



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

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CHEMICAL

Valid To: May 31, 2020

Certificate Number: 3258.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests using the following testing technologies, and in the analyte categories, identified below:

Testing Technologies: Electrochemistry, Gravimetry, Titrimetry, Spectroscopy, Chromatography, Mass Spectrometry, ICP Optical Emission Spectroscopy, ICP Mass Spectrometry, Refractometry

<u>ALS Method Code(s)</u>	<u>Matrices</u>	<u>Parameter/Analyte(s)</u>	<u>Reference(s)</u>
EA002/EA005	Water, Soil	pH	SM 4500-H <sup>+</sup> B, APHA 23 <sup>rd</sup> Edition, 2017
EA006	Water, Soil	Sodium Absorption Ratio (SAR)	SM 3120 (Ca, Mg, Na A), APHA 23 <sup>rd</sup> Edition, 2017
EA008	Soil	Calcium Carbonate Equivalent	ASTM C602
EA008S	Soil	Carbonate (CO <sub>3</sub> )	ASTM D4373-2
EA010	Water, Soil	Conductivity	SM 2510 B, APHA 23 <sup>rd</sup> Edition, 2017
EA015	Water	Total Dissolved Solids (TDS)	SM 2540C, APHA 23 <sup>rd</sup> Edition, 2017
EA016	Water	Salinity (non-Marine Estimated TDS)	SM 2510B, APHA 23 <sup>rd</sup> Edition, 2017
EA025	Water	Suspended Solids (TSS)	SM 2540D, APHA 23 <sup>rd</sup> Edition, 2017
EA030	Soil	Total Solids	In-house Method
EA030	Water	Total Solids	SM 2540B, APHA 23 <sup>rd</sup> Edition, 2017
EA034	Water	Settleable Solids	SM 2540F, APHA 23 <sup>rd</sup> Edition, 2017
EA035	Water	Fixed and/or Volatile Solids	SM 2540E, APHA 23 <sup>rd</sup> Edition, 2017
EA036	Water	Fixed and/or Volatile Suspended Solids	SM 2540E, APHA 23 <sup>rd</sup> Edition, 2017
EA040	Water	Colour (Apparent)	SM 2120B, APHA 23 <sup>rd</sup> Edition, 2017
EA041	Water	Colour (True)	SM 2120B, APHA 23 <sup>rd</sup> Edition, 2017

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EA045	Water	Turbidity	SM 2130B, APHA 23 <sup>rd</sup> Edition, 2017
EA050	Water	Specific Gravity	ASTM D1429
EA051	Soil	Bulk Density	In-house Method
EA055	Water	Moisture Content	In-house Method
EA065	Water	Total Hardness as CaCO <sub>3</sub>	SM 2340B, APHA 23 <sup>rd</sup> Edition, 2017
EA066	Water	Calcium Hardness as CaCO <sub>3</sub>	SM 2340B, APHA 23 <sup>rd</sup> Edition, 2017
EA069	Water	Magnesium Hardness as CaCO <sub>3</sub>	SM 2340B, APHA 23 <sup>rd</sup> Edition, 2017
EA071	Water	Langelier's Index (LSI)	ASTM D3739-06
EA075	Water	Redox Potential	SM 2580, APHA 23 <sup>rd</sup> Edition, 2017
EA080	Water	Resistivity	SM 2510, APHA 23 <sup>rd</sup> Edition, 2017
EA101	Soil	Loss on Ignition (LOI)	AS/NZS 2853:1996
EA116	Water	Temperature	SM 2550, APHA 23 <sup>rd</sup> Edition, 2017
EA118	Water	Floatables	SM 2530, APHA 23 <sup>rd</sup> Edition, 2017
EA165	Water	Free and Total CO <sub>2</sub>	SM 4500-CO <sub>2</sub> , APHA 23 <sup>rd</sup> Edition, 2017
EA200	Water	Taste	SM 2160B, APHA 23 <sup>rd</sup> Edition, 2017
EA201	Water	Odor	SM 2170B, APHA 23 <sup>rd</sup> Edition, 2017
ED009	Water	Anions by Ion Chromatography	SM 4110B, APHA 23 <sup>rd</sup> Edition, 2017; US EPA 300.1
ED013	Water	Inorganic Disinfection By-Products by Ion Chromatography	US EPA 300.1 Part B
ED037	Water	Hydroxide Alkalinity as CaCO <sub>3</sub>	SM 2320B, APHA 23 <sup>rd</sup> Edition, 2017
ED037	Water	Carbonate Alkalinity as CaCO <sub>3</sub>	SM 2320B, APHA 23 <sup>rd</sup> Edition, 2017
ED037	Water	Bicarbonate Alkalinity as CaCO <sub>3</sub>	SM 2320B, APHA 23 <sup>rd</sup> Edition, 2017
ED037	Water	Total Alkalinity as CaCO <sub>3</sub>	SM 2320B, APHA 23 <sup>rd</sup> Edition, 2017
ED038	Water	Acidity as CaCO <sub>3</sub>	SM 2310B, APHA 23 <sup>rd</sup> Edition, 2017
ED040	Water	Dissolved Sulphur (ICPAES) as SO <sub>4</sub>	US EPA 6010 ICP/AES
ED040T	Soil	Sulphate – Total as SO <sub>4</sub>	US EPA 6010 ICP/AES
ED045	Water, Soil	Chloride	SM 4500-Cl <sup>-</sup> B, APHA 23 <sup>rd</sup> Edition, 2017
ED093	Water, Soil	Major Cations (Ca, Mg, K, Na) by ICP/AES	US EPA 6010 ICP/AES
EG005	Water, Soil	Silica (SiO <sub>2</sub> )	US EPA 6010 ICP/AES

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EG005	Water, Soil	Phosphorus	US EPA 6010 ICP/AES
EG005	Water, Soil	Silicon (Si)	US EPA 6010 ICP/AES
EG005	Water, Soil	Sulfur (S)	US EPA 6010 ICP/AES
EG005/EG020	Water, Soil	Aluminium (Al)	US EPA 6010 ICP/AES; US EPA 6020 ICP/MS
EG005/EG020	Water, Soil	Antimony (Sb)	US EPA 6010 ICP/AES; US EPA 6020 ICP/MS
EG005/EG020	Water, Soil	Arsenic (As)	US EPA 6010 ICP/AES; US EPA 6020 ICP/MS
EG005/EG020	Water, Soil	Barium (Ba)	US EPA 6010 ICP/AES; US EPA 6020 ICP/MS
EG005/EG020	Water, Soil	Beryllium (Be)	US EPA 6010 ICP/AES; US EPA 6020 ICP/MS
EG005/EG020	Water, Soil	Bismuth (Bi)	US EPA 6010 ICP/AES; US EPA 6020 ICP/MS
EG005/EG020	Water, Soil	Boron (B)	US EPA 6010 ICP/AES; US EPA 6020 ICP/MS
EG005/EG020	Water, Soil	Cadmium (Cd)	US EPA 6010 ICP/AES; US EPA 6020 ICP/MS
EG005/EG020	Water, Soil	Chromium (Cr)	US EPA 6010 ICP/AES; US EPA 6020 ICP/MS
EG005/EG020	Water, Soil	Cobalt (Co)	US EPA 6010 ICP/AES; US EPA 6020 ICP/MS
EG005/EG020	Water, Soil	Copper (Cu)	US EPA 6010 ICP/AES; US EPA 6020 ICP/MS
EG005/EG020	Water, Soil	Iron (Fe)	US EPA 6010 ICP/AES; US EPA 6020 ICP/MS
EG005/EG020	Water, Soil	Lead (Pb)	US EPA 6010 ICP/AES; US EPA 6020 ICP/MS
EG005/EG020	Water, Soil	Lithium (Li)	US EPA 6010 ICP/AES; US EPA 6020 ICP/MS
EG005/EG020	Water, Soil	Manganese (Mn)	US EPA 6010 ICP/AES; US EPA 6020 ICP/MS
EG005/EG020	Water, Soil	Molybdenum (Mo)	US EPA 6010 ICP/AES; US EPA 6020 ICP/MS
EG005/EG020	Water, Soil	Nickel (Ni)	US EPA 6010 ICP/AES; US EPA 6020 ICP/MS
EG005/EG020	Water, Soil	Selenium (Se)	US EPA 6010 ICP/AES; US EPA 6020 ICP/MS
EG005/EG020	Water, Soil	Silver (Ag)	US EPA 6010 ICP/AES; US EPA 6020 ICP/MS
EG005/EG020	Water, Soil	Strontium (Sr)	US EPA 6010 ICP/AES; US EPA 6020 ICP/MS
EG005/EG020	Water, Soil	Tin (Sn)	US EPA 6010 ICP/AES; US EPA 6020 ICP/MS
EG005/EG020	Water, Soil	Titanium (Ti)	US EPA 6010 ICP/AES; US EPA 6020 ICP/MS
EG005/EG020	Water, Soil	Vanadium (V)	US EPA 6010 ICP/AES; US EPA 6020 ICP/MS



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EG005/EG020	Water, Soil	Zinc (Zn)	US EPA 6010 ICP/AES; US EPA 6020 ICP/MS
EG020	Water, Soil	Caesium (Cs)	US EPA 6020 ICP/MS
EG020	Water, Soil	Cerium (Ce)	US EPA 6020 ICP/MS
EG020	Water, Soil	Dysprosium (Dy)	US EPA 6020 ICP/MS
EG020	Water, Soil	Erbium (Er)	US EPA 6020 ICP/MS
EG020	Water, Soil	Europium (Eu)	US EPA 6020 ICP/MS
EG020	Water, Soil	Gadolinium (Gd)	US EPA 6020 ICP/MS
EG020	Water, Soil	Gallium (Ga)	US EPA 6020 ICP/MS
EG020	Water, Soil	Hafnium (Hf)	US EPA 6020 ICP/MS
EG020	Water, Soil	Holmium (Ho)	US EPA 6020 ICP/MS
EG020	Water, Soil	Indium (In)	US EPA 6020 ICP/MS
EG020	Water, Soil	Lanthanum (La)	US EPA 6020 ICP/MS
EG020	Water, Soil	Lutetium (Lu)	US EPA 6020 ICP/MS
EG020	Water, Soil	Mercury (Hg)	US EPA 6020 ICP/MS
EG020	Water, Soil	Neodymium (Nd)	US EPA 6020 ICP/MS
EG020	Water, Soil	Praseodymium (Pr)	US EPA 6020 ICP/MS
EG020	Water, Soil	Rubidium (Rb)	US EPA 6020 ICP/MS
EG020	Water, Soil	Samarium (Sm)	US EPA 6020 ICP/MS
EG020	Water, Soil	Tellurium (Te)	US EPA 6020 ICP/MS
EG020	Water, Soil	Terbium (Tb)	US EPA 6020 ICP/MS
EG020	Water, Soil	Thallium (Tl)	US EPA 6020 ICP/MS
EG020	Water, Soil	Thorium (Th)	US EPA 6020 ICP/MS
EG020	Water, Soil	Thulium (Tm)	US EPA 6020 ICP/MS
EG020	Water, Soil	Uranium (U)	US EPA 6020 ICP/MS
EG020	Water, Soil	Ytterbium (Yb)	US EPA 6020 ICP/MS
EG020	Water, Soil	Yttrium (Y)	US EPA 6020 ICP/MS
EG020	Water, Soil	Zirconium (Zr)	US EPA 6020 ICP/MS
EG035	Water, Soil	Mercury by Flow Injection Mercury – Atomic Absorption Spectrometry (FIMS-AAS)	SM 3112B, APHA 23 <sup>rd</sup> Edition, 2017
EG049	Water, Soil	Trivalent Chromium (Cr III)	SM 3500-Cr A & B, APHA 23 <sup>rd</sup> Edition, 2017
EG050	Water, Soil	Hexavalent Chromium	SM 3500-Cr B, APHA 23 <sup>rd</sup> Edition, 2017
EG051	Water	Iron – Ferrous	SM 3500-Fe B, APHA 23 <sup>rd</sup> Edition, 2017
EG052	Water	Silica (SiO <sub>2</sub> )	US EPA 6010 ICP/AES
EG053	Water	Ferric Iron – Dissolved	SM 3500-Fe B, APHA 23 <sup>rd</sup> Edition, 2017
EK010	Water	Total Residual Chlorine	SM 4500-Cl G, APHA 23 <sup>rd</sup> Edition, 2017
EK011	Water	Free Chlorine	SM 4500-Cl G, APHA 23 <sup>rd</sup> Edition, 2017
EK025	Water, Soil	Free Cyanide	SM 4500-CN C&N, APHA 23 <sup>rd</sup> Edition, 2017
EK026	Water, Soil	Total Cyanide	SM 4500 CN- C&N, APHA 23 <sup>rd</sup> Edition, 2017




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EK028	Water, Soil	Weak Acid Dissociable Cyanide (WAD)	SM 4500-CN C&N, APHA 23 <sup>rd</sup> Edition, 2017
EK040	Water, Soil	Fluoride	SM 4500-F C, APHA 23 <sup>rd</sup> Edition, 2017
EK055	Water, Soil	Ammonia as N by Titrimetry	SM 4500-NH <sub>3</sub> H, APHA 23 <sup>rd</sup> Edition, 2017
EK055G	Water, Soil	Ammonia as N by Discrete Spectrophotometry	SM 4500-NH <sub>3</sub> H, APHA 23 <sup>rd</sup> Edition, 2017.; Aquakem NH <sub>3</sub> -W-P-V
EK057G	Water, Soil	Nitrite as N by Discrete Spectrophotometry	SM 4500-NO <sub>2</sub> <sup>-</sup> B, APHA 23 <sup>rd</sup> Edition, 2017
EK058	Water, Soil	Nitrate as N by Discrete Spectrophotometry	NEMI Method 9171; Thermo-Scientific Method NO <sub>x</sub> -W-C-I
EK059G	Water, Soil	Nitrate as N + Nitrite as N (NO <sub>x</sub> ) by Discrete Spectrophotometry	NEMI Method 9171; Thermo-Scientific Method NO <sub>x</sub> -W-C-I
EK060	Water, Soil	Organic Nitrogen as N	SM 4500 B & H, APHA 23 <sup>rd</sup> Edition, 2017
EK061	Water, Soil	Total Kjeldahl Nitrogen (TKN) as N	SM 4500-N <sub>org</sub> D, APHA 23 <sup>rd</sup> Edition, 2017; Aquakem Labmedics TKN002
EK067	Water, Soil	Total Phosphorus as P	SM 4500-P H, APHA 23 <sup>rd</sup> Edition, 2017
EK071	Water, Soil	Reactive Phosphorus as P	SM 4500-P G, APHA 23 <sup>rd</sup> Edition, 2017; Aquakem Labmedics PHO002/002/003
EK084	Water, Soil	Un-ionised Hydrogen Sulfide	SM 4500-S <sup>2-</sup> H, APHA 23 <sup>rd</sup> Edition, 2017
EK085	Water, Soil	Sulphide as S <sup>2-</sup>	SM 4500-S <sup>2-</sup> D, APHA 23 <sup>rd</sup> Edition, 2017
EK086	Water	Sulphite as SO <sub>3</sub> <sup>2-</sup>	SM 4500-SO <sub>3</sub> <sup>2-</sup> D, APHA 23 <sup>rd</sup> Edition, 2017
EK087	Water	Thiosulfate as S <sub>2</sub> O <sub>3</sub> <sup>2-</sup>	In-house Method
EP002	Water	Dissolved Organic Carbon (DOC)	SM 5310B, APHA 23 <sup>rd</sup> Edition, 2017
EP004	Soil	Organic Matter	AS 1289.4.1.1 - 1997
EP004	Soil	Total Organic Carbon (TOC), Calculated	AS 1289.4.1.1 - 1997
EP005	Water	Total Organic Carbon (TOC)	SM 5310B, APHA 23 <sup>rd</sup> Edition, 2017
EP006	Water	Total Inorganic Carbon (TIC)	SM 5310B, APHA 23 <sup>rd</sup> Edition, 2017
EP007	Water	Total Carbon (TC)	SM 5310B, APHA 23 <sup>rd</sup> Edition, 2017
EP008	Water	Chlorophyll	SM 10200H, APHA 23 <sup>rd</sup> Edition, 2017
EP010	Water	Formaldehyde	ASTM D6303-98

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EP015	Water	Total Petroleum Hydrocarbon (Gravimetric)	SM 5520B, APHA 23 <sup>rd</sup> Edition, 2017
EP020	Water	Oil and Grease	SM 5520B, APHA 23 <sup>rd</sup> Edition, 2017
EP020-S	Soil	Oil and Grease (HEM)	US EPA 9071B
EP025	Water	Dissolved Oxygen	SM 4500-O G, APHA 23 <sup>rd</sup> Edition, 2017
EP026	Water, Soil	Chemical Oxygen Demand (COD)	SM 5220C, APHA 23 <sup>rd</sup> Edition, 2017
EP026ST	Water	Chemical Oxygen Demand – Sealed Tube	ISO 15705:2002
EP030	Water	Biochemical Oxygen Demand (BOD)	SM 5210B, APHA 23 <sup>rd</sup> Edition, 2017
EP035	Water	Phenolics – Total	SM 5530 B&D, APHA 23 <sup>rd</sup> Edition, 2017
EP050	Water	Anionic as MBAS	SM 5540B&C, APHA 23 <sup>rd</sup> Edition, 2017
EP066	Water, Soil	Polychlorinated Biphenyls	US EPA 8270 GC/MS
EP068A	Water, Soil	Aldrin	US EPA 8270 GC/MS
EP068A	Water, Soil	Alpha-BHC (Lindane)	US EPA 8270 GC/MS
EP068A	Water, Soil	Beta & Gamma-BHC	US EPA 8270 GC/MS
EP068A	Water, Soil	Chlordane-cis	US EPA 8270 GC/MS
EP068A	Water, Soil	Chlordane-trans	US EPA 8270 GC/MS
EP068A	Water, Soil	DDD	US EPA 8270 GC/MS
EP068A	Water, Soil	DDE	US EPA 8270 GC/MS
EP068A	Water, Soil	DDT	US EPA 8270 GC/MS
EP068A	Water, Soil	Delta-BHC	US EPA 8270 GC/MS
EP068A	Water, Soil	Dieldrin	US EPA 8270 GC/MS
EP068A	Water, Soil	Endosulphan 1	US EPA 8270 GC/MS
EP068A	Water, Soil	Endosulphan 2	US EPA 8270 GC/MS
EP068A	Water, Soil	Endosulphan sulphate	US EPA 8270 GC/MS
EP068A	Water, Soil	Endrin	US EPA 8270 GC/MS
EP068A	Water, Soil	Endrin aldehyde	US EPA 8270 GC/MS
EP068A	Water, Soil	Endrin ketone	US EPA 8270 GC/MS
EP068A	Water, Soil	Heptachlor	US EPA 8270 GC/MS
EP068A	Water, Soil	Heptachlor epoxide	US EPA 8270 GC/MS
EP068A	Water, Soil	Hexachlorobenzene (HCB)	US EPA 8270 GC/MS
EP068A	Water, Soil	Methoxychlor	US EPA 8270 GC/MS
EP068B	Water, Soil	Azinphos-methyl	US EPA 8270 GC/MS
EP068B	Water, Soil	Bromophos-ethyl	US EPA 8270 GC/MS
EP068B	Water, Soil	Carbophenothion	US EPA 8270 GC/MS
EP068B	Water, Soil	Chlorfenvinphos E	US EPA 8270 GC/MS
EP068B	Water, Soil	Chlorfenvinphos Z	US EPA 8270 GC/MS
EP068B	Water, Soil	Chlorpyrifos	US EPA 8270 GC/MS
EP068B	Water, Soil	Chlorpyrifos-methyl	US EPA 8270 GC/MS
EP068B	Water, Soil	Demetron-S-methyl	US EPA 8270 GC/MS
EP068B	Water, Soil	Diazinon	US EPA 8270 GC/MS
EP068B	Water, Soil	Dichlorvos	US EPA 8270 GC/MS
EP068B	Water, Soil	Dimethoate	US EPA 8270 GC/MS



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EP068B	Water, Soil	Ethion	US EPA 8270 GC/MS
EP068B	Water, Soil	Fenamiphos	US EPA 8270 GC/MS
EP068B	Water, Soil	Fenthion	US EPA 8270 GC/MS
EP068B	Water, Soil	Malathion	US EPA 8270 GC/MS
EP068B	Water, Soil	Monocrotophos	US EPA 8270 GC/MS
EP068B	Water, Soil	Parathion	US EPA 8270 GC/MS
EP068B	Water, Soil	Parathion-methyl	US EPA 8270 GC/MS
EP068B	Water, Soil	Pirimphos-ethyl	US EPA 8270 GC/MS
EP068B	Water, Soil	Prothiofos	US EPA 8270 GC/MS
EP068C	Water, Soil	Atrazine	US EPA 8270 GC/MS
EP068C	Water, Soil	Simazine	US EPA 8270 GC/MS
EP070	Water, Soil	Aliphatic / Aromatic TPH (C6-C8)	US EPA 8260 P&T/GC/MS
EP070	Water, Soil	Aliphatic / Aromatic TPH (C8-C10)	US EPA 8260 P&T/GC/MS
EP070	Water, Soil	Aliphatic / Aromatic TPH (C10-C12)	US EPA 8015 GC/FID
EP070	Water, Soil	Aliphatic / Aromatic TPH (C12-C16)	US EPA 8015 GC/FID
EP070	Water, Soil	Aliphatic / Aromatic TPH (C16-C21)	US EPA 8015 GC/FID
EP071	Water, Soil	TPH (C10-C14)	US EPA 8015 (M) GC/FID
EP071	Water, Soil	TPH (C15-C28)	US EPA 8015 (M) GC/FID
EP071	Water, Soil	TPH (C29-C36)	US EPA 8015 (M) GC/FID
EP071	Water, Soil	TPH (C37-C40)	US EPA 8015 (M) GC/FID
EP074	Water, Soil	1,2,4-Trimethylbenzene	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	1,3,5-Trimethylbenzene	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	Isopropylbenzene	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	n-Butylbenzene	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	n-Propylbenzene	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	p-Isopropyltoluene	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	sec-Butylbenzene	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	Styrene	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	tert-Butylbenzene	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	2-Butanone (MEK)	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	2-Hexanone (MBK)	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	2-Propanone (Acetone)	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	4-Methyl-2-pentanone (MIBK)	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	Vinyl Acetate	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	1,2-Dibromoethane	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	1,2-Dichloropropane	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	2,2-Dichloropropane	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	cis-1,3-Dichloropropylene	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	trans-1,3-Dichloropropylene	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	1,1,1,2-Tetrachloroethane	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	1,1,1-Trichloroethane	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	1,1,2,2-Tetrachloroethane	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	1,1,2-Trichloroethane	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	1,1-Dichloro-1-propene	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	1,1-Dichloroethane	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	1,1-Dichloroethene	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	1,2,3-Trichloropropane	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	1,2-Dibromo-3-chloropropane	US EPA 8260 P&T/GC/MS



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EP074	Water, Soil	1,2-Dichloroethane	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	1,3-Dichloropropane	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	Bromochloromethane	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	Bromomethane	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	Carbon tetrachloride	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	Chloroethane	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	Chloromethane	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	cis-1,2-Dichloroethene	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	Dibromomethane	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	Dichlorodifluoromethane	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	Dichloromethane	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	Hexachlorobutadiene	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	Methylene chloride	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	Pentachloroethane	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	Tetrachloroethene	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	trans-1,2-Dichloroethene	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	trans-1,3-Dichloropropene	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	Trichloroethene	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	Trichlorofluoromethane	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	Vinyl chloride	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	1,2,3-Trichlorobenzene	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	1,2,4-Trichlorobenzene	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	1,2-Dichlorobenzene	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	1,3-Dichlorobenzene	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	1,4-Dichlorobenzene	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	2-Chlorotoluene	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	4-Chlorotoluene	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	Bromobenzene	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	Chlorobenzene	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	Bromodichloromethane	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	Bromoform	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	Chloroform	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	Dibromochloromethane	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	Napthalene	US EPA 8260 P&T/GC/MS
EP074	Water, Soil	Methyl tert-Butyl Ether (MTBE)	US EPA 8260 P&T/GC/MS
EP074/EP080	Water, Soil	Benzene	US EPA 8260 P&T/GC/MS
EP074/EP080	Water, Soil	Ethylbenzene	US EPA 8260 P&T/GC/MS
EP074/EP080	Water, Soil	m-Xylene	US EPA 8260 P&T/GC/MS
EP074/EP080	Water, Soil	o-Xylene	US EPA 8260 P&T/GC/MS
EP074/EP080	Water, Soil	p-Xylene	US EPA 8260 P&T/GC/MS
EP074/EP080	Water, Soil	Toluene	US EPA 8260 P&T/GC/MS
EP075	Water, Soil	1,2,4-Trichlorobenzene	US EPA 8270 GC/MS
EP075	Water, Soil	1,2,5-Trinitrobenzene	US EPA 8270 GC/MS
EP075	Water, Soil	1,2-Dichlorobenzene	US EPA 8270 GC/MS
EP075	Water, Soil	1,3,5-Trinitrobenzene	US EPA 8270 GC/MS
EP075	Water, Soil	1,3-Dichlorobenzene	US EPA 8270 GC/MS
EP075	Water, Soil	1,4-Dichlorobenzene	US EPA 8270 GC/MS
EP075	Water, Soil	1-Naphthylamine	US EPA 8270 GC/MS





<u>ALS Method Code(s)</u>	<u>Matrices</u>	<u>Parameter/Analyte(s)</u>	<u>Reference(s)</u>
EP075	Water, Soil	2,4,5-Trichlorophenol	US EPA 8270 GC/MS
EP075	Water, Soil	2,4,6-Trichlorophenol	US EPA 8270 GC/MS
EP075	Water, Soil	2,4-Dichlorophenol	US EPA 8270 GC/MS
EP075	Water, Soil	2,4-Dimethylphenol	US EPA 8270 GC/MS
EP075	Water, Soil	2,4-Dinitrotoluene	US EPA 8270 GC/MS
EP075	Water, Soil	2,6-Dichlorophenol	US EPA 8270 GC/MS
EP075	Water, Soil	2,6-Dinitrotoluene	US EPA 8270 GC/MS
EP075	Water, Soil	2-Chloronaphthalene	US EPA 8270 GC/MS
EP075	Water, Soil	2-Chlorophenol	US EPA 8270 GC/MS
EP075	Water, Soil	2-Methylnaphthalene	US EPA 8270 GC/MS
EP075	Water, Soil	2-Methylphenol	US EPA 8270 GC/MS
EP075	Water, Soil	2-Nitroaniline	US EPA 8270 GC/MS
EP075	Water, Soil	2-Nitrophenol	US EPA 8270 GC/MS
EP075	Water, Soil	2-Picoline	US EPA 8270 GC/MS
EP075	Water, Soil	3,3-Dichlorobenzidine	US EPA 8270 GC/MS
EP075	Water, Soil	3-Methylcholanthrene	US EPA 8270 GC/MS
EP075	Water, Soil	3-Nitroaniline	US EPA 8270 GC/MS
EP075	Water, Soil	4-Aminobiphenyl	US EPA 8270 GC/MS
EP075	Water, Soil	4-Bromophenyl phenyl ether	US EPA 8270 GC/MS
EP075	Water, Soil	4-Chloro-3-methylphenol	US EPA 8270 GC/MS
EP075	Water, Soil	4-Chloroaniline	US EPA 8270 GC/MS
EP075	Water, Soil	4-Chlorophenyl phenyl ether	US EPA 8270 GC/MS
EP075	Water, Soil	4-Nitroaniline	US EPA 8270 GC/MS
EP075	Water, Soil	4-Nitroquinoline-N-oxide	US EPA 8270 GC/MS
EP075	Water, Soil	5-Nitro-o-toluidine	US EPA 8270 GC/MS
EP075	Water, Soil	7,12-Dimethylbenz(a)anthracene	US EPA 8270 GC/MS
EP075	Water, Soil	Acenaphthene	US EPA 8270 GC/MS
EP075	Water, Soil	Acenaphthylene	US EPA 8270 GC/MS
EP075	Water, Soil	Acetophenone	US EPA 8270 GC/MS
EP075	Water, Soil	Aldrin	US EPA 8270 GC/MS
EP075	Water, Soil	Alpha-BHC (Lindane)	US EPA 8270 GC/MS
EP075	Water, Soil	Aniline	US EPA 8270 GC/MS
EP075	Water, Soil	Anthracene	US EPA 8270 GC/MS
EP075	Water, Soil	Azobenzene	US EPA 8270 GC/MS
EP075	Water, Soil	Benzo(a)anthracene	US EPA 8270 GC/MS
EP075	Water, Soil	Benzo(a)pyrene	US EPA 8270 GC/MS
EP075	Water, Soil	Benzo(b)fluoranthene	US EPA 8270 GC/MS
EP075	Water, Soil	Benzo(ghi)perylene	US EPA 8270 GC/MS
EP075	Water, Soil	Benzo(k)fluoranthene	US EPA 8270 GC/MS
EP075	Water, Soil	Beta & Gamma-BHC	US EPA 8270 GC/MS
EP075	Water, Soil	Bis(2-chloroethoxy)methane	US EPA 8270 GC/MS
EP075	Water, Soil	Bis(2-chloroethyl)ether	US EPA 8270 GC/MS
EP075	Water, Soil	Bis(2-ethylhexyl)phthalate (DEHP)	US EPA 8270 GC/MS
EP075	Water, Soil	Butylbenzylphthalate (BBP)	US EPA 8270 GC/MS
EP075	Water, Soil	Carbazole	US EPA 8270 GC/MS
EP075	Water, Soil	Chlorfenvinphos E	US EPA 8270 GC/MS
EP075	Water, Soil	Chlorfenvinphos Z	US EPA 8270 GC/MS
EP075	Water, Soil	Chlorobenzilate	US EPA 8270 GC/MS



<b><u>ALS Method Code(s)</u></b>	<b><u>Matrices</u></b>	<b><u>Parameter/Analyte(s)</u></b>	<b><u>Reference(s)</u></b>
EP075	Water, Soil	Chlorpyrifos	US EPA 8270 GC/MS
EP075	Water, Soil	Chlorpyrifos-methyl	US EPA 8270 GC/MS
EP075	Water, Soil	Chrysene	US EPA 8270 GC/MS
EP075	Water, Soil	DDE	US EPA 8270 GC/MS
EP075	Water, Soil	DDT	US EPA 8270 GC/MS
EP075	Water, Soil	Delta-BHC	US EPA 8270 GC/MS
EP075	Water, Soil	Diazinon	US EPA 8270 GC/MS
EP075	Water, Soil	Dibenzo(ah)anthracene	US EPA 8270 GC/MS
EP075	Water, Soil	Dibenzofuran	US EPA 8270 GC/MS
EP075	Water, Soil	Dichlorvos	US EPA 8270 GC/MS
EP075	Water, Soil	Dieldrin	US EPA 8270 GC/MS
EP075	Water, Soil	Diethylphthalate (DEP)	US EPA 8270 GC/MS
EP075	Water, Soil	Dimethoate	US EPA 8270 GC/MS
EP075	Water, Soil	Dimethylaminoazobenzene	US EPA 8270 GC/MS
EP075	Water, Soil	Dimethylphthalate (DMP)	US EPA 8270 GC/MS
EP075	Water, Soil	Di-n-butylphthalate (DnBP)	US EPA 8270 GC/MS
EP075	Water, Soil	Di-n-octylphthalate (DnOP)	US EPA 8270 GC/MS
EP075	Water, Soil	Endosulphan 1	US EPA 8270 GC/MS
EP075	Water, Soil	Endosulphan 2	US EPA 8270 GC/MS
EP075	Water, Soil	Endosulphan sulphate	US EPA 8270 GC/MS
EP075	Water, Soil	Endrin	US EPA 8270 GC/MS
EP075	Water, Soil	Ethion	US EPA 8270 GC/MS
EP075	Water, Soil	Fenthion	US EPA 8270 GC/MS
EP075	Water, Soil	Fluoranthene	US EPA 8270 GC/MS
EP075	Water, Soil	Fluorene	US EPA 8270 GC/MS
EP075	Water, Soil	Heptachlor	US EPA 8270 GC/MS
EP075	Water, Soil	Heptachlor epoxide	US EPA 8270 GC/MS
EP075	Water, Soil	Hexachlorobenzene	US EPA 8270 GC/MS
EP075	Water, Soil	Hexachlorobutadiene	US EPA 8270 GC/MS
EP075	Water, Soil	Hexachlorocyclopentadiene	US EPA 8270 GC/MS
EP075	Water, Soil	Hexachloroethane	US EPA 8270 GC/MS
EP075	Water, Soil	Hexachloropropylene	US EPA 8270 GC/MS
EP075	Water, Soil	Indeno(123cd)pyrene	US EPA 8270 GC/MS
EP075	Water, Soil	Isophorone	US EPA 8270 GC/MS
EP075	Water, Soil	Malathion	US EPA 8270 GC/MS
EP075	Water, Soil	m-Cresol	US EPA 8270 GC/MS
EP075	Water, Soil	Methapyrilene	US EPA 8270 GC/MS
EP075	Water, Soil	N-2-Fluorenyl acetamide	US EPA 8270 GC/MS
EP075	Water, Soil	Naphthalene	US EPA 8270 GC/MS
EP075	Water, Soil	Nitrobenzene	US EPA 8270 GC/MS
EP075	Water, Soil	N-Nitrosodibutylamine	US EPA 8270 GC/MS
EP075	Water, Soil	N-Nitrosodiethylamine	US EPA 8270 GC/MS
EP075	Water, Soil	N-Nitrosodiphenylamine & Diphenylamine	US EPA 8270 GC/MS
EP075	Water, Soil	N-Nitrosomethylethylamine	US EPA 8270 GC/MS
EP075	Water, Soil	N-Nitrosomorpholine	US EPA 8270 GC/MS
EP075	Water, Soil	N-Nitroso-n-propylamine	US EPA 8270 GC/MS
EP075	Water, Soil	N-Nitrosopiperidine	US EPA 8270 GC/MS



<u>ALS Method Code(s)</u>	<u>Matrices</u>	<u>Parameter/Analyte(s)</u>	<u>Reference(s)</u>
EP075	Water, Soil	N-Nitrosopyrrolidine	US EPA 8270 GC/MS
EP075	Water, Soil	o-Cresol	US EPA 8270 GC/MS
EP075	Water, Soil	p-Cresol	US EPA 8270 GC/MS
EP075	Water, Soil	Pentachlorobenzene	US EPA 8270 GC/MS
EP075	Water, Soil	Pentachloronitrobenzene	US EPA 8270 GC/MS
EP075	Water, Soil	Pentachlorophenol	US EPA 8270 GC/MS
EP075	Water, Soil	Phenacetin	US EPA 8270 GC/MS
EP075	Water, Soil	Phenanthrene	US EPA 8270 GC/MS
EP075	Water, Soil	Phenol	US EPA 8270 GC/MS
EP075	Water, Soil	Pirimphos-ethyl	US EPA 8270 GC/MS
EP075	Water, Soil	Pronamide	US EPA 8270 GC/MS
EP075	Water, Soil	Prothiofos	US EPA 8270 GC/MS
EP075	Water, Soil	Pyrene	US EPA 8270 GC/MS
EP075 (SIM)	Water, Soil	2,4,5-Trichlorophenol	US EPA 8270 GC/MS
EP075 (SIM)	Water, Soil	2,4,6-Trichlorophenol	US EPA 8270 GC/MS
EP075 (SIM)	Water, Soil	2,4-Dichlorophenol	US EPA 8270 GC/MS
EP075 (SIM)	Water, Soil	2,4-Dimethylphenol	US EPA 8270 GC/MS
EP075 (SIM)	Water, Soil	2,6-Dichlorophenol	US EPA 8270 GC/MS
EP075 (SIM)	Water, Soil	2-Chlorophenol	US EPA 8270 GC/MS
EP075 (SIM)	Water, Soil	2-Methylphenol	US EPA 8270 GC/MS
EP075 (SIM)	Water, Soil	2-Nitrophenol	US EPA 8270 GC/MS
EP075 (SIM)	Water, Soil	3- & 4-Methylphenol	US EPA 8270 GC/MS
EP075 (SIM)	Water, Soil	4-Chloro-3-methylphenol	US EPA 8270 GC/MS
EP075 (SIM)	Water, Soil	Pentachlorophenol	US EPA 8270 GC/MS
EP075 (SIM)	Water, Soil	Phenol	US EPA 8270 GC/MS
EP075 (SIM)	Water, Soil	2-Methylnaphthalene	US EPA 8270 GC/MS
EP075 (SIM)	Water, Soil	Acenaphthene	US EPA 8270 GC/MS
EP075 (SIM)	Water, Soil	Acenaphthylene	US EPA 8270 GC/MS
EP075 (SIM)	Water, Soil	Anthracene	US EPA 8270 GC/MS
EP075 (SIM)	Water, Soil	Benz(a)anthracene	US EPA 8270 GC/MS
EP075 (SIM)	Water, Soil	Benzo(a)pyrene	US EPA 8270 GC/MS
EP075 (SIM)	Water, Soil	Benzo(b)fluoranthene	US EPA 8270 GC/MS
EP075 (SIM)	Water, Soil	Benzo(g,h,i)perylene	US EPA 8270 GC/MS
EP075 (SIM)	Water, Soil	Benzo(k)fluoranthene	US EPA 8270 GC/MS
EP075 (SIM)	Water, Soil	Chrysene	US EPA 8270 GC/MS
EP075 (SIM)	Water, Soil	Dibenzo(a,h)anthracene	US EPA 8270 GC/MS
EP075 (SIM)	Water, Soil	Fluoranthene	US EPA 8270 GC/MS
EP075 (SIM)	Water, Soil	Fluorene	US EPA 8270 GC/MS
EP075 (SIM)	Water, Soil	Indeno(1-2-1-cd)pyrene	US EPA 8270 GC/MS
EP075 (SIM)	Water, Soil	Naphthalene	US EPA 8270 GC/MS
EP075 (SIM)	Water, Soil	Phenanthrene	US EPA 8270 GC/MS
EP075 (SIM)	Water, Soil	Pyrene	US EPA 8270 GC/MS
EP075 (SIM)	Water, Soil	Sum of Polycyclic Aromatic Hydrocarbon	US EPA 8270 GC/MS
EP080	Water, Soil	TPH (C6-C9)	US EPA 8260 P&T/GC/MS
EP081	Water, Soil	Aliphatic / Aromatic TPH (C5-C6)	US EPA 8260 P&T/GC/MS
FC001	Food, Feed	Determination of Total Kjeldahl Nitrogen by Titration and Protein Calculation from Measured Value	AOAC 991.20-23; ISO 8968



<b><u>ALS Method Code(s)</u></b>	<b><u>Matrices</u></b>	<b><u>Parameter/Analyte(s)</u></b>	<b><u>Reference(s)</u></b>
FC002	Food, Feed, Beverages	Determination of pH by Potentiometry	ISO 2917, 1842
FC003	Fruit Juices, Food (Water Soluble)	Determination of Titratable Acidity by Titrimetry	AOAC 942.15; ISO 6091
FC004	Food	Determination of Water Activity	ISO 21807:2004
FC005	Oils/Fats, Beverages	Determination of Density / Relative Density by Digital Density Meter	In-house Method
FC006	Food	Determination of Water by Karl Fischer Method	AOAC 991.02, 977.10, 2001.12; ISO 5536
FC007	Food, Feed	Determination of Dry Matter by Gravimetry	ISO 5534
FC008	Food	Determination of Ash by Gravimetry	AOAC 942.05, 945.43, 923.03
FC009	Food	Determination of Total Dietary Fiber by an Enzymatic – Gravimetric Method	AOAC 985.29
FC010	Food, Beverages, Fruits, Vegetable Products	Determination of Soluble Solids (Total) by Refractometric Method	AOAC 932.12, 932.14, 970.59, 976.20, 983.17; ISO 2173
FC011	Food, Feed	Determination of Chloride by Titrimetry and Salt (as NaCl) by Calculation	AOAC 935.43, 935.47, 937.09, 941.13, 941.18
FC012	Oils/Fats	Refractive Index of Fats and Oils by Refractometer	AOAC 921.08
FC013	Foods & Food Products	Determination Total Sugars by Titrimetry	AOAC 923.09
FC014	Food & Fortified Food Products, Infant Formula, Fortified Beverages	Determination of Nutritional Elements in Food and Fortified Food Products by ICP-AES:  (Al, Ca, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, Se, P, Zn)	AOAC 984.27
FC018	Oils/Fats	Volumetric Determination of Peroxide Value	AOAC 965.3; ISO 3960:2007
FC023	Food & Food Products	Determination of Moisture / Loss on Drying by Gravimetry	ISO 712:2009; AOAC 19 <sup>th</sup> Edition
FC026	Foods	Cholesterol	JAOAC Int., vol. 76, No.4, 1993, pp. 902-906
FC028	Foods, Oils/Fats	Free Fatty Acids	AOAC 940.28

<u>ALS Method Code(s)</u>	<u>Matrices</u>	<u>Parameter/Analyte(s)</u>	<u>Reference(s)</u>
FC029	Foods	Energy by Calculation	FAO 2003; FSANZ Guide Std. 1.2.8
FC036	Food, Fortified Food Products, Fortified Beverages	Determination of Vitamin C by Liquid Chromatography	JAOAC 48(6) 1248-1256
FC037	Food & Fortified Food Products	Determination of Carbohydrates	Calculation
FC038	Dairy & Dairy Products	Determination of Total Fats in Dairy by Mojonnier Method	AOAC 932.06; ISO 1211:2010, 1735:2004
FC039	Foods, Special Foods, Beverages	Determination of Trace Elements in Food and Food Products by ICP-MS (Arsenic, Cadmium, Mercury, and Lead)	EN 15763:2009
FC041	Food & Food Products	Determination of Fatty Acids Profile by Gas Chromatography	AOAC 969.33; AOCS Ce 2b-11, AOCS Ce 1k-09
FC042	Special Foods, Foods, Beverages	Determination of Total Sugars and Sugar Profile by Liquid Chromatography	AOAC 982.14, 977.20
FC043	Food & Food Products	Determination of Total Fats by Gravimetry	AOAC 996.06, 945.44, 945.02, 935.37, 922.03, 991.36, 963.15
FC044	Food & Food Products	Determination of Chloride and Salt as NaCl by Potentiometry	AOAC 971.27; ISO 1841-2:1996, 5943:2006
FC053	Oils/Fats	Determination of Saponification Value by Titrimetry	AOAC 920.16
FC058	Oils/Fats	Determination of Iodine Value by Titrimetry	AOAC 993.20
ME-MS81	Rock	Litho geochemistry by ICP-MS:  (Ba, Ce, Cr, Cs, Dy, Er, Eu, Ga, Gd, Hf, Ho, La, Lu, Nb, Nd, Pr, Rb, Sm, Sn, Sr, Ta, Tb, Th, Tm, U, V, W, Y, Zr)	In-house Method
PE100	Oil	Salts in Crude Oil by Electrometric Method	ASTM D3230-13
PE112	Oil, Fuel	Density, Relative Density and API Gravity of Liquids by Digital Density Meter	ASTM D4052-16
PE112A-SA	Oil	Density and Relative Density of Crude Oil by Digital Density Meter	ASTM D5002-16

<u>ALS Method Code(s)</u>	<u>Matrices</u>	<u>Parameter/Analyte(s)</u>	<u>Reference(s)</u>
PE112B-SA	Bitumen, Asphalt, Soft Tar	Density of Semi-Solid Bituminous Material by Pycnometer	ASTM D70-17
PE954	Oil, Fuel	Flash Point by Pensky Martens Closed Cup Tester	ASTM D93-16a
PE966-SA	Oil, Fuel (Petroleum)	Dynamic Viscosity by Stabinger Viscometer and Calculation of Kinematic Viscosity	ASTM D7042-16
PE969-SA	Oil, Fuel	Water by KF Volumetric Titration	ASTM E203-08, D4377-2011
PE970	Oil, Fuel	Water and Sediment by the Centrifuge Method	ASTM D1796-11 (2016)





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