

# SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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## SERVICIOS ANALITICOS GENERALES S.A.C.

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*Accredited to ISO/IEC 17025:2017*

*Effective Date April 6, 2021*

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
ENVIRONMENTAL - CHEMISTRY ORGANIC	Water Wastewater, Natural Water, Water for human use and consumption, Saline Water and Process Water  (Sampling & Analysis)	<b>Volatile Organic Compounds (VOC's)</b>  <i>1,1-Dichloroethene, Dichloromethane, Trans-1,2-Dichloroethylene, 1,1-Dichloroethane, 2,2-Dichloropropane, Cis-1,2-Dichloroethylene, Bromochloromethane, 1,1,1-Trichlorethane, 1,1-Dichloropropene, Carbon Tetrachloride, 1,2-Dichloroethane, trichloroethylene, 1,2-Dichloropropane, Dibromomethane, Cis-1,3-Dichloropropene, Trans-1,3-Dichloropropene, 1,1,2-Trichloroethane, 1,3-Dichloropropane, tetrachloroethylene, 1,2-Dibromoethane, Chlorobenzene, 1,1,1,2-Tetrachloroethane, Styrene, Cumene, 1,1,2,2-Tetrachloroethane, 1,2,3-Trichloropropane, n-Propylbenzene, Bromobenzene, 1,3,5-Trimethylbenzene, 2-Chlorotoluene, 4-Chlorotoluene, Tert-Butylbenzene, 1,2,4-Trimethylbenzene, Sec-Butylbenzene, p-Isopropyltoluene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, n-Butylbenzene, 1,2-</i>	Method 8260D – Volatile Organic Compounds by Gas Chromatography /Mass Spectrometry (GC/MS) Revision 4, June 2018

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ENVIRONMENTAL - CHEMISTRY ORGANIC (cont'd.)	Water Wastewater, Natural Water, Water for human use and consumption, Saline Water and Process Water  (Sampling & Analysis) (cont'd.)	<i>Dichlorobenzene, 1,2-Dibromo-3-chloropropane, 1,2,4-Trichlorobenzene, Hexachlorobutadiene, Naphthalene, 1,2,3-Trichlorobenzene, Chloroform, Bromodichloromethane, Dibromochloromethane, Bromoform.</i>	Method 8260D – Volatile Organic Compounds by Gas Chromatography /Mass Spectrometry (GC/MS) Revision 4, June 2018 (cont'd.)
		<b>BTEX</b> <i>Benzene, Toluene, Ethylbenzene, m-Xylene, p-Xylene, o-Xylene</i>	Method 8260D – Volatile Organic Compounds by Gas Chromatography /Mass Spectrometry (GC/MS) Revision 4, June 2018
		<b>Trihalomethanes</b> <i>Chloroform, Bromodichloromethane, Dibromochloromethane, Bromoform</i>	Method 8260D – Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) Revision 4, June 2018.
		<b>Total Petroleum Hydrocarbons (TPH)</b> Range: <i>C8-C40 C8-C28 C28-C40 C28-C40</i>	EPA 8015 C. Nonhalogenated Organics by Gas Chromatography. Rev 3 / February 2007.
	Wastewater, Natural Water, Water for human use and consumption and Saline Water  (Sampling & Analysis)	<b>Carbamate: Aldicarb</b>	Method 200310 (Validated), Referenced in EPA Method 8270E, Rev 06. Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS). 2018
		<b>Total Petroleum Hydrocarbons (C10-C40) Diesel Range</b> <i>DRO (C10-C28), Referenced in DS N ° 031-2010-SA: Dissolved or emulsified hydrocarbon; mineral oil.</i>	EPA 8015 C. Nonhalogenated Organics by Gas Chromatography. Rev 3 / February 2007
		<b>PCBs</b>	EPA Method 8270E, Rev 06. Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS). 2018.
	Soil, Sediments and Sludges	<b>Volatile Organic Compounds (VOC's)</b>	Method 8260D – Volatile Organic Compounds by Gas

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ENVIRONMENTAL - CHEMISTRY ORGANIC (cont'd.)	Soil, Sediments and Sludges (cont'd.)	<i>Trichloroethylene, Tetrachloroethylene</i>	Chromatography/Mass Spectrometry (GC/MS) Revision 4, June 2018.
		<b>BTEX</b> <i>Benzene, Toluene, Ethylbenzene, m-Xylene, p-Xylene, o-Xylene.</i>	Method 8260D – Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) Revision 4, June 2018.
		<b>Total Petroleum Hydrocarbons (TPH)</b> C6-C10 <b>Hydrocarbon fraction</b> F1 (C <sub>6</sub> -C <sub>10</sub> )	EPA 8015 C. Nonhalogenated Organics by Gas Chromatography. Rev 3 / February 2007.
		<b>PCB</b> <i>PCB 28, PCB 52, PCB 101, PCB 118, PCB 138, PCB 153, PCB 180</i> <b>Sum of 7 indicator PCBs</b> <i>PCB 28, PCB 52, PCB 101, PCB 118, PCB 138, PCB 153, PCB 180</i>	EPA Method 8270E: Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS). Revision 6, June 2018.
		<b>Total Petroleum Hydrocarbons (TPH): HYDROCARBON FRACTION (C5-C10)</b>	EPA 8015 C. Nonhalogenated Organics by Gas Chromatography. Rev 3 / February 2007.
Air (Sampling & Analysis)	<b>Benzene</b>  <b>Volatile Organic Compounds (VOC's)</b> <i>2-chloro-1,3-butadiene, cis-1,2-Dichloroethene, trans-1,2-Dichloroethene, 2,2-Dichloropropane, Bromochloromethane / Chlorobromomethane, Chloroform, Tetrahydrofuran, 1,1,1-trichloroethane / Methylchloroform, 1,2-Dichloroethane, 1,1-Dichloropropene, Benzene, Carbon Tetrachloride, Trichloroethylene, 1,2-Dichloropropane, Dibromomethane, 1,4-Dioxane, Methyl, Bromodichloromethane, cis-1,3-Dichloropropene, 1,2,3-</i>	ASTM D3686 – 13 & ASTM D3687-19. Standard Practice for Sampling Atmospheres to Collect Organic Compound Vapors (Activated Charcoal Tube Adsorption Method) / ASTM D3687-19 Standard Test Method for Analysis of Organic Compound Vapors Collected by the Activated Charcoal Tube Adsorption Method	

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ENVIRONMENTAL - CHEMISTRY ORGANIC (cont'd.)	Air  (Sampling & Analysis) (cont'd.)	<i>Trichloropropane, trans-1,3-Dichloropropene, Toluene, 1,1,2-Trichloroethane, Ethyl, 1,3-Dichloropropane, Dibromochloromethane, Tetrachloroethylene, 1,2-Dibromoethane, Chlorobenzene, 1,1,1,2-Tetrachloroethane, Ethylbenzene, m-Xylene, p-Xylene, p-Xylene, Styrene, Bromoform, cis-1,4-Dichloro-2-butene, 1,1,2,2-Tetrachloroethane, trans-1,4-dichloro-2-butene, Isopropylbenzene, Bromobenzene, 2-Chlorotoluene, n-Propylbenzene, 4-Chlorotoluene, 4-Chlorotoluene, 1,3,5-Trimethylbenzene, Tert-Butylbenzene, 1,2,4-Trimethylbenzene, 1,2,4-Trimethylbenzene, 1,3-Dichlorobenzene, Sec-Butylbenzene, 1,4-Dichlorobenzene, p-Isopropyltoluene, 1,2-Dichlorobenzene, n-Butylbenzene, Nitrobenzene, 1,2-Dibromo-3-chloropropane, 1,2,4-Trichlorobenzene, Naphthalene, Hexachlorobutadiene, 1,2,3-Trichlorobenzene, Ciclohexano, Clorobromometano, Metilciclohexano, Metilcloroformo, n-heptano, n-hexano, n-octano, metilacrilato</i>	ASTM D3686 – 13 & ASTM D3687-19. Standard Practice for Sampling Atmospheres to Collect Organic Compound Vapors (Activated Charcoal Tube Adsorption Method) / Standard Test Method for Analysis of Organic Compound Vapors Collected by the Activated Charcoal Tube Adsorption Method (cont'd.)
		<b>Benzene (C<sub>6</sub>H<sub>6</sub>), Sulfur dioxide (SO<sub>2</sub>), Nitrogen dioxide, Ozone (O<sub>3</sub>), Carbon monoxide (CO)</b>	UNE-EN 13528-1:2003 and UNE-EN 13528-2:2003. Ambient air quality - Diffusive samplers for the determination of concentrations of gases and vapours: Requirements and

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ENVIRONMENTAL - CHEMISTRY ORGANIC (cont'd.)	Air  (Sampling & Analysis) (cont'd.)	<b>Benzene (C<sub>6</sub>H<sub>6</sub>), Sulfur dioxide (SO<sub>2</sub>), Nitrogen dioxide, Ozone (O<sub>3</sub>), Carbon monoxide (CO)</b> (cont'd.)	test methods: Part 1- General requirements, -Part 2 - Specific requirements and test methods / UNE-EN 13528-3:2004. Part 3: Guide to selection, use and maintenance.  NTP 900.036:2017 ENVIRONMENTAL QUALITY MONITORING. Air quality. Passive diffusion samplers for the determination of gas and vapour concentration. Requirements and test methods. Part 1: General requirements. 2nd Edition
		<b>Benzene (C<sub>6</sub>H<sub>6</sub>)</b>	UNE-EN14662-2:2006. Ambient air quality - Standard method for measurement of benzene concentrations - Part 2: Pumped sampling followed by solvent desorption and gas chromatography
		<b>Total Hydrocarbons (HT) expressed as Hexane</b>	ASTM D3687-19 Standard Test Method for Analysis of Organic Compound Vapors Collected by the Activated Charcoal Tube Adsorption Method.
	Air (Analysis)	<b>Benzene (C<sub>6</sub>H<sub>6</sub>)</b>	UNE-EN14662-2:2006. Ambient air quality - Standard method for measurement of benzene concentrations - Part 2: Pumped sampling followed by solvent desorption and gas chromatography. Except sampling
		<b>Benzene.</b> <b>Volatile Organic Compounds (VOC's):</b> <i>2-chloro-1,3-butadiene, cis-1,2-Dichloroethene, trans-1,2-Dichloroethene, 2,2-Dichloropropane, Bromochloromethane / Chlorobromomethane, Chloroform,</i>	ASTM D3687-19 Standard Test Method for Analysis of Organic Compound Vapors Collected by the Activated Charcoal Tube Adsorption Method

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ENVIRONMENTAL - CHEMISTRY ORGANIC (cont'd.)	Air (Analysis) (cont'd.)	<p><i>Tetrahydrofuran, 1,1,1-trichloroethane / Methylchloroform, 1,2-Dichloroethane, 1,1-Dichloropropene, Benzene, Carbon Tetrachloride, Trichloroethylene, 1,2-Dichloropropane, Dibromomethane, 1,4-Dioxane, Methyl, Bromodichloromethane, cis-1,3-Dichloropropene, 1,2,3-Trichloropropane, trans-1,3-Dichloropropene, Toluene, 1,1,2-Trichloroethane, Ethyl, 1,3-Dichloropropane, Dibromochloromethane, Tetrachloroethylene, 1,2-Dibromoethane, Chlorobenzene, 1,1,1,2-Tetrachloroethane, Ethylbenzene, m-Xylene, p-Xylene, p-Xylene, Styrene, Bromoform, cis-1,4-Dichloro-2-butene, 1,1,2,2-Tetrachloroethane, trans-1,4-dichloro-2-butene, Isopropylbenzene, Bromobenzene, 2-Chlorotoluene, n-Propylbenzene, 4-Chlorotoluene, 4-Chlorotoluene, 1,3,5-Trimethylbenzene, Tert-Butylbenzene, 1,2,4-Trimethylbenzene, 1,2,4-Trimethylbenzene, 1,3-Dichlorobenzene, Sec-Butylbenzene, 1,4-Dichlorobenzene, p-Isopropyltoluene, 1,2-Dichlorobenzene, n-Butylbenzene, Nitrobenzene, 1,2-Dibromo-3-chloropropane, 1,2,4-Trichlorobenzene, Naphthalene, Hexachlorobutadiene, 1,2,3-Trichlorobenzene, Cyclohexano,</i></p>	ASTM D3687-19 Standard Test Method for Analysis of Organic Compound Vapors Collected by the Activated Charcoal Tube Adsorption Method (cont'd.)

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ENVIRONMENTAL - CHEMISTRY ORGANIC (cont'd.)		<i>Clorobromometano, Metilciclohexano, Metilcloroformo, n-heptano, n-hexano, n-octano, metilacrilato</i>	
	Air (Field measurement)	<b>Benzene</b> ( $C_6H_6$ )	UNE-EN14662-3:2016 Ambient air - Standard method for the measurement of benzene concentrations - Part 3: Automated pumped sampling within situ gas chromatography
		<b>Total hydrocarbons (THC)</b> <b>Non-methanic Hydrocarbons (NmHC)</b>  <i>Methane</i> ( $CH_4$ )	Method 200228 (Validated) referenced in UNE-EN 12619:2013: Stationary source emissions - Determination of the mass concentration of total gaseous organic carbon - Continuous flame ionisation detector method
	Gaseous Emissions (Sampling & Analysis)	<b>Volatile Organic Compounds (VOC's):</b> <i>Benzene, Trichloroethylene, Toluene, Tetrachloroethylene, Chlorobenzene, Ethylbenzene, m-Xylene, p-Xylene, Styrene, o-Xylene, Bromobenzene, 2-Chlorotoluene, n-Propylbenzene, 4-Chlorotoluene, 1,3,5-Trimethylbenzene, Tert-Butylbenzene, 1,2,4-Trimethylbenzene, 1,3-Dichlorobenzene, Sec-Butylbenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, p-Isopropyltoluene, n-Butylbenzene, 1,2,4-Trichlorobenzene, Naftaleno, 1,2,3-Trichlorobenzene.</i>	EPA-40 CFR, Appendix A, Part 60 Method 18. 2017. Measurement of gaseous organic compound emissions by gas chromatography.
Emission / Stationary Sources (Field measurement)	<b>Determination of non-methane hydrocarbons</b>	EPA-40 CFR, Part 60, Appendix A-7, Method 25. Determination of total gaseous nonmethane organic emissions as carbon. 2017.	

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ENVIRONMENTAL - CHEMISTRY ORGANIC (cont'd.)		<b>Determination of total hydrocarbons / total organic carbon TOC</b>	EPA 40 CFR, Part 60, Appendix A-7, Method 25A. Determination of Total Gaseous Organic Concentration Using a Flame Ionization Analyzer. 2017.
	Biological Tissues (Sampling & Analysis)	<b>Polycyclic aromatic hydrocarbons (PAHs) in plant and animal tissue</b>	Method 200203 Polycyclic Aromatic Hydrocarbons (PAHs) in plant and animal tissue (Validated). Referenced in EPA Method 8270E, Rev 06. Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS).
		<b>Total Petroleum Hydrocarbons (C10-C40) in plant and animal tissue</b>	Method 200210 Total Petroleum Hydrocarbons (C10-C40) in plant and animal tissue. Referenced in EPA Method 8015C Rev.3, Nonhalogenated Organics by Gas Chromatography.
ENVIRONMENTAL - CHEMISTRY INORGANIC	Water, Wastewater, Natural Water, Water for human use and consumption, Saline Water and Process Water  (Sampling & Analysis)	<b>Color, True Color, Apparent Color</b>	SMEWW-APHA-AWWA-WEF. Part 2120 C. Color. Spectrophotometric-Single-Wavelength Method (Proposed). 23rd Ed. 2017
		<b>Acidity</b>	SMEWW-APHA-AWWA-WEF. Part 2310 B. Acidity. Titration Method. 23rd Ed. 2017.
		<b>Bromides (Br-)</b>	SMEWW-APHA-AWWA-WEF. Part 4500-Br B. Bromide. Phenol Red Colorimetric Method. 23rd Ed. 2017
		<b>Fixed and Volatile Solids</b>  <i>Total Sample Dissolved Suspended</i>	SMEWW-APHA-AWWA-WEF. Part 2540 E. Solids. Fixed and Volatile Solids Ignited at 550°C. 23rd Ed. 2017.
		<b>Phosphorus:</b> <i>Total phosphorus, Total reactive phosphorus, Total acid-hydrolyzable phosphorus, Total organic phosphorus, Dissolved phosphorus,</i>	SMEWW-APHA-AWWA-WEF. Phosphorus. Part 4500-P B Sample Preparation. / Part 4500-P E. Ascorbic Acid Method. 23rd Ed. 2017.



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ENVIRONMENTAL - CHEMISTRY INORGANIC (cont'd.)	(Sampling & Analysis) (cont'd.)	<i>Dissolved reactive phosphorus, Dissolved acid-hydrolyzable phosphorus, and Dissolved organic phosphorus.</i>	
		<i>Floatable Material of Anthropogenic Origin</i>	Method 180806. Floatable Material of Anthropogenic Origin (Validated) Referenced in: SMEWW-APHA-AWWA-WEF Part 2530 B. Particulate Floatables. 23rd Ed. 2017.
		<b>Total or dissolved Sulfur</b>	UNE-EN ISO 11885. Water quality - Determination of selected elements by inductively coupled plasma optical emission spectrometry (ICP-OES)
	Wastewater, Natural Water, Water for human use and consumption, Saline Water, Process Water  (Sampling & Analysis)	<b>Alkalinity. Titration Method.</b> <i>Total alkalinity</i>  <i>Partial alkalinity</i>  <i>Alkalinity to carbonate (CO<sub>3</sub><sup>=</sup>)</i> <i>Alcalinidad al carbonato</i>  <i>Alkalinity to bicarbonate (HCO<sub>3</sub><sup>-</sup>)</i>  <i>Alkalinity to hydroxide (OH<sup>-</sup>)</i>	SMEWW-APHA-AWWA-WEF Part 2320-B, 23rd Ed. 2017
		<b>Chlorides</b>	SMEWW-APHA-AWWA-WEF Part 4500-Cl <sup>-</sup> B, 23rd Ed. 2017
		<b>Total hardness</b>	SMEWW-APHA-AWWA-WEF Part 2340 C, 23rd Ed. 2017. Hardness. EDTA Titrimetric Meth
		<b>Calcium hardness</b>  <b>Calcium</b>	SMEWW-APHA-AWWA-WEF Part 3500-Ca B, 23rd Ed. 2017. Calcium. EDTA Titrimetric Method.
		<b>Nitrites Nitrogen</b> <i>NO<sub>2</sub><sup>-</sup>-N</i>  <i>Nitrites NO<sub>2</sub><sup>-</sup></i>	SMEWW-APHA-AWWA-WEF Part 4500-NO <sub>2</sub> <sup>-</sup> B. Nitrogen (Nitrite). Colorimetric Method.

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ENVIRONMENTAL - CHEMISTRY INORGANIC (cont'd.)	Wastewater, Natural Water, Water for human use and consumption, Saline Water, Process Water  (Sampling & Analysis) (cont'd.)	<b>Total nitrogen</b>	SMEWW-APHA-AWWA-WEF Part 4500-N C, 23rd Ed. 2017. Nitrogen. Persulfate Method. Nitrógeno total
		<b>Surfactants (SAAM)</b>	SMEWW-APHA-AWWA-WEF Part 4500-N C, 23rd Ed. 2017. Nitrogen. Persulfate Method. Nitrógeno total
		<b>Silica: SiO<sub>2</sub>, Si-SiO<sub>3</sub>; SiO<sub>2</sub>-SiO<sub>3</sub> Free Silica SiO<sub>2</sub></b>	SMEWW-APHA-AWWA-WEF Part 4500-SiO <sub>2</sub> C. 23rd Ed. 2017. Silica. Molybdosilicate Method.
		<b>Total Dissolved Solids</b>	SMEWW-APHA-AWWA-WEF Part 2540 C, 23rd Ed. 2017. Solids. Total Dissolved Solids Dried at 180°C.
		<b>Total Suspended Solids</b>	SMEWW-APHA-AWWA-WEF Part 2540 D, 23rd Ed. 2017. Solids. Total Suspended Solids Dried at 103-105°C.
		<b>Total Solids</b>	SMEWW-APHA-AWWA-WEF Part 2540 B, 23rd Ed. 2017. Solids. Total Solids Dried at 103-105°C.
		<b>Sulfate</b>	SMEWW-APHA-AWWA-WEF Part 4500 SO <sub>4</sub> <sup>2-</sup> E. 23rd Ed. 2017. Sulfate. Turbidimetric Method.
		<b>Chlorophyll A</b>	SMEWW-APHA-AWWA-WEF Part 10200 H, 23rd Ed. 2017. Plankton. Chlorophyll.
		<b>Hydrogen Sulfide (un-ionized)</b>	SMEWW-APHA-AWWA-WEF Part 4500-S <sub>2</sub> -H. Sulfide. 23rd Ed. 2017. Calculation of Un-ionized Hydrogen sulfide.
		<b>Biochemical Oxygen Demand - Soluble</b>	Method 200105 (Validated), Referenced in SMEWW-APHA-AWWA-WEF Part 5210 B, 23rd Ed. 2017. Biochemical Oxygen Demand (BOD). 5-Day BOD Test.
<b>Chemical Oxygen Demand - Soluble</b>	Method 200106 (Validated), Referenced in SMEWW-APHA-AWWA-WEF Part 5220 D, 23rd Ed. 2017. Chemical Oxygen Demand (COD).		

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ENVIRONMENTAL - CHEMISTRY INORGANIC (cont'd.)	Wastewater, Natural Water, Water for human use and consumption, Saline Water, Process Water  (Sampling & Analysis) (cont'd.)		Closed Reflux, Colorimetric Method.
		<b>Inorganic Anions:</b> Bromide (Br), Chloride (Cl), Fluoride (F), Fluor, Nitrate (NO <sub>3</sub> <sup>-</sup> , NO <sub>3</sub> -N), Nitrite (NO <sub>2</sub> <sup>-</sup> , NO <sub>2</sub> -N), Orthophosphate, (P, PO <sub>4</sub> <sup>-3</sup> ), Sulfate (SO <sub>4</sub> <sup>=</sup> )	EPA Method 300.0:1993 Rev. 2.1. Determination of Inorganic Anions by Ion Chromatography.
		<b>Total Chlorine</b> (field analysis)	SMEWW-APHA-AWWA-WEF Part 4500-Cl G. 23rd Ed. 2017. Chlorine (Residual). DPD Colorimetric Method.
		<b>Oil and Grease</b>	ASTM D7678 – 17. Standard Test Method for Total Oil and Grease (TOG) and Total Petroleum Hydrocarbons (TPH) in Water and Wastewater with Solvent Extraction using Mid-IR Laser Spectroscopy.
(Sampling & Analysis)	Wastewater	<b>Oil and Grease</b>	SMEWW-APHA-AWWA-WEF Part 5520 D, 23rd Ed. 2017. Soxhlet Extraction Method.
		<b>Calculation the:</b> <i>Chemical Demand for readily Biodegradable Oxygen (COD-FB) / Chemical Demand for slowly Biodegradable Oxygen (COD-LB) / Chemical Demand for Soluble non-Biodegradable oxygen (COD-NBS) / Chemical Demand for non-Biodegradable Particulate Oxygen (COD-NBP)</i>	Method 200110 (Validated), Referenciado in: SMEWW-APHA-AWWA-WEF Part 5210 B, 23rd Ed. 2017. Biochemical Oxygen Demand (BOD). 5-Day BOD Test. / SMEWW-APHA-AWWA-WEF Part 5220 D, 23rd Ed. 2017. Chemical Oxygen Demand (COD). Closed Reflux, Colorimetric Method.
(Sampling & Analysis)	Wastewater, Natural Water, Water for human use and consumption and Process Water	<b>Total and Dissolved Metals:</b> <i>Silver, Aluminum, Arsenic, Barium, Beryllium, Cadmium, Cobalt, Chrome, Copper, Mercury, Manganese, Molybdenum, Nickel, Lead, Antimony, Selenium, Thallium, Thorium, Uranium, Vanadium, Zinc</i>	EPA Method 200.8 Revision 5.4 (1994). Determination of trace elements in waters and wastes by Inductively Coupled Plasma - Mass Spectrometry. // Method 190911. Total Metals and Dissolved (Validated), Referenced in EPA Method 200.8. Determination of Trace Elements in Waters and Wastes by Inductively

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ENVIRONMENTAL - CHEMISTRY INORGANIC (cont'd.)		<i>Validated: Lithium, Bismuth, Boron, Sodium, Magnesium, Silicon, Silica, Silicate, Phosphorus, Potassium, Calcium, Titanium, Iron, Gallium, Germanium, Rubidium, Strontium, Zirconium, Niobium, Indium, Tin, Cesium, Lanthanum, Cerium, Terbium, Lutetium, Tantalum, Tungsten, Ytterbium, Hafnium, Tellurium.</i>	Coupled Plasma-Mass Spectrometry. Revision 5.4. 1994.
	Saline Water  (Sampling & Analysis)	<b>Color</b> <i>True Color, Apparent Color</i>	Method 180921. Color in Saline Water (Validated). Referenced in SMEWW-APHA-AWWA-WEF. Part 2120 C. Color. Spectrophotometric-Single-Wavelength Method (Proposed). 23rd Ed. 2017.
		<b>Total and Dissolved Metals</b> <i>Metals:</i> <i>Silver (Ag), Aluminum (Al), Arsenic (As), Boron (B), Barium (Ba), Beryllium (Be), Bismuth (Bi), Cadmium (Cd), Calcium (Ca), Cerium (Ce), Cobalt (Co), Chromium (Cr), Cesium (Cs), Copper (Cu), Iron (Fe), Potassium (K), Lithium (Li), Magnesium (Mg), Manganese (Mn), Mercury (Hg), Molybdenum (Mo), Nickel (Ni), Lead (Pb), Antimony (Sb), Selenium (Se), Strontium (Sr), Thorium (Th), Titanium (Ti), Thallium (Tl), Uranium (U), Vanadium (V), Zinc (Zn).</i>	Method 180810. Total Metals and Dissolved by ICP in Saline Water (Validated). Referenced in EPA Method 200.8. Determination of Trace Elements in Waters and Wastes by Inductively Coupled Plasma-Mass Spectrometry. Revision 5.4. 1994.
	Soils, Sediments and Sludges  (Sampling & Analysis)	<b>Metals:</b> <i>Aluminum (Al), Antimony (Sb), Arsenic (As), Barium (Ba), Boron (B), Beryllium (Be), Cadmium (Cd), Calcium (Ca), Chromium (Cr), Cobalt (Co), Copper (Cu), Iron (Fe), Lead (Pb),</i>	EPA 3050-B (1996) Acid Digestion of Sediments, Sludges, and Soils // SW-846 Method EPA 6010D, Rev. 5, 2018. Inductively Coupled Plasma - Optical Emission Spectrometry (ICP-OES)

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ENVIRONMENTAL - CHEMISTRY INORGANIC (cont'd.)	Soils, Sediments and Sludges  (Sampling & Analysis) (cont'd.)	<i>Lithium (Li), Magnesium (Mg), Manganese (Mn), Mercury (Hg), Molybdenum (Mo), Nickel (Ni), Phosphorus (P), Potassium (K), Selenium (Se), Silica (SiO<sub>2</sub>), Silver (Ag), Sodium (Na), Strontium (Sr), Thallium (Tl), Estaño, Titanium (Ti), Vanadium (V), Zinc (Zn), Thorium (Th), Uranium (U), Tungsten (W)</i>	EPA 3050-B (1996) Acid Digestion of Sediments, Sludges, and Soils // SW-846 Method EPA 6010D, Rev. 5, 2018. Inductively Coupled Plasma - Optical Emission Spectrometry (ICP-OES) (cont'd.)
		<b>Extractable Barium</b>	Alberta Environment 2009. SBN N°978-0-7785-7691-4. Soil Remediation Guidelines for Barite: Environmental Health and Human Health. Sección 6.2.2. Método Analítico para Bario Extraíble / Method EPA 6010D, Rev. 5, 2018. Inductively Coupled Plasma - Optical Emission Spectrometry (ICP-OES).
		<b>True total Barium</b>	Alberta Environment 2009. SBN N°978-0-7785-7691-4. Soil Remediation Guidelines for Barite: Environmental Health and Human Health. Sección 2.2.1. Suelos (Métodos de fusión), 9.1.3 Bario total real / Method EPA 6010D, Rev. 5, 2018. Inductively Coupled Plasma - Optical Emission Spectrometry (ICP-OES).
		<b>Inorganic Anions:</b> <i>Chloride (Cl<sup>-</sup>), Fluoride (F<sup>-</sup>), Nitrate (NO<sub>3</sub><sup>-</sup>, NO<sub>3</sub>-N), Nitrito (NO<sub>2</sub><sup>-</sup>, NO<sub>2</sub>-N), Orthophosphate (P, PO<sub>4</sub>-3), Sulfate (SO<sub>4</sub><sup>=</sup>).</i>	EPA Method 300.0:1993 Rev. 2.1. Determination of Inorganic Anions by Ion Chromatography.
		<b>Total, fixed and volatile solids)</b>  <b>Dry Material</b> <i>According D.S. 015-2017-VIVIENDA for sludge the PTAR.</i>	SMEWW-APHA-AWWA-WEF. Part 2540 G. 23rd Ed. 2017. Total, Fixed, and Volatile Solids and Semisolid Samples

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ENVIRONMENTAL - CHEMISTRY INORGANIC (cont'd.)	Soils, Sediments and Sludges  (Sampling & Analysis) (cont'd.)	<b>Calcination loss: total solids. Dry Material</b>	SMEWW-APHA-AWWA-WEF. Part 2540 G. 23rd Ed. 2017. Total, Fixed, and Volatile Solids and Semisolid Samples
		<b>Calcination loss: total volatile solid</b>  <b>Organic Material</b>  <i>According D.S. 015-2017-VIVIENDA for sludge the PTAR.</i>	SMEWW-APHA-AWWA-WEF. Part 2540 G. 23rd Ed. 2017. Total, Fixed, and Volatile Solids and Semisolid Samples
		<b>Kjeldahl Total Nitrogen</b>	SMEWW-APHA-AWWA-WEF Part 4500-Norg-C, 23rd Ed. 2017. Semi-Micro-Kjeldahl Method.
		<b>Nitrogen from Nitrate (N-NO<sub>3</sub>)</b>	SW-846 Method EPA 9056A, Rev. 1, 2007. Determination of Inorganic Anions by Ion Chromatography
		<b>Conductivity</b>	Method 190820 Conductivity (Validated). Referenced in Official Mexican Standard NOM-021-SEMARNAT-2000 item 7.2.5 Method AS-18. Conductivity measured in the Saturation Extract. Fertility, salinity and soil classification specifications. Studies, sampling and analysis. Organic material.
		<b>Total organic carbon (TOC)</b>	Method 190908 Total organic carbon (Validated). Referenced in Official Mexican Standard NOM-021-SEMARNAT-2000 item 7.1.7, Method AS-07. Fertility, salinity and soil classification specifications. Studies, sampling and analysis. Organic material.
		<b>Free cyanide</b>	EPA Method 9013-A Rev. 2 (2014)// SMEWW-APHA-AWWA-WEF Part 4500-CN - F, 23rd Ed. 2017. Cyanide Extraction procedure for Solids and oils // Cyanide. Selective Electrode Method.

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<b>ENVIRONMENTAL - CHEMISTRY INORGANIC</b> (cont'd.)	Soils, Sediments and Sludges  (Sampling & Analysis) (cont'd.)	<b>Humidity</b>	Official Mexican Standard NOM-021-SEMARNAT-2000 item 7.1.5 AS-05 - Gravimetric Method (December 31, 2002). Fertility, salinity and soil classification specifications, study, sampling and analysis.
		<b>Soluble Salts (dissolved solids)</b>	NTP 339.152: 2002 (revised 2015) SOILS. Standard test method for determining the content of soluble salts in soils and groundwater.
		<b>pH measured in the saturation</b>	Official Mexican Standard NOM-021-SEMARNAT-2000 item 7.1.2 Method AS-02. pH measured in the Saturation Extract. (December 31, 2002). Fertility, salinity and soil classification specifications, study, sampling and analysis
	Soils, Rocks, limestone, quicklime, hydrated lime, clinker, cement raw material  (Sampling & Analysis)	<b>Sulfur Trioxide (SO<sub>3</sub>)</b>	ASTM C25 - 19. Standard Test Methods for Chemical Analysis of Limestone, Quicklime, and Hydrated Lime. Section 23. Sulfur Trioxide.
		Air (Analysis)	<b>Hydrogen Sulfide (H<sub>2</sub>S)</b>
			<b>HIGH VOLUME FILTER METALS:</b> <i>Aluminum, Antimony, Arsenic, Barium, Boron, Beryllium, Bismuth, Cadmium, Calcium, Cerium, Chrome, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium,</i>

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ENVIRONMENTAL - CHEMISTRY INORGANIC (cont'd.)	Air (Analysis) (cont'd.)	<i>Thallium, Tin, Titanium, Vanadium, Zinc.</i> <b>METALS IN LOW VOLUME FILTER (Only Analysis):</b> <i>Silver, Aluminum, Arsenic, Boron, Barium, Beryllium, Bismuth, Calcium, Cadmium, Cerium, Cobalt, Chrome, Copper, Iron, Mercury, Potassium, Lithium, Magnesium, Manganese, Molybdenum, Sodium, Nickel, Phosphorus, Lead, Antimony, Selenium, Tin, Strontium, Titanium, Thallium, Vanadium, Zinc.</i>	SAG-190912 - Referenciado en EPA Compendium IO-3.4 (1999). Determination of Metals in Ambient Particulate Matter using Inductively Coupled Plasma (ICP) Spectroscopy.
	Air (Sampling & Analysis)	<b>Hydrogen Sulfide (H<sub>2</sub>S)</b>	COVENIN 3571:2000. Air quality. Determination of the concentration of Hydrogen Sulfide (H <sub>2</sub> S) in the atmosphere
		<b>Determination of Particulate Matter as PM<sub>2.5</sub> Low Vol.</b>	NTP 900.069:2017. ENVIRONMENTAL QUALITY MONITORING. Air quality. Reference method for the determination of fine particulate matter as PM 2.5 in the atmosphere. 1st Edition 2019-12-29
		<b>Particulate Material PM 2.5 High volume</b>	Method 180925. Determination of particulate material PM 2.5 High volume in the Atmosphere (Validated). Referenced in EPA CFR40 Appendix J. Part 50 Method for the Determination of Particulate Matter as PM <sub>10</sub> in the Atmosphere
		<b>Determination of Particulate Matter as PM<sub>1</sub>.</b>	Method 200118. PM <sub>1</sub> particulate material with type 2.229 selective PM <sub>1</sub> separator (Validated). Referenced in NTP 900.069:2017
		<b>Coarse Fraction or Coarse PM<sub>10</sub> - PM<sub>2.5</sub></b>	Calculation method referenced in NTP 900.030:2018 and NTP 900.069:2017



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ENVIRONMENTAL - CHEMISTRY INORGANIC (cont'd.)	Air (Sampling & Analysis) (cont'd.)	<b>Particulate Matter</b> (PM10; PM2.5)	UNE-EN 16450:2017. Ambient air - Automated measuring systems for the measurement of the concentration of particulate matter (PM10; PM2,5)
		<b>Anions deposited on filters:</b> NO <sub>3</sub> <sup>-</sup> , SO <sub>4</sub> <sup>2-</sup> , Cl <sup>-</sup> , NH <sub>4</sub> <sup>+</sup> , Na <sup>+</sup> , K <sup>+</sup> , Mg <sup>2+</sup> , Ca <sup>2+</sup>	UNE-EN 16913:2018. Ambient air - Standard method for measurement of NO <sub>3</sub> <sup>-</sup> , SO <sub>4</sub> <sup>2-</sup> , Cl <sup>-</sup> , NH <sub>4</sub> <sup>+</sup> , Na <sup>+</sup> , K <sup>+</sup> , Mg <sup>2+</sup> , Ca <sup>2+</sup> in PM <sub>2,5</sub> as deposited on filters
		<b>Total Gaseous Mercury</b> (Sampling and Analysis)	Method 180901. Total Gaseous Mercury in Air Quality (Validated). Referenced in NIOSH 6009, Mercury 1994.
		<b>Nitrogen oxides:</b> NO <sub>x</sub> : NO + NO <sub>2</sub> Nitric Oxide (NO)	Method 201120 Validated – Referenced in Peter O. Warner. Analysis of Air Pollutants, Spanish Ed 1981. Cap. 3, pp. 147-151. Determination of Nitrogen Oxides in Air Quality NO <sub>x</sub> (NO <sub>2</sub> + NO)
		<b>METALS IN HIGH VOLUME FILTER:</b> Silica (SiO <sub>2</sub> )	Method 201010 Validated - Referenced in EPA Compendium IO-3.4. (1999) Determination of Metals in Ambient Particulate Matter using Inductively Coupled Plasma (ICP) Spectroscopy
	Air (field measurement)	<b>Determination of Ozone</b> (O <sub>3</sub> )	EPA CFR 40, Appendix D to Part 50. Measurement Principle and Calibration Procedure for the Measurement of Ozone in the Atmosphere.  NTP 900.034: 2005. Environmental Management. Air Quality Principle of measurement and calibration procedure for the measurement of ozone in the atmosphere.)
		<b>Determination of Ozone</b> (O <sub>3</sub> )	ISO 13964:1998. Air quality - Determination of ozone in

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ENVIRONMENTAL - CHEMISTRY INORGANIC (cont'd.)	Air (field measurement) (cont'd.)		ambient air -Ultraviolet photometric method.
		<b>Determination of Carbon Monoxide (CO)</b>	NTP-ISO 4224:2019 Ambient air. Determination of carbon monoxide. Non-dispersive infrared spectrometry method. 1st Edition 2020
		<b>Determination of Carbon Monoxide (CO)</b>	EPA CFR 40, Appendix C to Part 50. Measurement Principle and Calibration Procedure for the Measurement of Carbon Monoxide in the Atmosphere (Non-Dispersive Infrared Photometry).
		<b>Determination of Nitrogen Dioxide (NO<sub>2</sub>)</b>	EPA CFR 40, Appendix F to Part 50. Measurement Principle and Calibration Procedure for the Measurement of Nitrogen Dioxide in the Atmosphere (Gas Phase Chemiluminescence).  NTP 900.033: 2004. Environmental Management. Air quality. Principle of measurement and calibration procedure for the measurement of nitrogen dioxide in the atmosphere (chemiluminescence of the gas phase).
		<b>Determination of Sulfur Dioxide (SO<sub>2</sub>)</b>	NTP ISO 10498: 2017. Determination of sulfur dioxide. Ultraviolet fluorescence method
		<b>Determination of Hydrogen Sulfide (H<sub>2</sub>S)</b>	Method 180806. Measurement of hydrogen sulfide in air quality (Validated). Referenced in NTP ISO 10498: 2017. Determination of sulfur dioxide. Ultraviolet fluorescence method.
	Gaseous Emissions	<b>Hydrogen Sulfide (H<sub>2</sub>S)/ Total Reduced sulfur (TRS)</b>	EPA 40 CFR, Appendix A-6 to Part 60. Method 16A - Determination of total reduced

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ENVIRONMENTAL - CHEMISTRY INORGANIC (cont'd.)	(Sampling & Analysis)		sulfur emissions from stationary sources (impinger technique). 2017
		<b>Metals:</b> <i>Silver (Ag), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Mercury (Hg), Copper (Cu), Manganese (Mn), Nickel (Ni), Phosphorus (P), Lead (Pb), Antimony (Sb), Selenium (Se), Thallium (Tl), Zinc (Zn).</i>	EPA-40 CFR, Appendix A-8 to Part 60. Method 29. Determination of Metals Emissions from Stationary Sources. 2017
		<b>Metals:</b> <i>Vanadium (V), Iron (Fe), Tin (Sn), Titanium (Ti)</i>	Method 180924 (Validated). Referenced in EPA-40 CFR, Appendix A-8 to Part 60. Method 29. Determination of Metals Emissions from Stationary Sources. 2019.
		<b>Gases</b> <i>NO<sub>x</sub> (NO, NO<sub>2</sub>), CO, O<sub>2</sub></i>	EPA CTM-034. Determination of Oxygen, Carbon Monoxide and Oxides of Nitrogen from Stationary Sources For Periodic Monitoring (Portable Electrochemical Analyzer Procedure) / September 1999.
		<b>Determination of sulfuric acid (H<sub>2</sub>SO<sub>4</sub>) and sulfur dioxide (SO<sub>2</sub>) emissions from stationary sources</b>	EPA 40 CFR, Appendix A-6 to Part 60. Method 8 - Determination of sulfuric acid mist and sulfur dioxide emissions from stationary sources. 2017
		<b>Sulfur dioxide in emissions (SO<sub>2</sub>)</b>	NTP 900.006.2002. ENVIRONMENTAL MANAGEMENT. Atmospheric Emissions. Determination of sulfur dioxide emissions from stationary sources
		<b>Determination of Particulate Matter Emissions from Stationary Sources</b>	-EPA-40 CFR, Appendix A-3 to Part 60. Method 5. Determination of Particulate Matter Emissions from Stationary Sources. 2017.  -NTP 900.005.2001 ENVIRONMENTAL MANAGEMENT Atmospheric

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<b>ENVIRONMENTAL - CHEMISTRY INORGANIC</b> (cont'd.)	Gaseous Emissions  (Sampling & Analysis) (cont'd.)	<b>Determination of Particulate Matter Emissions from Stationary Sources</b> (cont'd.)	Emissions. Determination of particulate matter emissions from stationary sources.  - EPA-40 CFR, Appendix A-1 to Part 60. Method 1- Sample and Velocity Traverses for Stationary Sources. 2017.  -NTP 900.001:2002. ENVIRONMENTAL MANAGEMENT. Atmospheric Emissions. Methods for the determination of transversal sampling points for the measurement of speed in stationary sources.  - EPA-40 CFR, Appendix A-1 to Part 60. Method 1A- Sample and Velocity Traverses for Stationary Sources with Small Stacks or Ducts. 2017.  - EPA-40 CFR, Appendix A-1 to Part 60. Method 2- Determination of Stack Gas Velocity and Volumetric Flow Rate (Type S Pitot Tube). 2017.  -NTP 900.002:2002. ENVIRONMENTAL MANAGEMENT. Atmospheric Emissions. Determination of chimney gas speed and volumetric flow (Type S Pilot Tube).  - EPA-40 CFR, Appendix A-1 to Part 60. Method 2C - Determination of gas Velocity and Volumetric Flow Rate in Small Stacks or Ducts (Standard Pitot Tube). 2017.  - EPA-40 CFR, Appendix A-2 to Part 60. Method 3 - Gas Analysis for the Determination

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ENVIRONMENTAL - CHEMISTRY INORGANIC (cont'd.)	Gaseous Emissions (Sampling & Analysis) (cont'd.)	<b>Determination of Particulate Matter Emissions from Stationary Sources</b> (cont'd.)	of Dry Molecular Weight. 2017. NTP 900.003/A:2002. ENVIRONMENTAL MANAGEMENT. Atmospheric emissions. Determination of oxygen and carbon dioxide concentrations in emissions from stationary sources. Procedure for instrumental analyzer.  - EPA-40 CFR, Appendix A-3 to Part 60. Method 4- Determination of Moisture Content in Stack Gases. 2017.  - NTP 900.004:2002. ENVIRONMENTAL MANAGEMENT. Atmospheric Emissions. Method for determining the moisture content in flue gases
		<b>Nitrogen Oxides (NO<sub>x</sub>), as NO<sub>2</sub>, including: Nitric Oxide (NO) Nitrogen Dioxide (NO<sub>2</sub>)</b>	EPA-40 CFR Part 60, Appendix A. Method 7- Determination of Nitrogen Oxide Emissions from Stationary Sources. 2019.
		<b>Nitrogen Oxides (NO<sub>x</sub>), as NO<sub>2</sub>, including: Nitric Oxide (NO) Nitrogen Dioxide (NO<sub>2</sub>)</b>	NTP 900.007:2002 (Revised 2018). ENVIRONMENTAL MANAGEMENT. Atmospheric emissions. Determination of nitrogen oxide emissions from stationary sources
		<b>Nitrogen Oxides (NO<sub>x</sub>), as NO<sub>2</sub>, including: Nitric Oxide (NO) Nitrogen Dioxide (NO<sub>2</sub>)</b>	EPA-40 CFR Part 60, Appendix A. Method 7C - Determination of Nitrogen Oxide Emissions from Stationary Sources (Alkaline Permanganate / Colorimetric Method). 2017.
		<b>Hydrogen Chloride (HCl)</b>	EPA 40 CFR, Part 60, Appendix A-8, Method 26A. Determination of Hydrogen Halide and Halogen Emissions from Stationary Sources Isokinetic Method. 2019.

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ENVIRONMENTAL - CHEMISTRY INORGANIC (cont'd.)	Gaseous Emissions  (Sampling & Analysis) (cont'd.)	<b>Hydrogen Fluoride (HF)</b>	EPA 40 CFR, Part 60, Appendix A-8, Method 26A. Determination of Hydrogen Halide and Halogen Emissions from Stationary Sources Isokinetic Method. 2019.
		<b>Hydrogen Halides (HX) [HCl, HBr and HF]</b>  <b>Halogens (X<sub>2</sub>) [Cl<sub>2</sub> y Br<sub>2</sub>]</b>	EPA 40 CFR, Part 60, Appendix A-8, Method 26A. Determination of Hydrogen Halide and Halogen Emissions from Stationary Sources Isokinetic Method. 2019.
	Gaseous Emissions  (Field measurement)	<b>Sulfur dioxide in emissions (SO<sub>2</sub>)</b>	EPA-40 CFR, Appendix A-4 to Part 60. Method 6C. Determination of sulfur dioxide emissions from stationary sources (instrumental analyzer procedure). 2017.
		<b>Opacity</b>	Method 191105 Opacity. Referenced in IT-ATM-08.2 Non-standardized measurement methods Bacharach Opacity Measurement. European Regional Development Fund. Desarrollo Regional.
		<b>Carbon Monoxide (CO)</b>	EPA 40 CFR, Appendix A-4 to Part 60, Method 10. Determination of Carbon Monoxide Emissions from Stationary Sources (Instrumental Analyzer Procedure). 2017
		<b>Nitrogen Oxides (NO<sub>x</sub>), as NO<sub>2</sub>, Nitric Oxide (NO) Nitrogen Dioxide (NO<sub>2</sub>)</b>	EPA CTM-022 Detrmination of Nitric Oxide, Nitrogen Dioxide and NO <sub>x</sub> Emissions from Stationary Combustion Sources by electrochemical analyzer. 1995
		<b>NO<sub>x</sub> (NO, NO<sub>2</sub>), CO, O<sub>2</sub></b>	US EPA OTM-38 Periodic Monitoring Method for Determination of Oxygen, Carbon Monoxide and Nitrogen Oxides from Stationary Sources using Portable Gas Analyzers. 2020
		<b>Hydrogen sulfide</b>	Method

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ENVIRONMENTAL - CHEMISTRY INORGANIC (cont'd.)	Gaseous Emissions  (Field measurement) (cont'd.)	<b>Total hydrocarbons</b>	201210 Validated. Referenced in US EPA OTM-38. Determination of Hydrogen sulfide, Total hydrocarbons using Portable Gas Analyzers Equipped with Electrochemical Sensors.
		<b>Carbon Dioxide (CO<sub>2</sub>) Oxygen (O<sub>2</sub>)</b>	NTP 900.003/A:2002. ENVIRONMENTAL MANAGEMENT. Atmospheric emissions. Determination of oxygen and carbon dioxide concentrations in emissions from stationary sources. Procedure for instrumental analyzer
	Vegetable Tissues  (Sampling & Analysis)	<b>Total Metals:</b> <i>Aluminum (Al), Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Calcium (Ca), Chromium (Cr), Cobalt (Co), Copper (Cu), Iron (Fe), Lead (Pb), Lithium (Li), Magnesium (Mg), Manganese (Mn), Mercury (Hg), Molybdenum (Mo), Nickel (Ni), Phosphorus (P), Potassium (K), Selenium (Se), Silver (Ag), Sodium (Na), Strontium (Sr), Thallium (Tl), Uranium (U), Vanadium (V), Zinc (Zn).</i>	EPA Method 200.3, Rev. 1, April. 1991. Metals, Total Recoverable in Biological Tissues / EPA Method 200.7, Rev.4.4. EMMC Version 1994.
Biological Tissues  (Sampling & Analysis)	<b>Total Metals:</b> <i>Aluminum (Al), Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Calcium (Ca), Chromium (Cr), Cobalt (Co), Copper (Cu), Iron (Fe), Lead (Pb), Lithium (Li), Magnesium (Mg), Manganese (Mn), Mercury (Hg), Molybdenum (Mo), Nickel (Ni), Phosphorus (P), Potassium (K), Selenium (Se), Silver (Ag), Sodium (Na), Strontium (Sr),</i>	EPA Method 200.3, Rev. 1, April.1991. Metals, Total Recoverable in Biological Tissues / EPA Method 200.7, Rev.4.4. EMMC Version 1994 EPA Method 200.3, Rev. 1, April.1991. Metals, Total Recoverable in Biological Tissues / EPA Method 200.7, Rev.4.4. EMMC Version 1994 (cont'd.)	

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
		<i>Thallium (Tl), Uranium (U), Vanadium (V), Zinc (Zn).</i>	
<b>OCCUPATIONAL HEALTH &amp; SAFETY - CHEMISTRY ORGANIC</b>	Air (Sampling & Analysis)	<b>Volatile Organic Compounds:</b> <i>2-chloro-1,3-butadiene, cis-1,2-Dichloroethene, trans-1,2-Dichloroethene, 2,2-Dichloropropane, Bromochloromethane / Chlorobromomethane, Chloroform, Tetrahydrofuran, 1,1,1-trichloroethane / Methylchloroform, 1,2-Dichloroethane, 1,1-Dichloropropene, Benzene, Carbon Tetrachloride, Trichloroethylene, 1,2-Dichloropropane, Dibromomethane, 1,4-Dioxane, Methyl, Bromodichloromethane, cis-1,3-Dichloropropene, 1,2,3-Trichloropropane, trans-1,3-Dichloropropene, Toluene, 1,1,2-Trichloroethane, Ethyl, 1,3-Dichloropropane, Dibromochloromethane, Tetrachloroethylene, 1,2-Dibromoethane, Chlorobenzene, 1,1,1,2-Tetrachloroethane, Ethylbenzene, m-Xylene, p-Xylene, p-Xylene, Styrene, Bromoform, cis-1,4-Dichloro-2-butene, 1,1,2,2-Tetrachloroethane, trans-1,4-dichloro-2-butene, Isopropylbenzene, Bromobenzene, 2-Chlorotoluene, n-Propylbenzene, 4-Chlorotoluene, 4-Chlorotoluene,</i>	ASTM D3686 – 13 & ASTM D3687-19. Standard Practice for Sampling Atmospheres to Collect Organic Compound Vapors (Activated Charcoal Tube Adsorption Method) / ASTM D3687-19 Standard Test Method for Analysis of Organic Compound Vapors Collected by the Activated Charcoal Tube Adsorption Method



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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
OCCUPATIONAL HEALTH & SAFETY - CHEMISTRY ORGANIC (cont'd.)	Air (Sampling & Analysis) (cont'd.)	1,3,5-Trimethylbenzene, Tert-Butylbenzene, 1,2,4-Trimethylbenzene, 1,2,4-Trimethylbenzene, 1,3-Dichlorobenzene, Sec-Butylbenzene, 1,4-Dichlorobenzene, p-Isopropyltoluene, 1,2-Dichlorobenzene, n-Butylbenzene, Nitrobenzene, 1,2-Dibromo-3-chloropropane, 1,2,4-Trichlorobenzene, Naphthalene, Hexachlorobutadiene, 1,2,3-Trichlorobenzene, Ciclohexano, Clorobromometano, Metilciclohexano, Metilcloroformo, n-heptano, n-hexano, n-octano, metilacrilato	ASTM D3686 – 13 & ASTM D3687-19. Standard Practice for Sampling Atmospheres to Collect Organic Compound Vapors (Activated Charcoal Tube Adsorption Method) / ASTM D3687-19 Standard Test Method for Analysis of Organic Compound Vapors Collected by the Activated Charcoal Tube Adsorption Method (cont'd.)
	Air (Analysis)	<b>Volatile Organic Compounds:</b> 2-chloro-1,3-butadiene, cis-1,2-Dichloroethene, trans-1,2-Dichloroethene, 2,2-Dichloropropane, Bromochloromethane / Chlorobromomethane, Chloroform, Tetrahydrofuran, 1,1,1-trichloroethane / Methylchloroform, 1,2-Dichloroethane, 1,1-Dichloropropene, Benzene, Carbon Tetrachloride, Trichloroethylene, 1,2-Dichloropropane, Dibromomethane, 1,4-Dioxane, Methyl, Bromodichloromethane, cis-1,3-Dichloropropene, 1,2,3-Trichloropropane, trans-1,3-Dichloropropene, Toluene,	ASTM D3687-19 Standard Test Method for Analysis of Organic Compound Vapors Collected by the Activated Charcoal Tube Adsorption Method  ASTM D3687-19 Standard Test Method for Analysis of Organic Compound Vapors Collected by the Activated Charcoal Tube Adsorption Method (cont'd.)

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OCCUPATIONAL HEALTH & SAFETY - CHEMISTRY ORGANIC (cont'd.)	Air (Analysis) (cont'd.)	1,1,2-Trichloroethane, Ethyl, 1,3-Dichloropropane, Dibromochloromethane, Tetrachloroethylene, 1,2-Dibromoethane, Chlorobenzene, 1,1,1,2-Tetrachloroethane, Ethylbenzene, m-Xylene, p-Xylene, Styrene, Bromoform, cis-1,4-Dichloro-2-butene, 1,1,2,2-Tetrachloroethane, trans-1,4-dichloro-2-butene, Isopropylbenzene, Bromobenzene, 2-Chlorotoluene, n-Propylbenzene, 4-Chlorotoluene, 4-Chlorotoluene, 1,3,5-Trimethylbenzene, Tert-Butylbenzene, 1,2,4-Trimethylbenzene, 1,2,4-Trimethylbenzene, 1,3-Dichlorobenzene, Sec-Butylbenzene, 1,4-Dichlorobenzene, p-Isopropyltoluene, 1,2-Dichlorobenzene, n-Butylbenzene, Nitrobenzene, 1,2-Dibromo-3-chloropropane, 1,2,4-Trichlorobenzene, Naphthalene, Hexachlorobutadiene, 1,2,3-Trichlorobenzene, Cyclohexane, Chlorobromomethane, Methylcyclohexane, Methyl chloroform, n-heptane, n-hexane, n-octane, methyl acrylate	ASTM D3687-19 Standard Test Method for Analysis of Organic Compound Vapors Collected by the Activated Charcoal Tube Adsorption Method (cont'd.)
OCCUPATIONAL HEALTH & SAFETY -	Air (Sampling & Analysis)	<b>Metals:</b> Aluminum, Arsenic, Barium, Beryllium, Calcium,	NIOSH 7301, Issue 1. ELEMENTS by ICP (Aqua Regia Ashing), 2003.

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CHEMISTRY INORGANIC	Air (Sampling & Analysis) (cont'd.)	<i>Cadmium, Cobalt, Chrome, Copper, Iron, Potassium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Lead, Antimony, Selenium, Tin, Strontium, Titanium, Thallium, Vanadium, Zinc, Lanthanum, Lithium, Silver, Tellurium, Tungsten, Zirconium</i>	
		<b>Metals:</b> <i>Aluminum, Arsenic, Barium, Beryllium, Boron, Bismuth, Calcium, Cadmium, Cobalt, Chrome, Copper, Iron, Potassium, Magnesium, Manganese, Molybdenum, Nickel, Sodium, Phosphorus, Lead, Antimony, Selenium, Tin, Strontium, Titanium, Thallium, Vanadium, Zinc, Gallium, Gold, Indium, Tellurium, Palladium, Platinum, Neodymium</i>	NIOSH 7303, Issue 1. ELEMENTS by ICP 7303 (Hot Block/HCl/HNO <sub>3</sub> Digestion), 2003.
		<b>Mercury</b>	NIOSH 6009 Issue 2. Mercurio - 1994 Lectura CVAES
		<b>Hydrofluoric acid</b>	NIOSH 7906. Issue 2, 2014. PARTICULATE FLUORIDES and HYDROFLUORIC ACID 7906 by Ion Chromatography.
		<b>Volatile Acids:</b> <b>Hydrochloric Acid (HCl), Hydrobromic Acid (HBr), Nitric Acid (HNO<sub>3</sub>)</b>	NIOSH 7907. Issue 1, 2014. VOLATILE ACIDS by Ion Chromatography (Hydrogen Chloride, Hydrogen Bromide, Nitric Acid).
		<b>Non Volatile Acids:</b> <b>Sulfuric Acid, Phosphoric Acid</b>	NIOSH 7908. Issue 1, 2014. NON-VOLATILE ACIDS (Sulfuric Acid and Phosphoric Acid).
		<b>Silica Crystalline (SiO<sub>2</sub>) (Sampling and Analysis)</b>	NIOSH 7601. Issue 3, 2003. Silica, Crystalline, by VIS
		<b>Asbestos (Sampling and Analysis)</b>	NIOSH 7400, Issue 2, 1994. Asbestos and Other Fibers by PCM

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<b>OCCUPATIONAL HEALTH &amp; SAFETY - CHEMISTRY INORGANIC</b> (cont'd.)	Air (Analysis)	<b>Metals</b> <i>Aluminum, Arsenic, Barium, Beryllium, Calcium, Cadmium, Cobalt, Chrome, Copper, Iron, Potassium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Lead, Antimony, Selenium, Tin, Strontium, Titanium, Thallium, Vanadium, Zinc, Lanthanum, Lithium, Silver, Tellurium, Tungsten, Zirconium</i>	NIOSH 7301, Issue 1. ELEMENTS by ICP (Aqua Regia Ashing), 2003. Except Sampling.
		<b>Metals</b> <i>Aluminum, Arsenic, Barium, Beryllium, Boron, Bismuth, Calcium, Cadmium, Cobalt, Chrome, Copper, Iron, Potassium, Magnesium, Manganese, Molybdenum, Nickel, Sodium, Phosphorus, Lead, Antimony, Selenium, Tin, Strontium, Titanium, Thallium, Vanadium, Zinc, Gallium, Gold, Indium, Tellurium, Palladium, Platinum, Neodymium</i>	NIOSH 7303, Issue 1. ELEMENTS by ICP 7303 (Hot Block/HCl/HNO3 Digestion), 2003. Except Sampling.
		<b>Silica Crystalline</b> (SiO <sub>2</sub> ) (Only Analysis)	NIOSH 7601. Issue 3, 2003. Silica, Crystalline, by VIS. (EXCEPT SAMPLING).
		<b>Asbestos</b> (Only Analysis)	NIOSH 7400, Issue 2, 1994. Asbestos and Other Fibers by PCM (EXCEPT SAMPLING).
		<b>Determination of filter weight and weight of respirable particles.</b> (Only Analysis)	Method 180910. Determination of weight and weight filter respirable particles (validated) Referenced in NIOSH 0600, Issue 3. Particulates Not Otherwise Regulated, Respirable - 1998 (EXCEPT SAMPLING).
		<b>Determination of weight and weight particle filter totals</b> (inhalable powder) (Only Analysis)	Method 180911. Determination of weight and weight particle filter totals

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<b>OCCUPATIONAL HEALTH &amp; SAFETY - CHEMISTRY INORGANIC</b> (cont'd.)	Air (Analysis) (cont'd.)		(inhalable powder) - (validated). Referenced in NIOSH 0500, Issue 2. Particulates Not Otherwise Regulated, Total - 1994. (EXCEPT SAMPLING).
	Air (Field measurement)	<b>Clean rooms: Particle count</b>	ISO 14644-1: 2015. Clean rooms and local annexes controlled. Part 1. Classification of air cleaning by concentration of particles.
<b>ENVIRONMENTAL-SENSORY</b>	Wastewater, Natural Water, Water for human use and consumption and Saline Water  (Sampling & Analysis)	<b>Odor</b>	SMEWW-APHA-AWWA-WEF 2150 B. 23rd Ed. 2017. Odor. Threshold Odor Test.
	Water for human use and consumption  (Sampling & Analysis)	<b>Flavor</b>	SMEWW-APHA-AWWA-WEF 2160 B. 23rd Ed. 2017. Taste. Flavor Threshold Test (FTT).
<b>ENVIRONMENTAL - MICROBIOLOGY</b>	Wastewater, Natural Water, Water for human use and consumption and Saline Water  (Sampling & Analysis)	<b><u>Microcystin-LR</u></b>	SAG-180917 Rev. 0 (Validated) 2018. Immunoassay method for the quantification of microcystin-LR
		<b>Virus</b> (Somatic Coliphages)	SMEWW-APHA-AWWA-WEF Part 9224 B, 23rd Ed. 2017. Detection of Coliphages. Somatic Coliphage Assay.
		<b>Salmonella</b> <i>Detection of Salmonella spp</i>	UNE-EN ISO 19250: 2013 Water Quality - Detection of Salmonella spp.
		<b>Vibrio cholerae</b>	SMEWW-APHA-AWWA-WEF Part 9260 H, Item 1, 2, 3.d.1, 23rd Ed. 2017. (except for the latex test), 5, 6, 7 (No identification of serogroup O139). Detection of Pathogenic Bacteria. Vibrio
		<b>Fecal Coliform</b> (Multiple-Tube Technique)	SMEWW-APHA-AWWA-WEF Part 9221 E-1, 23rd Ed. 2017. Multiple-Tube Fermentation

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ENVIRONMENTAL - MICROBIOLOGY (cont'd.)	Wastewater, Natural Water, Water for human use and consumption and Saline Water  (Sampling & Analysis) (cont'd.)		Technique for Members of the Coliform Group. Fecal Coliform Procedure.
		<b>Fecal Coliform</b> (Membrane Filter Techniques)	MEWW-APHA-AWWA-WEF Part 9222 D, 23rd Ed. 2017. Membrane Filter Technique for Members of the Coliform Group. Thermotolerant (Fecal) Coliform Membrane Filter Procedure.
		<b>Total Coliform</b> (Membrane Filter Techniques)	SMEWW-APHA-AWWA-WEF Part 9222 B, 23rd Ed. 2017. Membrane Filter Technique for Members of the Coliform Group. Standard Total Coliform Membrane Filter Procedure.
		<b>Total Coliform</b> (Multiple-Tube Technique)	SMEWW-APHA-AWWA-WEF Part 9221 B, 23rd Ed. 2017. Multiple-Tube Fermentation Technique for Members of the Coliform Group. Standard Total Coliform Fermentation Technique.
		<b>Escherichia coli</b> (Multiple-Tube Technique)	MEWW-APHA-AWWA-WEF Part 9221 G. (Item 2), 23rd Ed. 2017. Multiple-Tube Fermentation. Technique for Members of the Coliform Group. Other Escherichia coli Procedures (PROPOSED).
		<b>Escherichia coli</b> (Membrane Filter Techniques)	SMEWW-APHA-AWWA-WEF Part 9222 H. Partitioning E.coli from MF Total Coliform using EC-MUG. Membrane Filter Technique for Members of the Coliform Group.
		<b>Fecal Streptococcus</b> (Membrane Filter Techniques)	SMEWW-APHA-AWWA-WEF Part 9230 C (item 3.c.), 23rd Ed. 2017. Fecal Enterococcus/Streptococcus Groups. Membrane Filter Techniques.
		<b>Fecal Streptococcus</b> (Multiple-Tube Technique)	SMEWW-APHA-AWWA-WEF Part 9230 B, 23rd Ed. 2017. Fecal Enterococcus / Streptococcus Groups. Multiple-Tube Technique.

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ENVIRONMENTAL - MICROBIOLOGY (cont'd.)	Wastewater, Natural Water, Water for human use and consumption and Saline Water  (Sampling & Analysis) (cont'd.)	<b>Fecal Enterococcus</b> ( <i>Membrane Filter Techniques</i> )	SMEWW-APHA-AWWA-WEF Part 9230 C (item 3.c.), 23rd Ed. 2017. Fecal Enterococcus/Streptococcus Groups. Membrane Filter Techniques.
		<b>Fecal Enterococcus</b> ( <i>Multiple-Tube Technique</i> )	SMEWW-APHA-AWWA-WEF Part 9230 B, 23rd Ed. 2017. Fecal Enterococcus / Streptococcus Groups. Multiple-Tube Technique.
		<b>Heterotrophic Bacteria</b> ( <i>Pour Plate Method</i> )	SMEWW-APHA-AWWA-WEF Part 9215B, 23rd Ed. 2017. Heterotrophic Plate Count. Pour Plate Method
	Water for human use and consumption  (Sampling & Analysis)	<b>Pseudomonas aeruginosa</b> ( <i>Detection and enumeration of Pseudomonas aeruginosa</i> )	ISO 16266. Water quality - Detection and enumeration of Pseudomonas aeruginosa - Method by membrane filtration.
		<b>Staphylococcus aureus</b>	SMEWW-APHA-AWWA-WEF Part 9213 B (item 6), 23rd Ed. 2017. Recreational Waters. Swimming Pools. Test for Staphylococci or Staphylococcus
	Soils, Sediments, Sludges and Biosolids  (Sampling & Analysis)	<b>Escherichia coli</b>	EPA Method 1680 Fecal Coliforms in Sewage Sludge (Biosolids) by Multiple-Tube Fermentation using Lauryl Tryptose Broth (LTB) and EC Medium, 2014 // SM Part 9221 G. (item 2), 23rd Ed. 2017. Multiple-Tube Fermentation. Technique for Members of the Coliform Group. Other Escherichia coli Procedures (PROPOSED), 2017.
		<b>Escherichia coli</b> (cont'd.)	
		<b>Salmonella sp.</b>	EPA Method 1682 Method 1682: Salmonella in Sewage Sludge (Biosolids) by Modified Semisolid Rappaport-Vassiliadis (MSRV) Medium, 2006.
		<b>Fecal Coliforms</b>	EPA Method 1680: Fecal Coliforms in Sewage Sludge (Biosolids) by Multiple-Tube Fermentation using Lauryl

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			Tryptose Broth (LTB) and EC Medium, 2014.
OCCUPATIONAL HEALTH & SAFETY - MICROBIOLOGY	Air  (Sampling & Analysis)	<i>Bacterium</i>	NIOSH 0800 BIOAEROSOL SAMPLING (Indoor Air). Culturable organisms: bacteria, fungi, thermophilic actinomycetes.
		<i>Fungi</i>	NIOSH 0800 BIOAEROSOL SAMPLING (Indoor Air). Culturable organisms: bacteria, fungi, thermophilic actinomycetes.
		<i>Aerobics</i>	NIOSH 0800 BIOAEROSOL SAMPLING (Indoor Air). Culturable organisms: bacteria, fungi, thermophilic actinomycetes.
	Living Surfaces Regular and Irregular Inert Surfaces  (Sampling & Analysis)	<i>Mold and yeast count</i>	ICMSF Food Microorganisms. Its meaning and methods of enumeration. P.166-167 2nd Ed. Reprint 2000. Mould and yeast counts. Method of counting molds and yeasts by sowing in plate in the whole medium. RM N°461-2007 MINSA. 8.2; 8.4. Technical Guide for the Microbiological Analysis of Surfaces in contact with Food and Beverages
		<i>Mesophilic Aerobic Count</i>	ISO 4833-1:2013 Microbiology of the food chain -- Horizontal method for the enumeration of microorganisms -- Part 1: Colony count at 30 degrees C by the pour plate technique // RM N°461-2007 MINSA. 8.2; 8.4. Technical Guide for the Microbiological Analysis of Surfaces in Contact with Food and Beverages
		<i>Escherichia coli count</i>	Compendium of Methods for the Microbiological Examination of Foods / APHA. 5th Ed. 2015, Cap. 9, Parte 9.933. Enterobacteriaceae, Coliforms, and Escherichia coli as Quality and Safety



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<b>OCCUPATIONAL HEALTH &amp; SAFETY - MICROBIOLOGY</b> (cont'd.)	Living Surfaces Regular and Irregular Inert Surfaces  (Sampling & Analysis) (cont'd.)		Indicators. VRBA/MUG Method for E.coli and coliforms // RM N°461-2007 MINSA. 8.2; 8.4. Technical Guide for the Microbiological Analysis of Surfaces in Contact with Food and Beverages.
<b>ENVIRONMENTAL - HYDROBIOLOGY</b>	Estuarine Water  (Sampling & Analysis)	<i>Periphyton (Quantitative): Estuary</i>	SMEWW-APHA-AWWA-WEF Part 10300 C.1, 23rd. 2017
<b>ENVIRONMENTAL – PHYSICAL MEASUREMENTS</b>	Wastewater, Natural Water, Water for human use and consumption  (Field measurement)	<i>Flow</i>	ISO 748:2007 Hydrometry – Measurement of liquid flow in open channels using current meters or floats
		<i>Flow</i>	NTP 214.060:2016. WASTEWATER. Sampling protocol for non-domestic wastewater that is discharged into the sewer system- Annex D, Flow measurement methods.
		<i>Transparency</i>	DIN EN ISO 7027-2:2019-06 Water quality - Determination of turbidity - Part 2: Semi-quantitative methods for the assessment of transparency of waters (ISO 7027-2:2019)
	Buildings (Field Measurement)	<i>Vibrations in buildings</i>	DIN 4150-3:2016 Vibrations in buildings – Part 3: Effects on structures
<b>ENVIRONMENTAL – ACOUSTIC</b>	Environmental noise (Field measurement)	<i>Noise Determination of environmental noise</i>	ISO 1996-2:2017(E) Acoustic – Description, Measurement and assessment of environmental noise. Part 2: Determination of sound pressure levels.
<b>ENVIRONMENTAL – CLIMATOLOGY</b>	Meteorological parameters  (Field measurement)	<i>Meteorological parameters: Environmental temperature, RH, Atmospheric pressure, Wind speed, Direction of the wind, Precipitation</i>	ASTM D5741-96(2017). Standard Practice for Characterizing Surface Wind Using a Wind Vane and Rotating Anemometer.

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OCCUPATIONAL HEALTH & SAFETY - PHYSICAL MEASUREMENTS	Occupational noise (Field measurement)	<b>Noise</b> <i>Determination of exposure to noise at work</i>	UNE – EN ISO 9612 (2009). Acoustics - Determination of occupational noise exposure - Engineering method.
	Work environmental (Field measurement)	<b>Ergonomics of thermal stress in hot environments</b>	ISO 7243:2017(E) Ergonomic of the thermal environment – Assessment of heat stress using the WBGT (wet bulb globe temperature) index.
		<b>Ergonomics of thermal stress of cold stress</b>	ISO 11079:2007 Ergonomics of the thermal environment - Determination and interpretation of cold stress when using required clothing insulation (IREQ) and local cooling effects.
		<b>Lighting</b>	UNE-EN 12464-1(2011). Lighting of workplaces. Part 1: Workplaces indoors. UNE-EN 12464-2 (2014). Lighting of workplaces. Part 2: External workplaces
	Occupational Health (Field measurement)	<b>Vibration</b> <i>Measurement and evaluation of human exposure to hand-transmitted vibration</i>	UNE – EN ISO 5349-2 (2001). Mechanical vibration - Measurement and evaluation of human exposure to hand-transmitted vibration - Part 2: Practical guidance for measurement at the workplace.
		<b>Vibration</b> <i>Mechanical vibration and shock - Evaluation of human exposure to whole-body vibration</i>	NTP – ISO 2631-1(2016). Mechanical vibration and shock -Evaluation of human exposure to whole-body vibration - Part 1: General requirement.
		<b>Vibration</b> <i>Vibration in buildings.</i>	NTP-ISO 2631-2 (2012). Vibrations And Mechanical Shocks. Evaluation of human exposure to whole-body vibrations. Part 2: Vibration in buildings (1 Hz to 80 Hz).
	Air (Field measurement)	<b>Electromagnetic Field (Magnetic Field Intensity)</b>	IEEE 644:1994 (R2008). Standard Procedures for Measurement of Power Frequency electric and Magnetic Fields from AC Power Lines.

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OCCUPATIONAL HEALTH & SAFETY - PHYSICAL MEASUREMENTS (cont'd.)		<i>Volatile Organic Compounds, O<sub>2</sub>, CO, H<sub>2</sub>S, LEL, Methane (CH<sub>4</sub>), Formaldehyde (HCHO), CO<sub>2</sub>, Ozone, Chlorine (Cl<sub>2</sub>), Chlorine Dioxide (ClO<sub>2</sub>), Ammonia (NH<sub>3</sub>)</i>	Method 200130 Electrochemical technique with photoionization Detector. MultiRAE User's Guide Rev C May 2013 P/N: M01-4003-000 RAE, Systems Inc.
PLASTIC MATERIALS - CHEMISTRY INORGANIC	Plastic materials intended for food contact  (Analysis)	<i>Metals Determination of the specific migration of metals: Aluminum, Barium, Zinc, Copper, Cobalt, Iron, Lithium, Manganese, Nickel</i>	NTP 399.163-5:2017 PLASTIC CONTAINERS AND ACCESSORIES IN CONTACT WITH FOOD. Part 5: Determination of the content and specific migration of metals in dyes and pigments  NTP 399.163-1:2017 PLASTIC CONTAINERS AND ACCESSORIES IN CONTACT WITH FOOD. Part 1: General provisions and requirements. 3rd Edition.  NTP 399.163-2:2017 PLASTIC CONTAINERS AND ACCESSORIES IN CONTACT WITH FOOD. Part 2: Food classification, simulants and test methods. 3rd Edition
		<i>Determination of the specific migration of metals: Aluminum, Barium, Zinc, Copper, Cobalt, Iron, Lithium, Manganese, Nickel // Antimony, Arsenic, Boron, Cadmium, Chromium, Tin, Mercury, Silver, Lead.</i>	NTP 399.163-5:2017 PLASTIC CONTAINERS AND ACCESSORIES IN CONTACT WITH FOOD. Part 5: Determination of specific metal content and migration in dyes and pigments.  // MERCOSUR/GMC/RES. N°15/10. MERCOSUR Technical Regulations on dyes in plastic containers and equipment intended to be in contact with food (Repeal of RES. GMC No. 28/93), ANNEX, No. 3. Tests for printed plastic containers and equipment and/or containing dyes in their formulation, intended to come into contact

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PLASTIC MATERIALS - CHEMISTRY INORGANIC (cont'd.)	Plastic materials intended for food contact  (Analysis) (cont'd.)	<b>Determination of the specific migration of metals:</b> Aluminum, Barium, Zinc, Copper, Cobalt, Iron, Lithium, Manganese, Nickel // Antimony, Arsenic, Boron, Cadmium, Chromium, Tin, Mercury, Silver, Lead. (cont'd.)	with food, Item 3.2 Determination of specific migration of metals and other elements.  NTP 399.163-1:2017 PLASTIC CONTAINERS AND ACCESSORIES IN CONTACT WITH FOOD. Part 1: General provisions and requirements. 3rd Edition.  NTP 399.163-2:2017 PLASTIC CONTAINERS AND ACCESSORIES IN CONTACT WITH FOOD. Part 2: Food classification, simulants and test methods. 3rd Edition
		<b>Total (global) migration test in packaging</b>	NTP 399.163-6:2016/ENM 1:2017 PLASTIC CONTAINERS AND ACCESSORIES IN CONTACT WITH FOOD Part 6: Total migration tests on packaging. Amendment 1. 1st Edition.  NTP 399.163-1:2017 PLASTIC CONTAINERS AND ACCESSORIES IN CONTACT WITH FOOD. Part 1: General provisions and requirements. 3rd Edition.  NTP 399.163-2:2017 PLASTIC CONTAINERS AND ACCESSORIES IN CONTACT WITH FOOD. Part 2: Food classification, simulants and test methods. 3rd Edition
	Ink and pigment for food contact plastics Analysis	<b>Determination of the content of heavy metals in dyes and pigments:</b> Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium, Zinc.	NTP 399.163-5:2017. PLASTIC CONTAINERS AND ACCESSORIES IN CONTACT WITH FOOD. Part 5: Determination of the content and specific migration of metals in dyes and pigments.  NTP 399.163-1:2017 PLASTIC CONTAINERS AND

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
<b>PLASTIC MATERIALS - CHEMISTRY INORGANIC</b> (cont'd.)			ACCESSORIES IN CONTACT WITH FOOD. Part 1: General provisions and requirements. 3rd Edition
<b>TOYS AND DESKTOP ITEMS -TOXICOLOGY - CHEMISTRY INORGANIC</b>	<p>Toys, toy parts and stationery based on:</p> <p>Coatings for paints, varnishes, lacquers, printing inks, polymers, foams or the like. Polymeric and similar materials.</p> <p>Paper and paperboard. Natural and synthetic textiles, Crystal, Ceramic, metallic materials.</p> <p>Wood, fiberboard, bone and leather. Compressed pill tablets, materials intended to leave a trace.</p> <p>Flexible modeling materials, including modeling clay and plaster. Liquid paints, finger paint, lacquers, varnishes, liquid ink and similar materials. Glue sticks.</p> <p>(Analysis)</p>	<p><b><i>Metal migration in toys and desktop items:</i></b></p> <p><i>Arsenic, Aluminum, Antimony, Barium, Boron, Cadmium, Copper, Chromium, Cobalt, Tin, Strontium, Lead, Mercury, Manganese, Selenium, Nickel, Zinc.</i></p>	UNE-EN 71-3:2013+A3.2018 Safety of toys - Part 3: Migration of certain elements.
<b>ENVIRONMENTAL TOXICOLOGY - CHEMISTRY INORGANIC</b>	<p>Solid Waste (Sludge toxicity) or other solids, semi-solids or liquids, Soils, Sediments</p> <p>(Sampling &amp; Analysis)</p>	<p><b><i>Metals in TCLP (Toxicity Characteristic Leaching Procedure)</i></b></p> <p><b><i>Metals:</i></b></p> <p><i>Aluminum (Al), Antimony (Sb), Arsenic (As), Barium (Ba), Boron (B), Beryllium (Be), Cadmium (Cd), Calcium (Ca), Chromium (Cr), Cobalt (Co), Copper (Cu), Iron (Fe), Lead (Pb), Lithium (Li), Magnesium</i></p>	EPA 1311 Rev.0:1992. Toxicity Characteristic Leaching Procedure / Method EPA 6010D, Rev. 5, 2018. Inductively Coupled Plasma - Optical Emission Spectrometry (ICP-OES).

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<b>ENVIRONMENTAL TOXICOLOGY - CHEMISTRY INORGANIC</b> (cont'd.)	Solid Waste (Sludge toxicity) or other solids, semi-solids or liquids, Soils, Sediments  (Sampling & Analysis) (cont'd.)	(Mg), Manganese (Mn), Mercury (Hg), Molybdenum (Mo), Nickel (Ni), Phosphorus (P), Potassium (K), Selenium (Se), Silica (SiO <sub>2</sub> ), Silver (Ag), Sodium (Na), Strontium (Sr), Thallium (Tl), Estaño, Titanium (Ti), Vanadium (V), Zinc (Zn), Thorium (Th), Uranium (U), Tungsten (W)	
<b>ENVIRONMENTAL TOXICOLOGY - CHEMISTRY ORGANIC</b>	Solid Waste (Sludge toxicity) or other solids, semi-solids or liquids, Soils, Sediments  (Sampling & Analysis)	<b>Volatile Organic Compounds in TCLP (Toxicity Characteristic Leaching Procedure)</b>  1,1-Dichloroethene, Dichloromethane, Trans-1,2- Dichloroethylene, 1,1-Dichloroethane, 2,2- Dichloropropane, Cis-1,2-Dichloroethylene, Bromochloromethane, 1,1,1-Trichlorethane, 1,1-Dichloropropene, Carbon Tetrachloride, 1,2-Dichloroethane, trichloroethylene, 1,2-Dichloropropane, Dibromomethane, Cis-1,3-Dichloropropene, Trans-1,3- Dichloropropene, 1,1,2 Trichloroethane, 1,3-Dichloropropane, tetrachloroethylene, 1,2-Dibromoethane, Chlorobenzene, 1,1,1,2-Tetrachloroethane, Styrene, Cumene, 1,1,2,2 Tetrachloroethane, 1,2,3- Trichloropropane, n-Propylbenzene, Bromobenzene, 1,3,5- Trimethylbenzene, 2-Chlorotoluene, 4-Chlorotoluene, Tert-Butylbenzene,	EPA 1311 Rev.0:1992. Toxicity Characteristic Leaching Procedure. / Method 8260D – Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) Revision 4, June 2018.  EPA 1311 Rev.0:1992. Toxicity Characteristic Leaching Procedure. / Method 8260D – Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) Revision 4, June 2018. (cont'd.)

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
ENVIRONMENTAL TOXICOLOGY - CHEMISTRY ORGANIC (cont'd.)	Solid Waste (Sludge toxicity) or other solids, semi-solids or liquids, Soils, Sediments  (Sampling & Analysis) (cont'd.)	1,2,4- Trimethylbenzene, Sec- Butylbenzene, p-Isopropyltoluene, 1,3 Dichlorobenzene, 1,4-Dichlorobenzene, n-Butylbenzene, 1,2-Dichlorobenzene, 1,2-Dibromo-3-chloropropane, 1,2,4-Trichlorobenzene, Hexachlorobutadiene, Naphthalene, 1,2,3-Trichlorobenzene, Chloroform, Bromodichloromethane, Dibromochloromethane, Bromoform	
		<b>Pesticides in TCLP (Toxicity Characteristic Leaching Procedure)</b>  Methamidophos, Malathion, Parathion, Pentachlorophenol, Lindane, Heptachlor, Aldrin, Heptachlor epoxide, Chlordane-Trans, Endosulfan I, Chlordane-Cis, Dieldrin, DDE-p, p (4,4-DDE), Endrin, Endosulfan II, DDD-p, p (4,4'-DDD), DDT-p, p (Dichloro Diphenyl Trichloro ethane)	EPA 1311 Rev.0:1992. Toxicity Characteristic Leaching Procedure. / EPA Method 8270E, Rev 06. Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) - 2018.
FOODS - MICROBIOLOGY	Foods (Sampling & Analysis)	<b>Mold count</b>	ICMSF Food Microorganisms. Its meaning and methods of enumeration. P.166-167 2nd Ed. Reprint 2000. Mould and yeast counts. Method of counting molds and yeasts by sowing in plate in the whole medium
		<b>Yeast count</b>	ICMSF Food Microorganisms. Its meaning and methods of enumeration. P.166-167 2nd Ed. Reprint 2000. Mould and yeast counts. Method of counting molds and yeasts by

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
<b>FOODS - MICROBIOLOGY</b> (cont'd.)	Foods (Sampling & Analysis) (cont'd.)		sowing in plate in the whole medium
		<b>Mesophilic Aerobic Count</b>	ISO 4833-1:2013, Microbiology of the food chain -- Horizontal method for the enumeration of microorganisms -- Part 1: Colony count at 30 degrees C by the pour plate technique.
		<b>Total Coliform Enumeration</b>	ISO 4831:2006. Except item 9.1, Microbiology of food and animal feeding stuffs -- Horizontal method for the detection and enumeration of coliforms -- Most probable number technique.
		<b>Staphylococcus aureus Enumeration of coagulase-positive staphylococci (Staphylococcus aureus and other species)</b>	ISO 6888-1:1999/Amd 1:2003/Amd 2:2018. Microbiology of food and animal feeding stuffs-Horizontal method for the enumeration of coagulase-positive staphylococci (Staphylococcus aureus and other species) Part 1: Technique using Baird Parker agar medium / Amendment 1:Inclusion of precision data/ Amendment 2: Inclusion of an alternative confirmation test using RPFA stab method.
		<b>Escherichia coli Presumptive listing of Escherichia coli</b>	ISO 7251:2005, Microbiology of food and animal feeding stuffs -- Horizontal method for the detection and enumeration of presumptive Escherichia coli -- Most probable number technique.
		<b>Salmonella sp.</b>	ISO 6579-1:2017/AMD 1:2020, Microbiology of the food chain — Horizontal method for the detection, enumeration and serotyping of Salmonella — Part 1: Detection of Salmonella spp. — Amendment 1: Broader range of incubation temperatures, amendment to the status of



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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
			Annex D, and correction of the composition of MSR/V and SC
<b>CHEMICAL PRODUCTS - BIOCIDES ACTIVITY</b>	Disinfectants, Cleaning products  (Analysis)	<b>Bactericidal activity (microbial confrontation)</b>	UNE-EN 1040:2006 Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of basic bactericidal activity of chemical disinfectants and antiseptics - Test method and requirements (phase 1).
		<b>Fungicidal activity (microbial confrontation)</b>	UNE-EN 1275:2007 Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of basic fungicidal or basic yeasticidal activity of chemical disinfectants and antiseptics - Test method and requirements (phase 1).
<b>ELECTRIC AND MAGNETIC FIELD LEVELS GENERATED BY AC POWER SYSTEMS</b>	Non-ionizing radiation: Measurement procedures with regard to public exposure	<b>Electric and magnetic fields</b>	UNE-EN 62110:2013/AC. Electric and magnetic fields generated by alternating current power systems. Procedures for measuring the levels of exposure of the general public
<b>MEASUREMENT OF DC MAGNETIC, AC MAGNETIC AND AC ELECTRIC FIELDS</b>	Non-ionizing radiation: 1 Hz to 100 kHz with regard to exposure of human beings	<b>Electric and magnetic fields</b>	IEC 61786-2:2014  Measurement of DC magnetic, AC magnetic and AC electric fields from 1 Hz to 100 kHz with regard to exposure of human beings - Part 2: Basic standard for measurements