMEWW 2540 B
		Solids: Total Dissolved Solids dried at 180 °C	SMEWW 2540 C
		Sulfate: Turbidimetric Methods	SMEWW 4500- SO4 2-E
		Nitrogen (Nitrate)	SMEWW 4500- NO3 -B
	Soils and Sediments	Ag, Al, As, Ba, Be, Cd, Co, Cr, Cu, Hg, Mn, Mo, Ni, Pb, Sb, Se,Th, TI, U, V, Zn  Add Elements: B, Ca, Ce, Fe, K, Li, Mg, Na, P, Sn, Sr, Ti, W -( Validated)  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, Ti, V, Zn.  Add Element: S (validate)	EPA Method 200.8  Determination of Trace Elements in Waters and Wastes by Inductively Coupled Plasma - Mass Spectrometry (ICP-MS)
			EPA Method 200.7  Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma-atomic Emission Spectrometry
			Moisture Content
		Cyanide Free	EPA Method 9013-a / SM 4500 CN, f  Cyanide Extraction Procedure for Solids and Oils
		Chromium VI	PP-205  Talanta 74 (2008) 736–740 (modified)  Rapid Leaching of Cr (VI) in Soil with Na3PO4 in the Determination of Hexavalent Chromium by Inductively Coupled Plasma-atomic Emission Spectrometry (ICP-OES)
		Mercury by Vapor Cold	EPA 200.7/ PP-208  Atomic Fluorescence spectrometry

August 22, 2015  
Commencement Date



*C. P. Ramani*  
C. P. Ramani, P.E.  
President

Print Date: 10/17/2016

Page 8 of 15

This accreditation certificate supersedes any IAS accreditation certificate bearing an earlier date. The certificate becomes invalid upon suspension, cancellation or revocation of accreditation. See the IAS Accreditation Listings on the web at [www.iasonline.org](http://www.iasonline.org) for current accreditation information, or contact IAS directly at (562) 364-8201.



International Accreditation Service

# SCOPE OF ACCREDITATION

AGQ PERÚ SAC TL-502

FIELDS OF TESTING	MATERIAL	DETERMINANTS	METHOD REFERENCE
Environmental – Inorganic (continued)	Soils and Sediments	pH (1:1)	PEC-001 Determination of PH
		Conductivity (1:1)	PEC-002 Determination of Electrical Conductivity
	Air	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)
		NO2	ASTM D 1607 - 91(2011)  Standard Test Method for Nitrogen Dioxide Content of the Atmosphere (Griess-Saltzman Reaction)
		SO2	EPA 40 CFR- Chapter I - Title 40 - Appendix A to Part 50. 2010  Reference Method for the Determination of Sulfur Dioxide in the Atmosphere (Pararosaniline Method)
Environmental – Microbiology	Natural Water, Drinking Water, Saline Water, Process Water and Wastes Water.	Colony Count by Inoculation in a Nutrient Agar Culture Medium at 22°C and 36°C	ISO 6222
		Escherichia coli and Coliform Bacteria	ISO 9308-1:/AC.4.3,5.2,5.3, 8.3
		Fecal coliform in water (Filtration)	PE-403 Fecal Coliforms In Waters (Filtration)
		Fecal coliform – Fermentation Technique (NMP)	SMEWW 9221 B. 2, 3, 4a (1,3,4), 4b
		Total coliform – Fermentation Technique (NMP)	SMEWW 9221 E.1
		Escherichia coli using Fluorogenic Substrate	SMEWW 9221 F
		Detection of Pathogenic Bacteria - Salmonella	SMEWW 9260 B, 2.d., 4.a, c, 6.c,e,7,8.
		Detection of Pathogenic Bacteria - Vibrio	SMEWW 9260 H, 2.d,3.d. 1, 6.b, 7 excepto uso antisuero O139

August 22, 2015  
Commencement Date



*C. P. Ramani*  
C. P. Ramani, P.E.  
President

Print Date: 10/17/2016

Page 9 of 15

This accreditation certificate supersedes any IAS accreditation certificate bearing an earlier date. The certificate becomes invalid upon suspension, cancellation or revocation of accreditation. See the IAS Accreditation Listings on the web at [www.iasonline.org](http://www.iasonline.org) for current accreditation information, or contact IAS directly at (562) 364-8201.

# SCOPE OF ACCREDITATION

AGQ PERÚ SAC TL-502

FIELDS OF TESTING	MATERIAL	DETERMINANTS	METHOD REFERENCE
<b>Environmental – Microbiology</b> (continued)	Natural Waters, Wastewaters, Drinking Waters, Saline Waters, Process Waters and Waters	Phytoplankton Counting	SMEWW 10200 F, items: F.2.a, F.2.b y F.2.c.1
		Identification of aquatic organisms: Phytoplankton	SMEWW 10900
		Identification of aquatic organisms: Zooplankton	SMEWW 0900
		Benthic Macroinvertebrates	SMEWW10500 C.2
		Plankton, Zooplankton Counting	SMEWW 10200 G
		Periphyton	SMEWW 10300 C, Items 1 y 2
		Nekton	SMEWW 10600 D, Items 1
		Fecal Enterococcus	SMEWW 9230B
		Heterotrophic Plate Count	SMEWW 9215B
		Helminth eggs	PP-301 Determination of Helminthes And Protozoan Parasites
		Parasitology and Protozoology	PP-301 Determination of Helminthes And Protozoan Parasites
Giardia Duodenale	PP-301 Determination of Helminthes And Protozoan Parasites		
<b>Enviromental – Inorganic + Sampling</b>	Air	PM10 High Volume	NTP 900.030  PPI-505 Sampling  Air quality. Reference Method for the Determination of Respirable Particulate Matter as PM10 in the Atmosphere (High Volume)
		CO	PP-202  PPI-504 Sampling  Carbon Monoxide
		O3	PP-201  PPI-502 Sampling Determination of Ozone (O3) on Air Quality
		H2S	PP-203 PPI-503 Sampling  Determination of Hydrogen Sulfide (H2S) In Atmosphere
		O2, CO, CO2, SO2, NO, NO2 and NOX	PPI-506 Sampling and Determinations

August 22, 2015  
Commencement Date



*C. P. Ramani*  
C. P. Ramani, P.E.  
President

Print Date: 10/17/2016

Page 10 of 15

*This accreditation certificate supersedes any IAS accreditation certificate bearing an earlier date. The certificate becomes invalid upon suspension, cancellation or revocation of accreditation. See the IAS Accreditation Listings on the web at [www.iasonline.org](http://www.iasonline.org) for current accreditation information, or contact IAS directly at (562) 364-8201.*

# SCOPE OF ACCREDITATION

AGQ PERÚ SAC TL-502

FIELDS OF TESTING	MATERIAL	DETERMINANTS	METHOD REFERENCE
<b>Environmental – Inorganic + Sampling</b> (continued)	Natural Water, Drinking Water, Saline Water, Process Water and Wastes Water.	pH in situ	PPI-202 Sampling SMEWW 4500-h, b  pH Value. Electrometric Method in situ
		Conductivity in Situ	PPI-203 Sampling SMEWW 2510 b  Conductivity. Laboratory Method in situ
		Temperature in situ	PPI-204 Sampling SMEWW 2550 b  Temperature. Laboratory and Field Methods in situ
		Conductivity Oxygen, dissolved in situ	PPI- 205 Sampling EPA 360.1  Oxygen, Dissolved (Membrane Electrode) in situ
		Free and Total Chlorine In situ.	PPI-206 Sampling Method-8021 Free Chlorine, Method-8167 total Chlorine
<b>Mining – Geochem</b>	Rock, Rock Chip, Drill Core, Soil, Sediment, Sample Pulp, samples Minerals	Sample Preparations	PE-4017, Drying, Crushing, Pulverized, Sieve
		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 by ICP-OES- 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 by ICP-OES - 4 Acid Digestion
		Gold and Silver	PE- 4008, AAS analysis and PE-4007 Fire Assay
		Cu, Pb, Fe, Zn y Ag	PE 4026, Determination of Metals by Atomic Absorption Spectrophotometry
		Copper soluble H2SO4	PE 4030, Soluble Copper in Sulfuric Acid by Atomic Absorption

August 22, 2015  
Commencement Date



*C. P. Ramani*  
C. P. Ramani, P.E.  
President

Print Date: 10/17/2016

Page 11 of 15

*This accreditation certificate supersedes any IAS accreditation certificate bearing an earlier date. The certificate becomes invalid upon suspension, cancellation or revocation of accreditation. See the IAS Accreditation Listings on the web at [www.iasonline.org](http://www.iasonline.org) for current accreditation information, or contact IAS directly at (562) 364-8201.*

International Accreditation Service

# SCOPE OF ACCREDITATION

AGQ PERÚ SAC TL-502

FIELDS OF TESTING	MATERIAL	DETERMINANTS	METHOD REFERENCE
Mining – Geochem (continued)	Rock, Rock Chip, Drill Core, Soil, Sediment, Sample Pulp, samples Minerals	Metal present in water soluble	PE 4406, Sequential Extraction Method for Separation of Metals on Mining Waste
		Interchangeable ions	
		Metal associated with carbonates	
		Metal associated with manganese oxides and amorphous iron (Fe, Mn Oxam)	
		Metal bound to crystalline iron oxides (Fe Oxycryst)	
		Metals in sulfides	
		Remaining metal not extracted at earlier stages as silicate resistant phases	
	Rock, Rock Chip, Drill Core	Specific Gravity	PE 4029, Specific Gravity in Minerals
	Rock, Rock Chip, Drill Core, Soil, Sediment, Sample Pulp, samples Minerals	Neutralization Potencial	PE-4402, Neutralization Potential (NP)
		Maximum Potencial Acidity	PE-4407, Maximum Potential Acidity (MPA)
		Net Neutralizing Potential	PE-4407, Net Neutralizing Potential (NNP)
		Fizz Rating	PE-4409, Fizz Rating
		Total S	PE-4408, Elemental Analyzers
		Total Sulphate	PE-4005, Gravimetric Methods
		Elemental S	PE-4004, Gravimetric Methods
		Copper	PE-4009, Volumetric Methods
		Zinc	PE-4010, Volumetric Methods
Lead		PE-4011, Volumetric Methods	
Iron		PE-4012, Volumetric Methods	
Total Sulphide	PE-4016, Calculation Methods		
pH	PE-4413 Neto Acid Generation (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-4401 - EPA Method 1311  Toxicity Characteristic Leaching Procedure (TCLP)		
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)		
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)		

August 22, 2015  
Commencement Date



*C. P. Ramani*  
C. P. Ramani, P.E.  
President

Print Date: 10/17/2016

Page 12 of 15

*This accreditation certificate supersedes any IAS accreditation certificate bearing an earlier date. The certificate becomes invalid upon suspension, cancellation or revocation of accreditation. See the IAS Accreditation Listings on the web at [www.iasonline.org](http://www.iasonline.org) for current accreditation information, or contact IAS directly at (562) 364-8201.*

International Accreditation Service

# SCOPE OF ACCREDITATION

AGQ PERÚ SAC TL-502

FIELDS OF TESTING	MATERIAL	DETERMINANTS	METHOD REFERENCE
Mining – Geochem (continued)	Rock, Rock Chip, Drill Core, Soil, Sediment, Sample Pulp, samples Minerals	Neutralization Potential Lawrence	PE-4403, Neutralization Potential Lawrence
		pH of pasta	PE-4416
Food – Organic – Pesticides	Fruits, Vegetables, Nuts, Cereal & Dried Fruit, Oils/Fatty Matrices	Acefato, Acetoclor, Acrinatrina, Alacloro, Aldrin, Amitraz Atrazina, Azinfos Etil, Azinfos Metil, Benalaxil, Benfluralin, Bifenazato, Bifenilo, Bifentrin, Bitertanol, Bromofos Methyl, Bromopropilato, Bupirimato, Buprofezin, Captan, Carbaril I, Carbaril II, Carbaril, Carbofenotion, Carbosulfan, Chinometionato, Ciflutrin, Cipermetrina, Ciproconazol, Ciprodinil, Clorbenzilat, Clordane, Clorfenapir, Clorfenvinfos, Cloropropilato, Clorpirifos, Clorprofam, Clortal-Dimetil, Clortalonil, Clortoluron, DDD-pp + DDT-pp, DDE-pp, DDT-op, Deltametrina, Diafenturion, Diclobenil, Diclofention, Diclofluanida, Dicloran, Diclorvos, Dicofof, Dicrotofos, Dieldrin, Difenilamina, Difenconazol, Diflufenican, Dimetoato, Diniconazol, Dinobuton, Disulfoton sulfone, Disulfoton sulfoxide, Disulfoton, Ditalimfos, Diuron, Endosulfan I, Endosulfan sulfato, Endrin, Etalfluralin, Etiofencarb, Etion, Etofumesato, Etoprofos, Etoxiquina, Etridiazol, Etrimfos, Fenamifos, Fenarimol, Fenazaquin, Fenitrotion, Fenoxicarb, Fenpropatrin, Fensulfuton, Fention, Fentoato, Fenvalerato+ Esfenvalerato, Fluazifop-Butil, Flucitrinato, Fludioxonil, Fluquinconazol, Flusilazol, Flutriafol, Fluvalinato tau, Folpet, Fonofos, Fosmet, Heptenofos, Hexaclorobenceno, Hexaclorobutadieno, Hexaconazol, Imazalil, Iprodiona, Iprovalicarb, Isazofos, Isofenfos Metil, Isofenfos, Kresoxim Metil, Lambda- Cihalotrin, Lindano, Malation, Mecarbam, Mepronil, Metacrifos, Metalaxil, Metamidofos, Metazachlor, Metidation, Metil, Metiocarb, Metoxiclor, Metribuzina, Mevinfos, Miclobutanil, Mirex, Molinato, Napropamida, Nuarimol, Ofurace, OPP, Oxadiazon, Oxadixil, Oxifluorfen, Paclobutrazol, Paration Etil, Paration Metil, Penconazol, Pendimetalina, Pentacloroanilina, Pentacloroanisol,	PE-614, Determination of Pesticide Residue using MiniLuke and Quecher by GC - MS/MS

August 22, 2015  
Commencement Date



*C. P. Ramani*  
C. P. Ramani, P.E.  
President

Print Date: 10/17/2016

Page 13 of 15

*This accreditation certificate supersedes any IAS accreditation certificate bearing an earlier date. The certificate becomes invalid upon suspension, cancellation or revocation of accreditation. See the IAS Accreditation Listings on the web at [www.iasonline.org](http://www.iasonline.org) for current accreditation information, or contact IAS directly at (562) 364-8201.*

# SCOPE OF ACCREDITATION

AGQ PERÚ SAC TL-502

FIELDS OF TESTING	MATERIAL	DETERMINANTS	METHOD REFERENCE
Food – Organic – Pesticides (continued)	Fruits, Vegetables, Nuts, Cereal & Dried Fruit, Oils/Fatty Matrices	Pentachlorobenceno, Permetrina, Pirazofos, Piridaben, Piridafention, Pirifeno, Pirimetanil, Pirimicarb, Pirimifos Etil, Pirimifos, Metil, Piriproxifen, Procloraz, Procloraz, Profam, Profenofos, Profluralin, Prometrina, Propargita, Propiconazol, Propizamida, Protiofos, Quinalfos, Quinometionato, Quintozene, Simazina, Sulfotep, Tebuconazol, Tebufenpirad, Tecnazen, Teflutrin, Terbacil, Terbufos, Terbutilazina, Terbutrina, Tetraclorvinfos, Tetraconazol, Tetradifon, Tetrametrina, Tiabendazol LC-MS, Tiometon, Tolclofos metil, Tolilfluanida, Transflutrin, Triadimefon, Triadimenol, Triazofos, Triciclazole, Triclorfon, Trifluralin, Uniconazol-P, Vinclozolina, Zoxamida	PE-614, Determination of Pesticide Residue using MiniLuke and Quecher by GC - MS/MS
	Fruits, Vegetables, Nuts, Cereal & Dried Fruit, Oils/Fatty Matrices	Abamectina, Acetamiprid, Aclonifen, Aldicarb, Aldicarb Sulfona, Aldicarb Sulfoxido, Azoxistrobin, Bendiocarb, Benomilo-Carbendazima, Bentazone, Bentiovalicarb, Boscalid, Bromacilo, Bromoxinil, Bromuconazol, Butoxicarboxim, Cadusafos, Captafol, Carbofuran, Chloridazon, Ciazofamida, Cicloxidin, Cimoxanilo, Ciromazina, Cletodim, Clofentezina, Clopyralid, Clorantraniliprole, Clothianidin, Demeton- S-Metil, Demeton-S-Metil Sulfoxido, Desmedifan, Diclorimid, Diclorprop, Dietofencarb, Dimetoato, Dimetomorf, Dinocap, Dodemorph, Dodine, Emamectin Benzoato, Espinosad A+D, Espiroidiclofen, Etiprol, Etofenprox, Etoxazol, Famoxadona, Fenamidona, Fenbuconazol, Fenhexamida, Fenmedifan, Fenpropimorf, Fipronil, Flazasulfuron, Flonicamid, Fluacinan, Flubendiamida, Flufenoxuron, Fluometuron, Fluopicolid, Fluotrimizole, Fluratiocarb, Flutalonil, Forato, Forato Sulfona, Forato Sulfoxido, Forclorfenuron, Formetanato, Fostiazato, Hexaflumuron, Hexitiazox, Hymexazol, I Imazamox, Imazamox, Imidacloprid, Indoxacarb, Ioxinil, Isocarbofos, Isoproturon, Isoxaben, Lenacilo, Linuron,	

August 22, 2015  
Commencement Date



*C. P. Ramani*  
C. P. Ramani, P.E.  
President

Print Date: 10/17/2016

Page 14 of 15

This accreditation certificate supersedes any IAS accreditation certificate bearing an earlier date. The certificate becomes invalid upon suspension, cancellation or revocation of accreditation. See the IAS Accreditation Listings on the web at [www.iasonline.org](http://www.iasonline.org) for current accreditation information, or contact IAS directly at (562) 364-8201.

# SCOPE OF ACCREDITATION

AGQ PERÚ SAC TL-502

FIELDS OF TESTING	MATERIAL	DETERMINANTS	METHOD REFERENCE
<b>Food – Organic – Pesticides</b> (continued)	Fruits, Vegetables, Nuts, Cereal & Dried Fruit, Oils/Fatty Matrices	Lufenuron, Mepanipirin, Meptil Dinocap, Meptyl Dinocap, Metaflumizona, Metamitrona, Metiltiofanato, Metolaclor, Metolcarb, Metomilo, Metoxuron, Monocrofos, Monolinuron, Nicosulfuron, Nitenpiram, Ometoato, Oxadiargil, Oxamilo, Pencicuron, Picoxistrobin, Pimetrozina, Piridato, Propaquizafop, Propoxur, Proquinazid, Prosulfocarb, Quinclorac, Quinmerac, Quinoxifen, Quizalofap Ethil, Rinsulfuron, Rotenona, Spinetoram, Spinosin A+D, Spirotetramat, Spiroxamina, Sulcotriona, Tebufenocida, Teflubenzuron, Thiadizuron, Thiociclam, Tiabendazol, Tiacloprid, Tiametoxan, Tiodicarb Tridemorf, Trifloxistrobin, Triflumizol, Triflumuron, Triforina	PE-618, Determination of Pesticide Residue using MiniLuke and Quecher by LC - MS/MS
<b>Food – Organic</b>	Fish & Hydrobiological	Hystamine	PE-516, Determination of Residues of Hystamine by LC-MS/MS Chromatography
	Fish & Hydrobiological	Dithiocarbamates (as CS <sub>2</sub> )	PEC-032 Determination of Dithiocarbomates through Spectrophotometric ultraviolet visible spectrophotometry.
	Fruit and Vegetables High Water and Low Fat	Quaternary Ammonium	PE-655, Determining Quaternary Ammonium Compounds by Chromatography
<b>Food – Inorganic</b>	Fruits and vegetables /Fish and Hydrobiological	Multi Element Analysis (Hg, As, Cr, Cd, Sn, Pb, Cu, Ni, V, Fe, Zn, Mn)	PC 230 Determination of base metal by ICP/OES
<b>Food – Microbiology</b>	Food	Colony Count Techniques at 30°C, Horizontal Method for the Enumerations of Microorganisms	ISO 4833, 5.2.2.1
	Food	Detection of Salmonella spp. Horizontal Method for the Detection of Salmonella spp. 37°C	ISO 6579
	Food	Coagulase Positive Staphylococci. Technique using Baird-Parker Agar Medium. 37°C	ISO 6888-1, 9.2.1
	Food	Detection and Enumeration of Listeria Monocytogenes. Part 1: Detection Method	ISO 11290-1
	Food	Microbiology of food and animal feeding stuffs – Horizontal method for the enumeration of beta-glucuronidase-positive Escherichia coli – Part 2: Colony-count technique at 44 degrees C using 5-bromo-4-chloro-3-indolyl beta-D-glucuronide	ISO 16649-2
	Food	Enumeration of Yeast and Mold – Dilution Plating Technique. Spread-plate Method	FDA BAM Ch 18, B.1,



*C. P. Ramani*  
C. P. Ramani, P.E.  
President

August 22, 2015  
Commencement Date

Print Date: 10/17/2016

Page 15 of 15

This accreditation certificate supersedes any IAS accreditation certificate bearing an earlier date. The certificate becomes invalid upon suspension, cancellation or revocation of accreditation. See the IAS Accreditation Listings on the web at [www.iasonline.org](http://www.iasonline.org) for current accreditation information, or contact IAS directly at (562) 364-8201.