



TURKISH ACCREDITATION AGENCY

ACCREDITATION CERTIFICATE

As a Testing Laboratory,

ENCON LABORATUVARI A.Ş.

Reşit Galip Caddesi No:120 Gaziosmanpaşa 06700 ANKARA /
TURKEY

is accredited in accordance with TS EN ISO/IEC 17025:2017 standard within the scope given in Annex following the assessment conducted by TURKAK.

Accreditation Number : AB-0168-T

Accreditation Date : 28 January 2009

Revision Date / Number : 20 December 2021 / 014

This certificate shall remain in force until 21 September 2025, subject to continuing compliance with the standard TS EN ISO/IEC 17025:2017, related regulations and requirements.



A handwritten signature in blue ink that reads "Banu MÜDERRİSOĞLU".

G. Banu MÜDERRİSOĞLU
Secretary General

Turkish Accreditation Agency (TÜRKAK) is a signatory to the European co-operation for Accreditation (EA) Multilateral Agreement (MLA) and International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Agreement (MRA) in the scope of ISO/IEC 17025.

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Accreditation Scope

 Test TS EN ISO/IEC 17025 AB-0168-T	ENCON LABORATUVARI A.Ş. Accreditation Nr: AB-0168-T Revision Nr: 014 Date: 20.12.2021
	As a Testing Laboratory

Address: Reşit Galip Caddesi No:120 Gaziosmanpaşa 06700 ANKARA/TÜRKİYE	Phone : 0 312 447 71 22 Fax : 0 312 447 69 88 E-Mail : encon@encon.com.tr Website : www.encon.com.tr
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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Water	Sampling from Rivers and Streams	TS ISO 5667-6
Water	Sampling from Lakes, Natural and Man-Made	TS ISO 5667-4
Water	Sampling of Groundwaters	TS ISO 5667-11
Water	Determination of pH Electrometric Method	SM 4500-H* B
Water	Determination of Conductivity Laboratory Method	SM 2510 B
Water	Determination of Temperature Laboratory and Field Method	SM 2550 B
Water	Determination of Salinity Electrical Conductivity Method	SM 2520 B
Water	Determination of Turbidity Nephelometric Method	SM 2130 B
Water	Determination of Colour Spectrophotometric Method	SM 2120 C
Water	Determination of Colour Spectrophotometric Method	TS EN ISO 7887 B
Water	Determination of Hardness EDTA Titrimetric Method	SM 2340 C
Water	Determination of Calcium EDTA Titrimetric Method	SM 3500-Ca B
Water	Determination of Alkalinity Titrimetric Method	SM 2320 B
Water	Determination of Free Carbon Dioxide (CO ₂) Titrimetric Method	SM 4500-CO ₂ C
Water	Determination of Acidity Titrimetric Method	SM 2310 B
Water	Determination of Dissolved Oxygen Membrane Electrode Method	SM 4500-O G
Water	Determination of Chemical Oxygen Demand Open Reflux -Titrimetric Method	SM 5220 B
Water	Determination of Chemical Oxygen Demand Open Reflux-Titrimetric Method	TS 2789
Water	Determination of Biochemical Oxygen Demand 5 Day BOD Test	SM 5210 B
Water	Determination of Total Solids Gravimetric Method	SM 2540 B

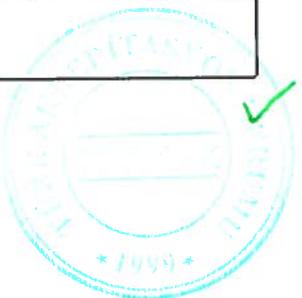


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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Water	Determination of Total Dissolved Solids Gravimetric Method	SM 2540 C
Water	Determination of Total Suspended Solids Gravimetric Method	SM 2540 D
Water	Determination of Volatile Solids Gravimetric Method	SM 2540 E
Water	Determination of Settleable Solids Volumetric Method	SM 2540 F
Water	Determination of Hydrocarbons, Tar and Petroleum Based Products Pre-Treatment:Solvent Extraction Pre-Treatment:Micro Separation Pre-Treatment:Florisil Cleanup Measurement:GC - FID Method	TS EN ISO 9377-2
Water	Determination of Oil and Grease Pre-Treatment: Solvent Extraction Method Measurement: Gravimetric Method	SM 5520 B
Water	Determination of Ammonium / Ammonium Nitrogen Pre-Treatment: Distillation Method Measurement: Titrimetric Method	SM 4500-NH ₃ B SM 4500-NH ₃ C
Water	Determination of Total Kjeldahl Nitrogen (TKN) Macro Kjeldahl Method	SM 4500-N _{org} B
Water	Determination of Nitrate / Nitrate Nitrogen Spectrophotometric Method	EPA 352.1
Water	Determination of Nitrite / Nitrite Nitrogen Spectrophotometric Method	SM 4500-NO ₂ B
Water	Determination of Phosphate / Phosphate Phosphorus Spectrophotometric Method	SM 4500-P E
Water	Determination of Total Phosphorus Pre-Treatment: Digestion Method Measurement: Spectrophotometric Method	SM 4500-P B SM 4500-P E
Water	Determination of Sulfur Titrimetric Method	SM 4500-S ²⁻ F
Water	Determination of Sulfur Spectrophotometric Method	SM 4500-S ²⁻ D
Water	Determination of Sulphate Spectrophotometric Method	SM 4500-SO ₄ ²⁻ E
Water	Determination of Sulfite Titrimetric Method	SM 4500- SO ₃ ²⁻ B
Water	Determination of Fluoride, Chloride, Sulphate, Nitrite, Nitrate , Bromide, Phosphate IC Method	SM 4110 B

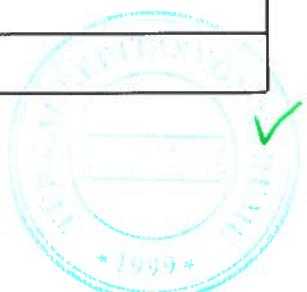


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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Water	Determination of Chlorophyll-a Spectrophotometric Method	EPA 446.0
Water	Determination of Anionic Surfactants (MBAS) Pre-Treatment: Surfactant Separation by Sublation Measurement: Spectrophotometric Method	SM 5540 B SM 5540 C
Water	Determination of Chloride Titrimetric Method	SM 4500-Cl ⁻ B
Water	Determination of Fluoride Pre-Treatment: Distillation Method Measurement: SPADNS Method	SM 4500 F ⁻ B SM 4500 F ⁻ D
Water	Determination of Chromium (VI) Spectrophotometric Method	SM 3500-Cr B
Water	Determination of Free Chlorine Spectrophotometric Method	SM 4500-Cl G
Water	Determination of Bound Chlorine Spectrophotometric Method	SM 4500 Cl G
Water	Determination of Total Chlorine Spectrophotometric Method	SM 4500 Cl G
Water	Determination of Total Cyanide Pre-Treatment: Distillation Method Measurement: Spectrophotometric Method	SM 4500-CN C SM 4500-CN E
Water	Determination of Free Cyanide Spectrophotometric Method	SM 4500-CN E
Water	Determination of Phenols Pre-Treatment: Distillation Method Measurement: Spectrophotometric Method	SM 5530 B SM 5530 C
Water	Determination of Permanganat Index Titrimetric Method	TS 6288 EN ISO 8467
Water	Determination of Aluminium (Al), Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Boron (B), 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), Tin (Sn), Titanium (Ti), Vanadium (V), Zinc (Zn), Bismuth (Bi), Silicium (Si), Zirconium (Zr) Pre-Treatment: Filtration Pre-Treatment: Microwave Acidic Extraction Measurement: ICP-OES Method	EPA 3015 A EPA 200.7
Water	Determination of Light Transmittance Secchi Disk Method	EPA 841-B-97-003



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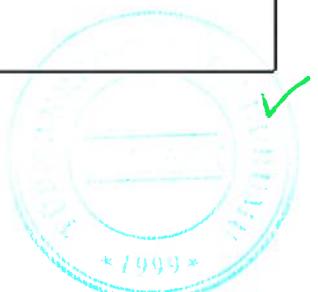
Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Water	Determination of Light Transmittance/Secchi Disc Depth Measurement: Disk Method	TS EN ISO 7027-2
Water	Determination of Weak Acid Dissociable Cyanide Pre-Treatment: Distillation Method Measurement:Spectrophotometric Method	SM 4500 CN C SM 4500 CN I SM 4500 CN E
Water	Determination of Redox Potential (ORP) Electrode Method	SM 2580 B
Water	Determination of Volatile Organic Compounds (VOCs) (2-Hexanone, Methyl Tert Butyl Ether (MTBE), 4 -Methyl-2-pentanone, Acrylonitrile, Allyl chloride(3 -Chloropropene), Diethyl ether (ethyl ether), Iodomethane, Bromodichloromethane, Dibromochloromethane, cis-1,2 -Dichloroethene, trans-1,2 -Dichloroethene, 1,1-Dichloroethene, Bromochloromethane, Bromoform, Carbotetrachloride, Dibromomethane, 1,1 -Dichloroethane, 1,1,1-Trichloroethane, Tetrachloroethene, 1,2-Dibromo-3-chloropropane, 1,2-Dibromoethane, 1,2 -Dichloroethane, 1,2 -Dichloropropane, 1,3 -Dichloropropane, 1,1Dichloropropane, cis-1,3-Dichloropropene, trans-1,3 -Dichloropropene, Hexachloro-1,3 -butadiene, 1,1,1,2-Tetrachloroethane, Ethylmethacrylate, 1,1,2-Trichloroethane, Trichloroethene, 1,2,3-Trichloropropane, Benzene, Bromobenzene, n-butylbenzene, Ethyl benzene, p-isopropyl toluene, Naphthalene, Styrene, Toluene, 1,2,3 -Trichlorobenzene, 1,2,4 -Trichlorobenzene, 1,2,4 -Trimethylbenzene, 1,3,5 -Trimethylbenzene, m-Xylene, tert-butylbenzene, sec-butyl benzene, Chlorobenzene, 2 -Chlorotoluene, 4 -Chlorotoluene, 1,2 -Dichlorobenzene, 1,3-Dichlorobenzene, 1,4 -Dichlorobenzene, Isopropylbenzene, n-propylbenzene, o-Xylene, p-Xylene) Pre-Treatment: Headspace Measurement: GC-MS Method	EPA 5021 A EPA 8260 D



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Water	Determination of Organochlorine Pesticides Pentachlorobenzene, Trifluorilin, Alfa HCH, Hexachlorobenzene, Beta HCH, Heptachlorine, Gama HCH, Aldrin, Isobenzene, Isodrin, Heptachlorine-exo-epoksit, 2,4-DDE, Alfa Endosulfan, Dieldrin, 4,4 -DDE, 2,4-DDD, Endrin, 2,4 -DDT, Beta Endosulfan, 4,4-DDD, 4,4-DDT, Cypermethrin, Chlorpyrifos, Chlorgenvinfos, Alachlor, Chlorathalonil, Chlorobenzilate, Dichlobenil, Vinclozolin, Permethrin I, Permethrin II, Hexachloro 1,3-butadiene, Captan Pre-Treatment: Liquid Liquid/Solid Phase Extraction Pre-Treatment: Alumina Clean-up Pre-Treatment: Florisil Clean-up Pre-Treatment: Silicagel Clean-up Pre-Treatment: Sulfur Removal Measurement: GC-ECD Method	EPA 3510 C EPA 3535 A EPA 3610 B EPA3620 C EPA 3630 C EPA 3660 B EPA 8081 B
Water	Determination of Sulfite Spectrophotometric Method	SM 4500 SO ₃ ²⁻ C
Water	Determination of Silver (Ag), Aluminium (Al), Arsenic (As), Barium (Ba), Beryllium (Be), Calcium (Ca), Cadmium (Cd), Cobalt (Co), Chromium (Cr), Copper (Cu), Iron (Fe), Mercury (Hg), Potassium (K), Magnesium (Mg), Manganese (Mn), Sodium (Na), Nickel (Ni), Lead (Pb), Antimony (Sb), Selenium (Se), Thallium (Tl), Vanadium (V), Zinc (Zn) Pre-Treatment: Filtration Pre-Treatment: Microwave Acidic Extraction Measurement: ICP-MS Method	EPA 3015 A EPA 6020 B
Water	Determination of Gold (Au), Boron (B), Bismuth (Bi), Gallium (Ga), Lanthanum (La), Lithium (Li), Molybdenum (Mo), Phosphorus (P), Silicium (Si), Tin (Sn), Strontium (Sr), Tellurium (Te), Thorium (Th), Titanium (Ti), Uranium (U), Tungsten (W), Zirconium (Zr) Pre-Treatment: Filtration Pre-Treatment: Microwave Acidic Extraction Measurement: ICP-MS Method	TS EN ISO 15587-1 TS EN ISO 15587-2 TS EN ISO 17294-1/2
Water	Determination of Ammonium /Ammonium Nitrogen Pre-Treatment: Distillation Method Measurement: Spectrophotometric Method	SM 4500-NH ₃ B SM 4500-NH ₃ F



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Water	Determination of Pesticides 2,4 Acid, 2,4,5 -T, Aclonifen, Atrazine, Bentazone, Bifenox, Boscalid, Bromoxynil, Carbaryl, Carbendazim, Carbofuran, Chlorfenvinphos, Clothianidin, Cybutyrin, Dichlorvos, Dimethoate, Diuron, Ethoprospos, ETU, Femarimol, Fenthion, Hexythiazox, Imazalil, Imidachloprid, Isoproturon, Linuron, Malathion, MCA, Metalaxylyl, Methidathion, Methomyl, Methoxyfenozide, Metolachlor, Molinate, Monocrotophos, Myclobutanil, Omethoate, Oxadiazone, Oxadixil, Parathion, Pendimethalin, Piperonyl butoxide, Primicarb, Propazine, Propiconazole, Propyzamide, Quinoxifen, Terbutylin, Thiophonate methyl, Triadimenol, Tribenuron methyl, Triclosan, Tritosulfuron Pre-Treatment: Filtration Measurement: LC MS-MS Method	Inhouse Method- ENC.LABTL.LCP.176-Rev01/28.09.2017 (EPA 538, 5990-4523 EN Agilent Application Notes)



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Water	Determination of Volatile Organic Compounds (VOCs) Acetone, Diethylether, 1,1-dichloroethene, iodomethane, Acrylonitrile, Dichloromethane, Allylchloride, Carbondisulphide, trans-1,2-dichloroethene, 1,1-dichloroethane, cis-1,2-dichloroethene, Bromochloromethane, 2,2-dichloropropane, Methylacrylate, Tetrahydrofuran, 1,1-dichloropropene, Dibromomethane, 1,2-dichloropropane, Epichloridin, cis-1,3-dichloropropene, 4-methyl-2-pentanone, trans-1,3-dichloropropene, 1,1,2-trichloroethane, 1,3-dichloropropane, Ethylmethacrylate, 1,2-dibromoethane, 1,1,1,2-tetrachloroethane, Chlorobenzene, 1,2,3-trichloropropane, trans-1,4-dichloro-2-butene, isopropylbenzene, Bromobenzene, n-propylbenzene, 2-chlorotoluene, 4-chlorotoluene, 1,3,5-trimethylbenzene, tertbutylbenzene, sec-butylbenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,2-dichlorobenzene, n-butylbenzene, 1,2-dibromo-3-chloropropane, Hexachloroethane, 1,3,5-trichlorobenzene, Chloroform, Bromodichloromethane, Dibromochloromethane, Trichloroethene, 1,2-Dichloroethane, Benzene, Styrene, m-Xylene, Methyl Tert Butyl Ether (MTBE), Hexachlorobutadiene, 1,1,1-Trichloroethane, 1,2,3-Trichlorobenzene Pre-Treatment: Purge and Trap Method Measurement: GC-MS Method	EPA 5030 C EPA 8260 C
Water	Determination of PCBs (Polychlorinated Biphenyls) (18, 20, 28, 31, 44, 52, 101, 105, 118, 138, 149, 153, 170, 180, 194) Pre-Treatment: Liquid-Liquid Extraction Pre-Treatment: Sulfuric acid/Permanganate Clean-up Measurement: GC-ECD Method	EPA 3510 C EPA 3665 A EPA 8082 A



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Water	Determination of PAH (Polynuclear Aromatic Hydrocarbons) (Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene Benzo(k)fluoranthene, Chrysene, Carbazole, Dibenz(a,h)anthracene Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Phenanthrene, Pyrene) Pre-Treatment: Liquid-Liquid Extraction Method Measurement: GC-MS Method	EPA 3510 C EPA 8270 E
Waste water	Sampling From Wastewaters	TS ISO 5667-10
Waste water	Determination of pH Electrometric Method	SM 4500-H ⁺ B
Waste water	Determination of Conductivity Laboratory Method	SM 2510 B
Waste water	Determination of Temperature Laboratory and Field Method	SM 2550 B
Waste water	Determination of Salinity Electrical Conductivity Method	SM 2520 B
Waste water	Determination of Turbidity Nephelometric Method	SM 2130 B
Waste water	Determination of Colour Spectrophotometric Method	SM 2120 C
Waste water	Determination of Colour Spectrophotometric Method	TS EN ISO 7887 B
Waste water	Determination of Calcium EDTA Titrimetric Method	SM 3500-Ca B
Waste water	Determination of Alkalinity Titrimetric Method	SM 2320 B
Waste water	Determination of Dissolved Oxygen Azide Modification Method	SM 4500-O C
Waste water	Determination of Dissolved Oxygen Membrane Electrode Method	SM 4500-O G
Waste water	Determination of Dissolved Oxygen Iodometric Method	SM 4500-O B
Waste water	Determination of Dissolved Oxygen and Oxygen Saturation Measurement: Luminescence Method	ASTM D888 Metot C
Waste water	Determination of Chemical Oxygen Demand Open Reflux - Titrimetric Method	SM 5220 B
Waste water	Determination of Chemical Oxygen Demand Open Reflux-Titrimetric Method	TS 2789

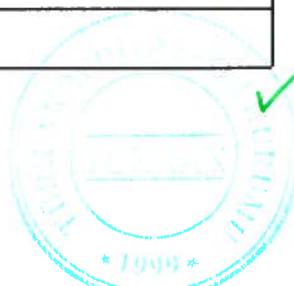


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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Waste water	Determination of Biochemical Oxygen Demand 5 Day BOD Test	SM 5210 B
Waste water	Determination of Total Solids Gravimetric Method	SM 2540 B
Waste water	Determination of Total Dissolved Solids (TDS) Gravimetric Method	SM 2540 C
Waste water	Determination of Total Suspended Solids Gravimetric Method	SM 2540 D
Waste water	Determination of Volatile Solids Gravimetric Method	SM 2540 E
Waste water	Determination of Settleable Solids Volumetric Method	SM 2540 F
Waste water	Determination of Hydrocarbon Oil Index Pre-Treatment:Solvent Extraction Pre-Treatment:Micro Separation Pre-Treatment:Florisil Cleanup Measurement: GC - FID Method	TS EN ISO 9377-2
Waste water	Determination of Oil and Grease Pre-Treatment: Solvent Extraction Method Measurement: Gravimetric Method	SM 5520 B
Waste water	Determination of Ammonium / Ammonium Nitrogen Pre-Treatment: Distillation Method Measurement: Titrimetric Method	SM 4500-NH ₃ B SM 4500-NH ₃ C
Waste water	Determination of Total Kjeldahl Nitrogen (TKN) Macro Kjeldahl Method	SM 4500-N _{org} B
Waste water	Determination of Nitrate /Nitrate Nitrogen Spectrophotometric Method	EPA 352 1
Waste water	Determination of Nitrite /Nitrite Nitrogen Spectrophotometric Method	SM 4500-NO ₂ B
Waste water	Determination of Phosphate / Phosphate Phosphorus Spectrophotometric Method	SM 4500-P E
Waste water	Determination of Total Phosphorus Pre-Treatment: Digestion Method Measurement: Spectrophotometric Method	SM 4500-P B SM 4500-P E
Waste water	Determination of Sulfur Titrimetric Method	SM 4500-S ²⁻ F
Waste water	Determination of Sulfur Spectrophotometric Method	SM 4500-S ²⁻ D
Waste water	Determination of Sulphate Spectrophotometric Method	SM 4500-SO ₄ ²⁻ E
Waste water	Determination of Sulfite Titrimetric Method	SM 4500-SO ₃ ²⁻ B



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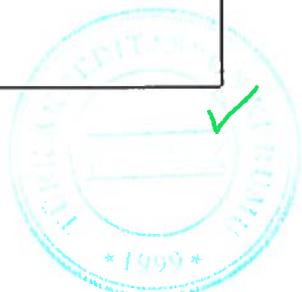
Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Waste water	Determination of Sulfite Spectrophotometric Method	SM 4500-SO ₃ ²⁻ C
Waste water	Determination of Fluoride, Chloride, Sulfate, Nitrite, Nitrate, Bromide, Orthophosphate IC Method	SM 4110 B
Waste water	Determination of Anionic Surfactants (MBAS) Pre-Treatment: Surfactant Separation by Sublation Measurement: Spectrophotometric Method	SM 5540 B SM 5540 C
Waste water	Determination of Chloride Titrmetric Method	SM 4500-Cl ⁻ B
Waste water	Determination of Fluoride Pre-Treatment: Distillation Method Measurement: SPADNS Method	SM 4500-F B SM 4500-F D
Waste water	Determination of Chromium (VI) Spectrophotometric Method	SM 3500-Cr B
Waste water	Determination of Free Chlorine Spectrophotometric Method	SM 4500 Cl ⁻ G
Waste water	Determination of Bound Chlorine Spectrophotometric Method	SM 4500-Cl G
Waste water	Determination of Total Chlorine Spectrophotometric Method	SM 4500-Cl G
Waste water	Determination of Total Cyanide Pre-Treatment: Distillation Method Measurement: Spectrophotometric Method	SM 4500-CN C SM 4500-CN E
Waste water	Determination of Free Cyanide Spectrophotometric Method	SM 4500-CN E
Waste water	Determination of Phenol Pre-Treatment: Distillation Method Measurement: Spectrophotometric Method	SM 5530 B SM 5530 C
Waste water	Determination of Weak Acid Dissociable Cyanide Pre-Treatment: Distillation Method Measurement: Spectrophotometric Method	SM 4500 CN C SM 4500 CN I SM 4500 CN E
Waste water	Determination of Redox Potential (ORP) Electrode Method	SM 2580 B
Waste water	Determination of Flow Measurement Flow Method	EPA 841-B-97-003



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Waste water	<p>Determination of Aluminium (Al), Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Boron (B), 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), Tin (Sn), Titanium (Ti), Vanadium (V), Zinc (Zn), Bismuth (Bi), Silicium (Si), Zirconium (Zr)</p> <p>Pre-Treatment: Filtration</p> <p>Pre-Treatment: Microwave Extraction Method</p> <p>Measurement: ICP-OES Method</p>	SM 3015 A EPA 200 7
Waste water	<p>Determination of Volatile Organic Compounds (VOCs)</p> <p>2-Hexanone, Methyl Tert Butyl Ether(MTBE), 4 -Methyl-2-pentanone, Acrylonitrile, Aliyi chloride(3 -Chloropropene), Diethyl ether (ethylether), Iodomethane, Bromodichloromethane, Dibromochloromethane, cis-1,2- Dichloroethene, trans-1,2- Dichloroethene, 1,1- Dichloroethene, Bromochloromethane, Carbontetrachloride, Dibromomethane, 1,1 -Dichloroethane, 1,1,1-Trichloroethane, Tetrachloroethene, 1,2-Dibromo-3-chloropropane, 1,2- Dibromoethane 1,2 -Dichloroethane, 1,2-Dichloropropane, 1,3 -Dichloropropane, 1,1-Dichloropropane, cis-1,3 -Dichloropropene, trans-1,3- Dichloropropene Hexachloro-1,3- butadiene, 1,1,1,2 -Tetrachloroethane, Ethylmethacrylate, 1,1,2-Trichloroethane, Trichloroethene, 1,2,3-Trichloropropane, Benzene, Bromobenzene, n-butylbenzene, Ethylbenzene, p-isopropyltolüene, Naptthalene, Styrene, Toluene, 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,3,5-Trimethylbenzene, m-Xylene, tert- butylbenzene, sec-butyl benzene, Chlorobenzene, 2-Chlorotoluene, 4-Chlorotoluene, 1,2 -Dichlorobenzene, 1,3-Dichlorobenzene, Isopropylbenzene, n-propylbenzene, o-Xylene, p-Xylene, Bromoform, 1,2,4 -Trimethylbenzene</p> <p>Pre-Treatment: Headspace</p> <p>Measurement:GC-MS Method</p>	EPA 5021 A EPA 8260 D

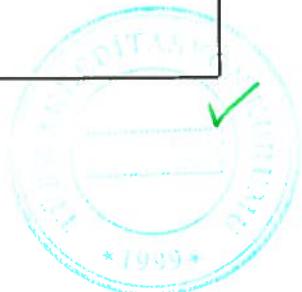


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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Waste water	Determination of Volatile Organic Compounds (VOCs) 1,2-Dichloroethane, 1,2-Dichloropropane, 1,3-Dichloropropane, 1,1-Dichloropropane, cis-1,3-Dichloropropene, trans-1,3-Dichloropropene Hexachloro-1,3-butadiene, 1,1,1,2-Tetrachloroethane, Ethylmethacrylate, 1,1,2-Trichloroethane, Trichloroethene, 1,2,3-Trichloropropane, Benzene, Bromobenzene, n-butylbenzene, Ethylbenzene, p-isopropyltolüene, Naphthalene, Styrene, Toluene, 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2,4-Trimethylbenzene, 1,3,5-Trimethylbenzene, m-Xylene, tert-butylbenzene, sec-butyl benzene, Chlorobenzene, 2-Chlorotoluene, 4-Chlorotoluene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, Isopropylbenzene, n-propylbenzene, o-Xylene, p-Xylene Pre-Treatment: Headspace Measurement: GC-MS Method	EPA 5021 A EPA 8260 D
Waste water	Determination of Organochlorine Pesticides Pentachlorobenzene, Trifluarilin, Alfa HCH, Hexachlorobenzene, Beta HCH, Heptachlorine, Gama HCH, Aldrin, Isobenzene, Isodrin, Heptachlorine-exo-epoksit, 2,4-DDE, Alfa Endosulfan, Dieldrin, 4,4 -DDE, 2,4-DDD, Endrin, 2,4-DDT, Beta Endosulfan, 4,4-DDD, 4,4-DDT, Cypermethrin, Chlorpyrifos, Chlорfenvinfos, Alachlor, Chlorathalonil, Chlorobenzilate, Dichlobenil, Vinclozolin, Permethrin I, Permethrin II, Hexachloro 1,3-butadiene, Captan Pre-Treatment: Liquid Liquid/Solid Phase Extraction Pre-Treatment: Alumina Clean-up Pre-Treatment: Florisil Clean-up Pre-Treatment: Silicagel Clean-up Pre-Treatment: Sulfur Removal Measurement: GC-ECD Method	EPA 3510 C EPA 3535 A EPA 3610 B EPA 3620 C EPA 3630 C EPA 3660 B EPA 8081 B



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Waste water	Determination of Silver (Ag), Aluminium (Al), Arsenic (As), Barium (Ba), Beryllium (Be), Calcium (Ca), Cadmium (Cd), Cobalt (Co), Chromium (Cr), Copper (Cu), Iron (Fe), Mercury (Hg), Potassium (K), Magnesium (Mg), Manganese (Mn), Sodium (Na), Nickel (Ni), Lead (Pb), Antimon (Sb), Selenium (Se), Vanadium (V), Zinc (Zn) Pre-Treatment: Filtrasyon Pre-Treatment: Microwave Digestion Method Measurement: ICP-MS Method	EPA 3015 A EPA 6020 B
Waste water	Determination of Gold (Au), Boron (B), Bismuth (Bi), Gallium (Ga), Lanthanum (La), Lithium (Li), Molybdenum (Mo), Phosphorus (P), Silicium (Si), Tin (Sn), Strontium (Sr), Tellurium (Te), Thorium (Th), Titanium (Ti), Uranium (U), Tungsten (W), Zirconium (Zr) Pre-Treatment: Filtrasyon Pre-Treatment: Microwave Digestion Method Measurement: ICP-MS Method	TS EN ISO 15587-1 TS EN ISO 15587-2 TS EN ISO 17294-1/2
Waste water	Determination of Ammonium /Ammonium Nitrogen Pre-Treatment: Distillation Method Measurement: Spectrophotometric Method	SM 4500-NH ₃ B SM 4500-NH ₃ F
Waste water	Determination of Pesticides 2,4 Acid, 2,4,5 -T, Aclonifen, Atrazine, Bentazone, Bifenox, Boscalid, Bromoxynil, Carbaryl, Carbendazim, Carbofuran, , Chlorgenvinphos, Clothianidin, Cybutyrin, , Dichlorvos, Dimethoate, Diuron, Ethoprospos, ETU, Femarimol, Fenthion, Hexythiazox, Imazalil, Imidachloprid, Isoproturon, Linuron, Malathion, MCA, Metalaxylyl, Methidathion, Methomyl, Methoxyfenozide, Metolachlor, Molinate, Monocrotophos, Myclobutanil, Omethoate, Oxadiazone, Oxadixil, Parathion, Pendimethalin, Piperonyl butoxide, Primicarb, Propazine, Propicanazole, Propyzamide, Quinoxifen, Terbutyryl, Thiophonate methyl, Triadimenol, Tribenuron methyl, Triclosan, Tritosulfuron Pre-Treatment: Microfiltration Measurement: LC-MS/MS Method	Inhouse Method- ENC.LABTL.LCP.176- Rev01/28.09.2017 (EPA 538, 5990-4523 EN Agilent Application Notes)

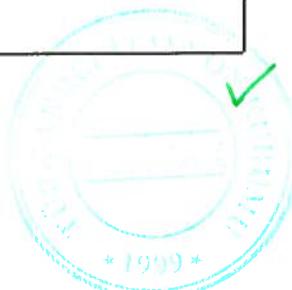


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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Waste water	Volatile Organic Compounds (VOCs) Acetone, Diethylether, 1,1-dichloroethene, iodomethane, Acrylonitrile, Dichloromethane, Allylchloride, Carbondisulphide, trans-1,2-dichloroethene, 1,1-dichloroethane, cis-1,2-dichloroethene, Bromochloromethane, 2,2-dichloropropane, Methylacrylate, Tetrahydrofuran, 1,1-dichloropropene, Dibromomethane, 1,2-dichloropropane, Epichloridin, cis-1,3-dichloropropene, 4-methyl-2-pentanone, trans-1,3-dichloropropane, 1,1,2-trichloroethane, 1,3-dichloropropane, Ethylmethacrylate, 1,2-dibromoethane, 1,1,1,2-tetrachloroethane, Chlorobenzene, 1,2,3-trichloropropane, trans-1,4-dichloro-2-butene, isopropylbenzene, Bromobenzene, n-propylbenzene, 2-chlorotoluene, 4-chlorotoluene, 1,3,5-trimethylbenzene, tertbutylbenzene, sec-butylbenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,2-dichlorobenzene, n-butylbenzene, 1,2-dibromo-3-chloropropane, Hexachloroethane, 1,3,5-trichlorobenzene, Chloroform, Bromodichloromethane, Dibromochloromethane, Trichloroethene, 1,2-Dichloroethane, Benzene, Styrene, m-Xylene, Methyl Tert Butyl Ether (MTBE), Hexachlorobutadiene, 1,1,1-Trichloroethane, 1,2,3-Trichlorobenzene Pre-Treatment: Purge and Trap Method Measurement: GC-MS Metodu	EPA 5030 C EPA 8260 C
Waste water	Determination of PCBs (Polychlorinated Biphenyls) (18, 20, 28, 31, 44, 52, 101, 105, 118, 138, 149, 153,170, 180, 194) Pre-Treatment: Liquid-Liquid Extraction Pre-Treatment: Sulfuric acid/Permanganate Clean-up Measurement: GC-ECD Method	EPA 3510 C EPA 3665 A EPA 8082 A

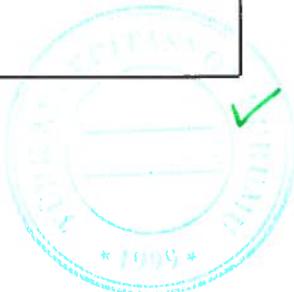


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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Waste water	Determination of PAH (Polynuclear Aromatic Hydrocarbons) (Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene Benzo(k)fluoranthene, Chrysene, Carbazole, Dibeno(a,h)anthracene Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Phenanthrene, Pyrene) Pre-Treatment: Liquid-Liquid Extraction Method Measurement: GC-MS Method	EPA 3510 C EPA 8270 E
Sea water	Sampling From Sea water	TS ISO 5667-9
Sea water	Determination of pH Electrometric Method	SM 4500-H*B
Sea water	Determination of Turbidity Nephelometric Method	SM 2130 B
Sea water	Determination of Salinity Electrical Conductivity Method	SM 2520 B
Sea water	Determination of Temperature Laboratory and Field Method	SM 2550 B
Sea water	Determination of Conductivity Laboratory Method	SM 2510 B
Sea water	Determination of Colour Spectrophotometric Method	SM 2120 C
Sea water	Determination of Colour Spectrophotometric Method	TS EN ISO 7887 B
Sea water	Determination of Total Suspended Solids Gravimetric Method	SM 2540 D
Sea water	Determination of Chlorophyll-a Spectrophotometric Method	EPA 446.0
Sea water	Determination of Nitrate /Nitrate Nitrogen Spectrophotometric Method	EPA 352.1
Sea water	Determination of Nitrite /Nitrite Nitrogen Spectrophotometric Method	SM 4500-NO ₂ ⁻ B
Sea water	Determination of Phosphate/Phosphate Phosphorus Spectrophotometric Method	SM 4500 P E
Sea water	Determination of Total Phosphorus Pre-Treatment: Digestion Method Measurement: Spectrophotometric Method	SM 4500-P B SM 4500-P E

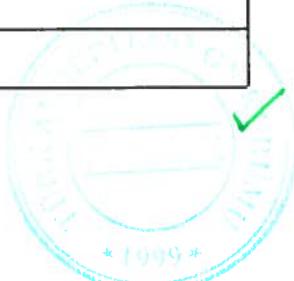


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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Sea water	Determination of Arsenic (As), Cadmium (Cd), Lead (Pb), Mercury (Hg), Copper (Cu), Chromium (Cr), Nickel (Ni), Zinc (Zn), Antimony (Sb), Vanadium (V), Tin (Sn), Boron (B), Aluminium (Al), Cobalt (Co), Selenium (Se), Manganese (Mn), Lithium (Li), Beryllium (Be), Thallium (Tl), Titanium (Ti), Silver (Ag), Bismuth (Bi), Iron (Fe), Barium (Ba), Strontium (Sr) Pre-Treatment: Chloroform Extraction Method Measurement: ICP-OES Method	In-House Method-ENC.LABTL.DÖİ.144 rev00 Methods of Seawater Analysis Third Extended Edition-1999 (Willey-VHC Klaus Grasshoff) EPA 200 7
Sea water	Determination of Dissolved Oxygen and Oxygen Saturation Measurement:Luminance Method	ASTM D888 Metot C
Sea water	Determination of Dissolved Oxygen Electrometric Method	SM 4500 O G
Sea water	Determination of Degradable Organic Pollutants 5 Days BOD Test Method	SM 5210 B
Sea water	Determination of Chemical Oxygen Demand Open Reflux-Titrimetric Method	TS 2789-Annex A



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Sea water	Determination of Volatile Organic Compounds (VOCs) 2-Hexanone, Methyl Tert Butyl Ether(MTBE), 4 -Methyl-2-pentanone, Acrylonitrile, Aliyi chloride(3 -Chloropropene), Diethyl ether (ethylether), Iodomethane, Bromodichloromethane, Dibromochloromethane, cis-1,2-Dichloroethene, trans-1,2-Dichloroethene, 1,1 -Dichloroethene, Bromochloromethane, Carbontetrachloride, Dibromomethane, 1,1 -Dichloroethane, 1,1,1- Trichloroethane, Tetrachloroethene, Dibromo-3 -chloropropane, Dibromoethane, 1,2 -Dichloroethane, 1,2 -Dichloropropane, 1,3 -Dichloropropane, 1,1 -Dichloropropane, cis-1,3 -Dichloropropene, trans-1,3-Dichloropropene Hexachloro-1,3-butadiene, 1,1,1,2- Tetrachloroethane, Ethylmethacrylate,Bromoform,Trichloroethane, Trichloroethene, Trichloropropane, Benzene, Bromobenzene, n-butylbenzene, Ethylbenzene,p-isopropyl tolüene, Naphthalene, Styrene, Toluene, Trichlorobenzene,1,2,4 -Trichlorobenzene, Trimethylbenzene, 1,3,5-T rimethylbenzene, m-Xylene, tert-butylbenzene, sec-butyl benzene, Chlorobenzene, 2 -Chlorotoluene, 4-Chlorotoluene, 1,2 -Dichlorobenzene, 1,3-Dichlorobenzene, 1,4 -Dichlorobenzene, Isopropylbenzene, n-propylbenzene, o-Xylene, p-Xylene Pre-Treatment: Headspace Method Measurement: GC-MS Method	EPA 5021 A EPA 8260 D
Sea water	Determination of Phenol Pre-Treatment: Distillation Method Measurement: Spectrophotometric Method	SM 5530 B SM 5530 C
Sea water	Determination of Hydrocarbon Oil Index Pre-Treatment: Solvent Extraction Pre-Treatment: Micro Separation Pre-Treatment: Florisil Cleanup Measurement: GC-FID Method	TS EN ISO 9377-2
Sea water	Determination of Light Transmittance/Secchi Disc Depth Measurement: Disk Method	TS EN ISO 7027-2

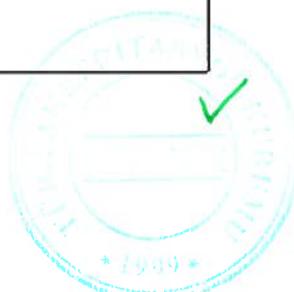


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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Sea water	Determination of Oil and Grease Pre-Treatment: Solvent Extraction Method Measurement: Gravimetric Method	SM 5520 B
Sea water	Determination of Anionic Surfactants (MBAS) Pre-Treatment: Surfactant Separation by Sublation Measurement: Spectrophotometric Method	SM 5540 B SM 5540 C
Sea water	Determination of Total Kjeldahl Nitrogen (TKN) Macro Kjeldahl Method	SM 4500-N _{org} B
Sea water	Determination of Chromium (VI) Spectrophotometric Method	SM 3500-Cr B
Sea water	Determination of Total Cyanide Pre-Treatment: Distillation Method Measurement: Spectrophotometric Method	SM 4500-CN C SM 4500-CN E
Sea water	Determination of Redox Potential (ORP) Electrode Method	SM 2580 B
Sea water	Determination of Ammonium /Ammonium Nitrogen Pre-Treatment: Distillation Method Measurement: Spectrophotometric Method	SM 4500-NH ₃ B SM 4500-NH ₃ F
Sea water	Determination of Pesticides 2,4 Acid, 2,4,5 -T, Aclonifen, Atrazine, Bentazone, Bifenox, Boscalid, Bromoxynil, Carbaryl, Carbendazim, Carbofuran, Chlorfenvinphos, Clothianidin, Cybutyrin,, Dichlorvos, Dimethoate, Diuron, Ethoprospos, ETU, Femarimol, Fenthion, Hexythiazox, Imazalil, Imidachloprid, Isoproturon, Linuron, Malathion, MCA, Metalaxyl, Methidathion, Methomyl, Methoxyfenozide, Metolachlor, Molinate, Monocrotophos, Myclobutanil, Omethoate, Oxadiazone, Oxadixil, Parathion, Pendimethalin, Piperonyl butoxide, Primicarb, Propazine, Propicanazole, Propyzamide, Quinoxifen, Terbutyryin, Thiophonate, methyl,Triadimenol, Tribenuron metliyi, Triclosan, Tritosulfuron Pre-Treatment: Microfiltration Measurement: LC-MS/MS Method	Inhouse Method- ENC.LABTL.LCP.176-Rev01/28.09.2017 (EPA 538, 5990-4523 EN Agilent Application Notes)

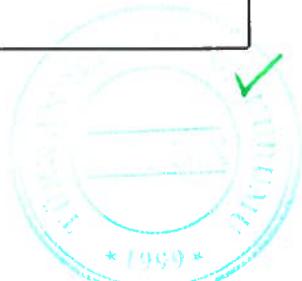


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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Sea water	Determination of PCBs (Polychlorinated Biphenyls) (18, 20, 28, 31, 44, 52, 101, 105, 118, 138, 149, 153,170, 180, 194) Pre-Treatment:Liquid-Liquid Extraction Pre-Treatment:Sulfuric acid/Permanganate Clean-up Measurement: GC-ECD Metodu	EPA 3510 C EPA 3665 A EPA 8082 A
Sea water	Determination of PAH (Polynuclear Aromatic Hydrocarbons) (Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Carbazole, Dibenz(a,h)anthracene Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Phenanthrene, Pyrene) Pre-Treatment: Liquid-Liquid Extraction Method Measurement: GC-MS Method	EPA 3510 C EPA 8270 E
Sewage Sludge	Sludge Sampling From Sewage and Water Treatment Plants	TS ISO 5667-13
Sewage Sludge	Determination of pH Electrometric Method	TS ISO 10390
Sewage Sludge	Determination of Electrical Conductivity Electrometric Method	TS ISO 11265
Sewage Sludge	Determination of Organic Material Titrimetric Method	TS 8336
Sewage Sludge	Determination of Loss on Ignition of Dry Mass Gravimetric Method	TS EN 12879
Sewage Sludge	Determination of Total and Free Cyanide Pre-Treatment: Extraction+Distillation Measurement:Titrimetric Method Measurement: Spectrophotometric Method	EPA 9013 A EPA 9010 C EPA 9014
Sewage Sludge	Determination of Chromium (VI) Pre-Treatment: Alkaline Digestion Method Measurement: Spectrophotometric Method	EPA 3060 A EPA 7196 A
Sewage Sludge	Determination of Total Phosphorus Ascorbic Acid Method	TS ISO 11263
Sewage Sludge	Determination of Total Nitrogen Improved Kjeldahl Method	TS 8337 ISO 11261



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Sewage Sludge	Determination of Antimony (Sb), Arsenic (As), Copper (Cu), Barium (Ba), Boron (B), Mercury (Hg), Zinc (Zn), Silver (Ag), Cadmium (Cd), Tin (Sn), Cobalt (Co), Total Chromium (Cr), Lead (Pb), Molybdenum (Mo), Nickel (Ni), Selenium (Se), Titanium (Ti), Thallium (Tl), Vanadium (V), Beryllium (Be), Lithium (Li), Iron (Fe), Aluminium (Al), Manganese (Mn) Pre-Treatment: Microwave Digestion Measurement: ICP-OES Method	EPA 3051 A EPA 6010 D
Sewage Sludge	Determination of Copper (Cu), Mercury (Hg), Zinc (Zn), Cadmium (Cd), Total Chromine (Cr), Lead (Pb), Nickel (Ni), Barium (Ba), Molybdenum (Mo), Arsenic (As), Selenium (Se), Antimony (Sb) Pre-Treatment: Leaching Method from Solid Waste Measurement: ICP-OES Method	TS EN 12457-4 EPA 6010 D
Sewage Sludge	Determination of Chloride Pre-Treatment: Solid Extraction Method Measurement: Argentometric Method	TS EN 12457-4 SM 4500-Cl ⁻ B
Sewage Sludge	Determination of Fluoride Pre-Treatment: Solid Extraction Pre-Treatment: Distillation Method Measurement: SPADNS Method	TS EN 12457-4 SM 4500-F B SM 4500-F D
Sewage Sludge	Determination of Sulfate Pre-Treatment: Solid Extraction Measurement: Turbidimetric Method	TS EN 12457-4 SM 4500-SO ₄ ²⁻
Sewage Sludge	Determination of Phenol Index Pre-Treatment: Solid Extraction Pre-Treatment: Distillation Measurement: Spectrometric Method	TS EN 12457-4 SM 5530 B SM 5530 C
Sewage Sludge	Determination of Total Dissolved Matter (180°C) Pre-Treatment: Solid Extraction Method Measurement: Gravimetric Method	TS EN 12457-4 SM 2540 C
Sewage Sludge	Determination of Oil and Grease Pre-Treatment: Soxhlet Extraction Measurement: Gravimetric Method	EPA 9071 B
Sewage Sludge	Determination of BTEX Benzene, Toluene, Ethylbenzene, m-Xylene, o-Xylene, p-Xylene Pre-Treatment: Purge&Trap/Headspace Measurement: GC/MS Method	EPA 5021 A EPA 8260 D

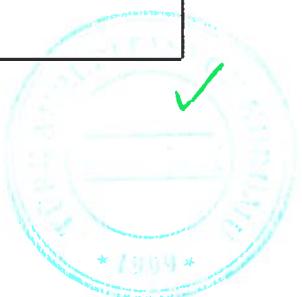


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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Sewage Sludge	Determination of Hydrocarbons in the C10-C40 Range Pre-Treatment: Sample Preparation Pre-Treatment: Florisil Clean-up Measurement: GC/FID Method	TS ISO 14507 TS EN 14039
Sewage Sludge	Determination of Volatile Organic Compounds (VOCs) (2-Hexanone, Methyl Tert Butyl Ether(MTBE), 4-Methyl-2-pentanone, Acrylonitrile, Diethyl ether (ethyl ether), Iodomethane, Bromodichloromethane, Chlorodibromomethane, cis-1,2 Dichloroethene, trans-1,2-Dichloroethene, 1,1-Dichloroethene, 1,1-Dichloroethane, 2,2Dichloropropane, Bromochloromethane, Bromoform, Carbontetrachloride,Dibromomethane, 1,1,1-Trichloroethane, Tetrachloroethene, 1,2-Dibromo-3-chloropropane, 1,2-Dibromoethane, 1,2-Dichloroethane, 1,2 Dichloropropane, 1,1-Dichloropropane, cis-1,3-Dichloropropene, trans-1,3-Dichloropropene) Pre-Treatment: Purge&Trap/Headspace Measurement:GC-MS Method	EPA 5021 A EPA 8260 D



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Sewage Sludge	Determination of Volatile Organic Compounds (VOCs) Hexachloro-1,3-butadiene, 1,1,1,2 -Tetrachloroethane, 1,1,2-Trichloroethane, Trichloroethene, 1,2,3-Trichloropropane, Bromobenzene, n-butylbenzene, p-isopropyl toluene, Naphthalene, Styrene, Toluene, 1,2,3 -Trichlorobenzene, 1,2,4 Trichlorobenzene, 1,2,4 -Trimethylbenzene, 1,3,5-Trimethylbenzene, , tert-butyl benzene, sec-butyl benzene, Chlorobenzene, 2-Chlorotoluene, 4-Chlorotoluene, 1,2 -Dichlorobenzene, 1,3-Dichlorobenzene, 1,4 -Dichlorobenzene, Isopropylbenzene, n-propylbenzene, benzene, chloroform, ethylbenzene, ethylmethacrylate, hexachloroethane, methacrylonitrile, methylacrylate, methylene chloride, methymetacrylate, m-xylene, o-xylene, p-xylene, tetrahydrofuran, trans-1,4dichloro-2-butadien Pre-Treatment: Purge&Trap/Headspace Measurement:: GC-MS Method	EPA 5021 A EPA 8260 D
Sewage Sludge	Determination of Total Carbon Induction-Infrared Spectrophotometer Method	ASTM E1915
Sewage Sludge	Determination of Total Sulfur (Sulphur) Induction-Infrared Spectrophotometer Method	ASTM E1915
Waste	Sampling Solid Waste	TS 12090
Waste	Determination of pH Electrometric Method	TS ISO 10390
Waste	Determination of pH Pre-Treatment: Leaching Method from Solid Waste Measurement: Electrochemical Method	TS EN 12457-4 SM 4500-H' B
Waste	Determination of Conductivity Pre-Treatment: Leaching Method from Solid Waste Measurement: Laboratory Method	TS EN 12457-4 SM 2510 B
Waste	Determination of Electrical Conductivity Electrometric Method	TS ISO 11265
Waste	Determination of Antimony (Sb), Arsenic (As), Copper (Cu), Barium (Ba), Mercury (Hg), Zinc (Zn), Cadmium (Cd), Lead (Pb), Molybdenum (Mo), Nickel (Ni), Selenium (Se), Chromium (Cr) Pre-Treatment: Microwave Digestion Measurement: ICP-OES Method	EPA 3051 A EPA 6010 D



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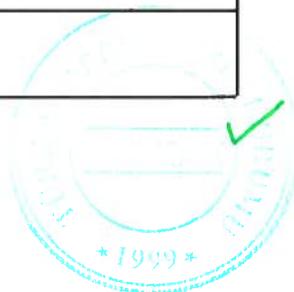
Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Waste	Determination of Copper (Cu), Mercury (Hg), Zinc (Zn), Cadmium (Cd), Total Chromium (Cr), Lead (Pb), Nickel (Ni), Barium (Ba), Molybdenum (Mo), Arsenic (As), Selenium (Se), Antimony (Sb) Pre-Treatment: Leaching Method from Solid Waste Measurement: ICP-OES Method	TS EN 12457-4 EPA 6010 D
Waste	Determination of Chloride Pre-Treatment: Leaching Method from Solid Waste Measurement: Argentometric Method	TS EN 12457-4 SM 4500-Cl ⁻ B
Waste	Determination of Fluoride Pre-Treatment: Leaching Method from Solid Waste Pre-Treatment: Distillation Method Measurement: SPADNS Method	TS EN 12457-4 SM 4500-F B SM 4500-F D
Waste	Determination of SO ₄ ²⁻ (Sulphate) Pre-Treatment: Leaching Method from Solid Waste Measurement: Turbidimetric Method	TS EN 12457-4 SM 4500-SO ₄ ²⁻ E
Waste	Determination of Phenol Index Pre-Treatment: Leaching Method from Solid Waste Pre-Treatment: Distillation Method Measurement: Spectrophotometric Method	TS EN 12457-4 SM 5530 B SM 5530 C
Waste	Determination of Total Dissolved Solids (TDS) Pre-Treatment: Leaching Method from Solid Waste Measurement: Gravimetric Method	TS EN 12457-4 SM 2540 C
Waste	Determination of Loss on Ignition of Dry Mass Gravimetric Method	TS EN 12879
Waste	Determination of BTEX Benzene, Toluene, Ethylbenzene, m-Xylene, o-Xylene, p-Xylene Pre-Treatment: Purge&Trap/Headspace Measurement: GC/MS Method	EPA 5021 A EPA 8260 D
Waste	Determination of Hydrocarbons in the C10-C40 Range Pre-Treatment: Sample Preparation Pre-Treatment: Florisil Clean-up Measurement: GC/FID Method	TS ISO 14507 TS EN 14039



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Waste	Determination of Volatile Organic Compounds (VOCs) (2-Hexanone, Methyl Tert Butyl Ether(MTBE), 4 -Methyl-2-pentanone, Acrylonitrile, Allyl chloride(3 -Chloropropene), Diethyl ether (ethylether), Iodomethane, Bromodichloromethane, Dibromochloromethane, cis-1,2-Dichloroethene, trans-1,2 Dichloroethene, 1,1-Dichloroethene, Bromochloromethane, Bromoform, Carbontetrachloride, Dibromomethane, 1,1 -Dichloroethane, 1,1,1 Trichloroethane, Tetrachloroethene, 1,2-Dibromo-3 -chloropropane,1,2-Dibromoethane, 1,2 -Dichloroethane, 1,2-Dichloropropane, 1,3 Dichloropropane, 1,1-Dichloropropane, cis-1,3 -Dichloropropene, trans-1,3-Dichloropropene, Hexachloro-1,3-butadiene, 1,1,1,2 -Tetrachloroethane, Ethylmethacrylate, 1,1,2 -Trichloroethane, Trichloroethene, 1,2,3 -Trichloropropane, Benzene, Bromobenzene, n-butyl/benzene, Ethylbenzene, p-isopropyl tolüene, Naphthalene, Styrene, Toluene, 1,2,3 -Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2,4 -Trimethylbenzene, 1,3,5-Trimethylbenzene, m-Xylene, tert-butylbenzene, sec-butyl benzene, Chlorobenzene,2-Chlorotoluene, 4-Chlorotoluene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4 Dichlorobenzene, Isopropylbenzene, n-propylbenzene, o-Xylene, p-Xylene) Pre-Treatment: Purge&Trap/Headspace Measurement: GC-MS Method	EPA 5021 A EPA 8260 D
Soil	Surface Soil Sampling Transport and Storage of Samples	TS 9923
Soil	Determination of pH Electrometric Method	TS ISO 10390
Soil	Determination of Electrical Conductivity Electrometric Method	TS ISO 11265
Soil	Determination of Organic Matter Walkley-Black Method	TS 8336
Soil	Determination of Dry Residue and Water Content Gravimetric Method	TS 9546 EN 12880
Soil	Determination of Total Dissolved Solids (TDS) Pre-Treatment: Leaching Method from Solid Waste Measurement: Gravimetric Method	TS EN 12457-4 SM 2540 C

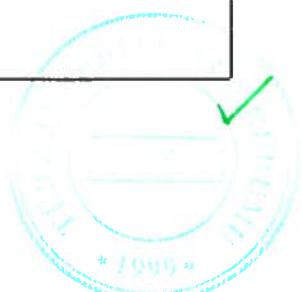


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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Soil	Determination of Loss on Ignition of Dry Mass Gravimetric Method	TS EN 12879
Soil	Determination of Total Phosphorus Ascorbic Acid Method	TS ISO 11263
Soil	Determination of Total Nitrogen Improved Kjeldahl Method	TS 8337 ISO 11261
Soil	Determination of Chromium (VI) Pre-Treatment: Alkaline Digestion Method Measurement: Spectrometric Method	EPA 3060 A EPA 7196 A
Soil	Determination of Total and Free Cyanide Pre-Treatment: Extraction+ Distillation Measurement:Titrimetric Method Measurement:Titrimetric and Spectrophotometric Method	EPA 9013 A EPA 9010 C EPA 9014
Soil	Determination of Antimony (Sb), Arsenic (As), Copper (Cu), Barium (Ba), Boron (B), Mercury (Hg), Zinc (Zn), Silver (Ag), Cadmium (Cd), Tin (Sn), Cobalt (Co), Total Chromium (Cr), Lead (Pb), Molybdenum (Mo), Nickel (Ni), Selenium (Se), Titanium (Ti), Thallium (Tl), Vanadium (V), Beryllium (Be), Lithium (Li), Iron (Fe), Aluminium (Al), Manganese (Mn) Pre-Treatment: Microwave Digestion Measurement: ICP-OES Method	EPA 3051 A EPA 6010 D
Soil	Determination of Oil and Grease Pre-Treatment: Soxhlet Extraction Measurement:Gravimetric Method	EPA 9071 B
Soil	Determination of Hydrocarbons (C10-C40) Pre-Treatment:Preparation of Samples Pre-Treatment:Soxhlet Extraction Pre-Treatment:Florisil Cleanup Pre-Treatment:Silica Gel Cleanup Measurement:GC-FID Method	TS ISO 14507 TS EN 14039
Soil	Determination of BTEX Benzene, Toluene, Ethylbenzene, m-Xylene, o-Xylene, p-Xylene Pre-Treatment:Purge&Trap/Headspace Measurement:GC/MS Method	EPA 5021 A EPA 8260 D



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Soil	Determination of Volatile Organic Compounds (VOCs) 2-Hexanone, Methyl Tert Butyl Ether(MTBE), 4 -Methyl-2-pentanone, Acrylonitrile, Allyl chloride(3 -Chloropropene), Diethyl ether (ethylether), Iodomethane, Bromodichloromethane, Dibromochloromethane, cis-1,2-Dichloroethene, trans-1,2-Dichloroethene, 1,1-Dichloroethene, Bromochloromethane, Bromoform, Carbontetrachloride, Dibromomethane, 1,1 -Dichloroethane, 1,1,1-Trichloroethane, Tetrachloroethene, 1,2-Dibromo-3-chloropropane, 1,2-Dibromoethane, 1,2-Dichloroethane, 1,2 -Dichloropropane, 1,3-Dichloropropane, 1,1 -Dichloropropane, cis-1,3-Dichloropropene, trans- 1,3-Dichloropropene, Hexachloro-1,3-butadiene, 1,1,1,2-Tetrachloroethane, Ethylmethacrylate, 1,1,2 -Trichloroethane, Trichloroethene, 1,2,3 -Trichloropropane, Benzene, Bromobenzene, n-butylbenzene, Ethylbenzene, p-isopropyl tolüene, Naphthalene, Styrene, Toluene, 1,2,3 -Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2,4 -Trimethylbenzene, 1,3,5-Trimethylbenzene, m-Xylene, tert-butylbenzene, sec-butyl benzene, Chlorobenzene, 2-Chlorotoluene, 4-Chlorotoluene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4 -Dichlorobenzene, Isopropylbenzene, n-propylbenzene, o-Xylene, p-Xylene Pre-Treatment: Headspace Method Measurement: GC-MS Method	EPA 5021 A EPA 8260 D
Soil	Determination of Total Carbon Measurement: Induction-Infrared Spectrophotometer Method	ASTM E1915
Soil	Determination of Total Sulfur (Sulphur) Measurement:Induction-Infrared Spectrophotometer Method	ASTM E1915
Sediment	Sampling of Bottom Sediments	TS ISO 5667-12
Sediment	Determination of pH Electrometric Method	TS ISO 10390
Sediment	Determination of Electrical Conductivity Electrometric Method	TS ISO 11265
Sediment	Determination of Dry Residue Water Content % Gravimetric Method	TS 9546 EN 12880

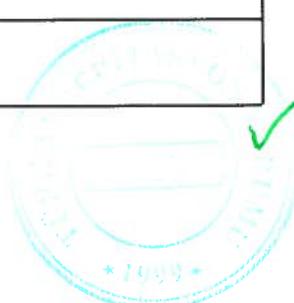


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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Sediment	Determination of Total Dissolved Solids (TDS) Gravimetric Method	SM 2540 C
Sediment	Determination of Loss on Ignition of Dry Mass Gravimetric Method	TS EN 12879
Sediment	Determination of Total Phosphorus Ascorbic Acid Method	TS ISO 11263
Sediment	Determination of Total Nitrogen Improved Kjeldahl Method	TS 8337 ISO 11261
Sediment	Determination of Organic Matter Walkley-Black Method	TS 8336
Sediment	Determination of Chromium (VI) Pre-Treatment: Alkaline Digestion Method Measurement: Spectrophotometric Method	EPA 3060 A EPA 7196 A
Sediment	Determination of Total Cyanide Pre-Treatment: Distillation Method Pre-Treatment: Preparation: Extraction Method Measurement: Spectrophotometric Method	EPA 9013 A EPA 9010 C EPA 9014
Sediment	Determination of Antimony (Sb), Arsenic (As), Copper (Cu), Barium (Ba), Boron (B), Mercury (Hg), Zinc (Zn), Silver (Ag), Cadmium (Cd), Tin (Sn), Cobalt (Co), Total Chromium (Cr), Lead (Pb), Molybdenum (Mo), Nickel (Ni), Selenium (Se), Titanium (Ti), Thallium (Tl), Vanadium (V), Beryllium (Be), Lithium (Li), Manganese (Mn), Iron (Fe), Aluminium (Al) Pre-Treatment: Microwave Digestion Measurement: ICP-OES Method	EPA 3051 A EPA 6010 D
Sediment	Determination of BTEX (Benzene, Toluene, Ethylbenzene, m-Xylene, o-Xylene, p-Xylene) Pre-Treatment: Purge&Trap/Headspace Measurement: GC-MS Method	EPA 5021 A EPA 8260 D
Sediment	Determination of Hydrocarbons in the C10-C40 Range Pre-Treatment: Sample Preparation Pre-Treatment: Florisil Clean-up Measurement: GC/FID Method	TS ISO 14507 TS EN 14039
Sediment	Determination of Oil and Grease Pre-Treatment: Soxhlet Extraction Measurement: Gravimetric Method	EPA 9071 B



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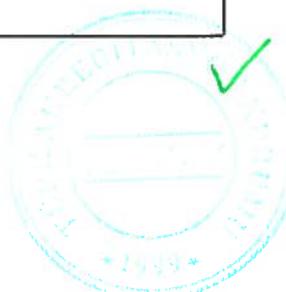
Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Sediment	Determination of Volatile Organic Compounds (VOCs) 2-Hexanone, Methyl Tert Butyl Ether (MTBE), 4 -Methyl-2-pentanone, Acrylonitrile, Diethyl ether (ethyl ether), Iodomethane, Bromodichloromethane, Chlorodibromomethane, cis-1,2-Dichloroethene, trans-1,2-Dichloroethene, 1,1-Dichloroethene, 1,1-Dichloroethane, 2,2 -Dichloropropane, Bromochloromethane, Bromoform, Carbontetrachloride, Dibromomethane, 1,1,1-Trichloroethane, Tetrachloroethene, 1,2-Dibromo-3-chloropropane, 1,2-Dibromoethane, 1,2-Dichloroethane, 1,2 -Dichloropropane, 1,3-Dichloropropane, 1,1 -Dichloropropane, cis-1,3-Dichloropropene, trans-1,3-Dichloropropene, Hexachloro-1,3-butadiene) Pre-Treatment: Purge&Trap/Headspace Measurement: GC-MS Method	EPA 5021 A EPA 8260 D
Sediment	Determination of Volatile Organic Compounds (VOCs) 1,1,1,2-Tetrachloroethane, 1,1,2-Trichloroethane, Trichloroethene, 1,2,3-Trichloropropane, Bromobenzene, n-butylbenzene, p-isopropyl toluene, Naptthalene, Styrene, Toluene, 1,2,3 -Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2,4 -Trimethylbenzene, 1,3,5-Trimethylbenzene, ,tert-butyl benzene, sec-butyl benzene, Chlorobenzene, 2-Chlorotoluene, 4 Chlorotoluene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4 -Dichlorobenzene, Isopropylbenzene, n-propylbenzene, benzene, chloroform, ethylbenzene, ethylmethacrylate, hexachloroethane, methacrylonitrile, methylacrylate, methylene chloride, methymetacrylate, m-xylene, o-xylene, p-xylene, tetrahydrofuran, trans-1,4 dichloro-2 butadien Pre-Treatment: Purge&Trap/Headspace Measurement: GC-MS Method	EPA 5021 A EPA 8260 D
Sediment	Determination of Total Carbon Infrared Spectrophotometer Method	ASTM E1915
Sediment	Determination of Total Sulfur (Sulphur) Infrared Spectrophotometer Method	ASTM E1915



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Mining Waste / Mine Tailing	<p>Determination of Neutralization Potential (NP) and Acid Potential (AP) (Sulfur) (Static Test)</p> <p>Pre-Treatment: Preparation of test sample portions from the laboratory sample Mechanical Crushing Screening (95% smaller than 0.125mm)</p> <p>Parameters to be Analysed in Orginal Waste</p> <p>Dry Residue and Water Content (105°C) %S %C</p> <p>Measurement: Infrared Spectrophotometric Method</p> <p>Measurement: Titrimetric Method</p> <p>Parameters to be Monitored in Eluate</p> <p>pH</p> <p>Measurement: Electrometric Method</p>	TS EN 15875 TS EN 15875/AC ASTM E1915 EPA-600/2-78-054 TS EN 15002 TS ISO 11465 TS ISO 11465/Cor.1 SM 4500-H* B
Mining Waste / Mine Tailing	Determination of paste pH Measurement: Electrometric Method	EPA-600/2-78-054 (3.2.2)
Mining Waste / Mine Tailing	Determination of Loss on Ignition Measurement: Gravimetric Method	In house method - "ENC.LABTL.TAMK.191"-Rev/01 14.09.2018 (Modified from method 12879.)
Ore / Waste Rock	<p>Determination of Antimony (Sb), Arsenic (As), Silver (Ag), Beryllium (Be), Mercury (Hg), Cadmium (Cd), Lead (Pb), Selenium (Se), Thallium (Tl)</p> <p>Pre-Treatment: Microwave Digestion</p> <p>Measurement: ICP-MS Method</p>	EPA 3051 A EPA 6020 B
Ore / Waste Rock	<p>Determination of Gold (Au)</p> <p>Pre-Treatment: Acid Extraction (King Water) Metod</p> <p>Measurement: ICP-MS Method</p>	Inhouse Method- ENC.LABTL.TAMK.191 Rev/01 14.09.2018 (Journal of Metrology Society of India (2012) 27(2):87-95)
Ore / Waste Rock	<p>Determination of Aluminium (Al), Copper (Cu), Barium (Ba), Zinc (Zn), Iron (Fe), Calcium (Ca), Cobalt (Co), Chromium (Cr), Magnesium (Mg), Mangan (Mn), Nickel (Ni), Potassium (K), Sodium (Na), Strontium (Sr), Vanadium (V)</p> <p>Pre-Treatment: Microwave Digestion</p> <p>Measurement: ICP-OES Method</p>	EPA 3051 A EPA 6010 D
Ore / Waste Rock	<p>Determination of Whole Rock SiO₂, Al₂O₃, Fe₂O₃, Na₂O, K₂O, CaO, FeO, MgO, MnO, TiO₂, P₂O₅</p> <p>Pre-Treatment: Lithium Borate Fusion Method</p> <p>Pre-Treatment: Microwave Digestion</p> <p>Measurement: ICP-OES Method</p>	Inhouse Method- ENC.LABTL.ICP-MET.118*-Rev 05 08.10.2018 (Modified from TS ISO 14869-2, EPA 3051 A, EPA 6010 D)

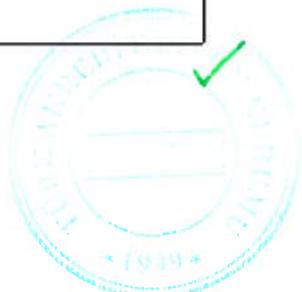


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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Mining Waste / Mine Tailing (Eluate)	Determination of Metals Silver (Ag), Aluminium (Al), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Cobalt (Co), Chromium (Cr), Copper (Cu), Iron (Fe), Mercury (Hg), Mangan (Mn), Nickel (Ni), Lead (Pb), Antimony (Sb), Selenium (Se), Thallium (Tl), Vanadium (V), Zinc (Zn) Pre-Treatment: Shake Extraction of Solid Waste with Water Pre-Treatment: Leaching Method from Solid Waste Measurement: ICP-MS Method	ASTM D 3987 TS EN 12457-1 EPA 6020 B
Mining Waste / Mine Tailing (Eluate)	Determination of Metals Boron (B), Lithium (Li), Molybdenum (Mo), Tin (Sn), Strontium (Sr), Tellurium (Te), Thorium (Th), Uranium (U), Zirconium (Zr) Pre-Treatment: Shake Extraction of Solid Waste with Water Pre-Treatment: Leaching Method from Solid Waste Measurement: ICP-MS Method	ASTM D 3987 TS EN 12457-1 TS EN ISO 17294-1/2
Mining Waste / Mine Tailing (Eluate)	Determination of Metals Aluminium (Al), Calcium (Ca), Potassium (K), Magnesium (Mg), Sodium (Na), Phosphorus (P), Silicium (Si), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Cobalt (Co), Chromium (Cr), Copper (Cu), Iron (Fe), Manganese (Mn), Nickel (Ni), Lead (Pb), Antimony (Sb), Selenium (Se), Thallium (Tl), Vanadium (V), Zinc (Zn), Boron (B), Lithium (Li), Molybdenum (Mo), Tin (Sn), Strontium (Sr) Pre-Treatment: Shake Extraction of Solid Waste with Water Pre-Treatment: Leaching Method from Solid Waste Measurement: ICP-OES Method	ASTM D 3987 TS EN 12457-1 EPA 200 7



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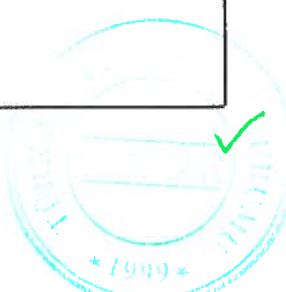
 TÜRKAK Test TS EN ISO IEC 17025 AB-0168-T	ENCON LABORATUVARI A.Ş. Accreditation Nr: AB-0168-T Revision Nr: 014 Date: 20.12.2021	
Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Mining Waste / Mine Tailing (Eluate)	Determination of Fluoride, Chloride, Sulphate Pre-Treatment: Extraction Method Pre-Treatment: Solid Extraction Method Pre-Treatment: Kinetic Test (Moisture Cell) Pre-Treatment: Dynamic monolithic leach experiment with periodic regeneration of leaching agent under constant conditions Pre-Treatment: Dynamic monolithic leaching test with continuous liquor solution replenishment under constant conditions related to the specified scenario(s) Pre-Treatment: Standard Test Method for Sequential Batch-Feed Extraction of Waste with Water Measurement: IC Method	ASTM D 3987 TS EN 12457-1 PD CEN/TR 16363 ASTM D5744-18 TS EN 15863 TS EN 15864 ASTM D4793 SM 4110 B
Mining Waste / Mine Tailing (Eluate)	Determination of Fluoride Pre-Treatment: Extraction Method Pre-Treatment: Solid Extraction Method Pre-Treatment: Kinetic Test (Moisture Cell) Pre-Treatment: Dynamic monolithic leach experiment with periodic regeneration of leaching agent under constant conditions Pre-Treatment: Dynamic monolithic leaching test with continuous liquor solution replenishment under constant conditions related to the specified scenario(s) Pre-Treatment: Standard Test Method for Sequential Batch-Feed Extraction of Waste with Water Pre-Treatment: Distillation Method Measurement: Spectrophotometric Method (SPADNS)	ASTM D 3987 TS EN 12457-1 SM 4500-F D PD CEN/TR 16363 ASTM D5744-18 TS EN 15863 TS EN 15864 ASTM D4793 SM 4500-F B SM 4500-F D
Mining Waste / Mine Tailing (Eluate)	Determination of Chloride Pre-Treatment: Extraction Method Pre-Treatment: Solid Extraction Method Pre-Treatment: Kinetic Test (Moisture Cell) Pre-Treatment: Dynamic monolithic leach experiment with periodic regeneration of leaching agent under constant conditions Pre-Treatment: Dynamic monolithic leaching test with continuous liquor solution replenishment under constant conditions related to the specified scenario(s) Pre-Treatment: Standard Test Method for Sequential Batch-Feed Extraction of Waste with Water Measurement: Titrimetric Method	ASTM D 3987 TS EN 12457-1 PD CEN/TR 16363 ASTM D5744-18 TS EN 15863 TS EN 15864 ASTM D4793 SM 4500-Cl ⁻ B



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Mining Waste / Mine Tailing (Eluate)	Determination of Sulphate Pre-Treatment: Extraction Method Pre-Treatment: Solid Extraction Method Pre-Treatment: Kinetic Test (Moisture Cell) Pre-Treatment: Dynamic monolithic leach experiment with periodic regeneration of leaching agent under constant conditions Pre-Treatment: Dynamic monolithic leaching test with continuous liquor solution replenishment under constant conditions related to the specified scenario(s) Pre-Treatment: Standard Test Method for Sequential Batch-Feed Extraction of Waste with Water Measurement: Turbidimetric Method	ASTM D 3987 TS EN 12457-1 PD CEN/TR 16363 ASTM D5744-18 TS EN 15863 TS EN 15864 ASTM D4793 SM 4500 SO ₄ ²⁻ E
Mining Waste / Mine Tailing (Eluate)	Determination of Acidity Pre-Treatment: Extraction Method Pre-Treatment: Solid Extraction Method Pre-Treatment: Kinetic Test (Moisture Cell) Pre-Treatment: Dynamic monolithic leach experiment with periodic regeneration of leaching agent under constant conditions Pre-Treatment: Dynamic monolithic leaching test with continuous liquor solution replenishment under constant conditions related to the specified scenario(s) Pre-Treatment: Standard Test Method for Sequential Batch-Feed Extraction of Waste with Water Measurement: Titrimetric Method	ASTM D 3987 TS EN 12457-1 PD CEN/TR 16363 ASTM D5744-18 TS EN 15863 TS EN 15864 ASTM D4793 SM 2310 B
Mining Waste / Mine Tailing (Eluate)	Determination of Alkalinity Pre-Treatment: Extraction Method Pre-Treatment: Solid Extraction Method Pre-Treatment: Kinetic Test (Moisture Cell) Pre-Treatment: Dynamic monolithic leach experiment with periodic regeneration of leaching agent under constant conditions Pre-Treatment: Dynamic monolithic leaching test with continuous liquor solution replenishment under constant conditions related to the specified scenario(s) Pre-Treatment: Standard Test Method for Sequential Batch-Feed Extraction of Waste with Water Measurement: Titrimetric Method	ASTM D 3987 TS EN 12457-1 PD CEN/TR 16363 ASTM D5744-18 TS EN 15863 TS EN 15864 ASTM D4793 SM 2320 B



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Mining Waste / Mine Tailing (Eluate)	Determination of Phosphate Phosphorus Pre-Treatment: Extraction Method Pre-Treatment: Solid Extraction Method Pre-Treatment: Dynamic monolithic leach experiment with periodic regeneration of leaching agent under constant conditions Measurement: Spectrometric Method	ASTM D 3987 TS EN 12457-1 TS EN 15863 SM 4500 P E
Mining Waste / Mine Tailing (Eluate)	Determination of Conductivity Pre Treatment: Extraction Method Pre-Treatment: Solid Extraction Method Pre-Treatment: Kinetic Test (Moisture Cell) Pre-Treatment: Dynamic monolithic leach experiment with periodic regeneration of leaching agent under constant conditions Pre-Treatment: Dynamic monolithic leaching test with continuous liquor solution replenishment under constant conditions related to the specified scenario(s) Pre-Treatment: Standard Test Method for Sequential Batch-Feed Extraction of Waste with Water Measurement: Laboratory Method	ASTM D 3987 TS EN 12457-1 PD CEN/TR 16363 ASTM D5744-18 TS EN 15863 TS EN 15864 ASTM D4793 SM 2510 B
Mining Waste / Mine Tailing (Eluate)	Determination of pH Pre-Treatment: Extraction Method Pre-Treatment: Solid Extraction Method Pre-Treatment: Kinetic Test (Moisture Cell) Pre-Treatment: Dynamic monolithic leach experiment with periodic regeneration of leaching agent under constant conditions Pre-Treatment: Dynamic monolithic leaching test with continuous liquor solution replenishment under constant conditions related to the specified scenario(s) Pre-Treatment: Standard Test Method for Sequential Batch-Feed Extraction of Waste with Water Measurement: Electrometric Method	ASTM D 3987 TS EN 12457-1 PD CEN/TR 16363 ASTM D5744-18 TS EN 15863 TS EN 15864 ASTM D4793 SM 4500-H* B



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Mining Waste / Mine Tailing (Eluate)	Determination of Redox Potential (ORP) Pre-Treatment: Extraction Method Pre-Treatment: Solid Extraction Method Pre-Treatment: Kinetic Test (Moisture Cell) Pre-Treatment: Dynamic monolithic leach experiment with periodic regeneration of leaching agent under constant conditions Pre-Treatment: Dynamic monolithic leaching test with continuous liquor solution replenishment under constant conditions related to the specified scenario(s) Pre-Treatment: Standard Test Method for Sequential Batch-Feed Extraction of Waste with Water Measurement: Electrode Method	ASTM D 3987 TS EN 12457-1 PD CEN/TR 16363 ASTM D5744-18 TS EN 15863 TS EN 15864 ASTM D4793 SM 2580 B
Mining Waste / Mine Tailing (Eluate)	Determination of Total Dissolved Solids (TDS) Pre-Treatment: Extraction Method Pre-Treatment: Solid Extraction Method Pre-Treatment: Kinetic Test (Moisture Cell) Measurement: Gravimetric Method	PD CEN/TR 16363 ASTM D3987 TS EN 12457-1 ASTM D5744-18 SM 2540 C
Mining Waste / Mine Tailing (Eluate)	Determination of Metals Arsenic (As), Barium (Ba), Cadmium (Cd), Total Chromium (Cr), Copper (Cu) Molybdenum (Mo), Nickel (Ni), Lead (Pb), Antimony (Sb), Selenium (Se), Zinc (Zn), Aluminum (Al), Calcium (Ca), Potassium (K), Phosphorus (P), Silicon (Si), Silver (Ag), Boron (B), Barium (Ba), Beryllium (Be), Cobalt (Co), Iron (Fe), Mercury (Hg), Lithium (Li), Manganese (Mn), Tin (Sn), Strontium (Sr), Thallium (Tl), Titanium (Ti) Magnesium (Mg), Sodium (Na) Determination Pre-Process-1: Kinetic Test (Moisture Cell) Pre-Treatment -2: Dynamic monolithic leach experiment with periodic regeneration of leaching agent under constant conditions Pre-Treatment -3: Dynamic monolithic leaching test with continuous liquid solution replenishment under constant conditions related to the specified scenario(s) Pre-Treatment -4: Acidic Extraction by Microwave Measurement: ICP-OES Method	PD CEN/TR 16363 TS EN 15863 TS EN 15864 ASTM D5744-18 EPA 3015 A EPA 6010D



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Accreditation Scope

 TÜRKAK Test TS EN ISO IEC 17025 AB-0168-T	ENCON LABORATUVARI A.Ş. Accreditation Nr: AB-0168-T Revision Nr: 014 Date: 20.12.2021
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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Mining Waste / Mine Tailing (Eluate)	Determination of Metals Arsenic (As), Barium (Ba), Cadmium (Cd), Total Chromium (Cr), Copper (Cu) Mercury (Hg), Nickel (Ni), Lead (Pb), Antimony (Sb), Selenium (Se), Determination of Zinc (Zn), Silver (Ag), Aluminum (Al), Beryllium (Be), Cobalt (Co), Iron (Fe), Manganese (Mn), Thallium (Tl), Vanadium (V) Pre-Treatment: Extraction Method Pre-Treatment: Solid Extraction Method Pre-Treatment: Kinetic Test (Moisture Cell) Pre-Treatment: Dynamic monolithic leach experiment with periodic regeneration of leaching agent under constant conditions Pre-Treatment: Dynamic monolithic leaching experiment with continuous liquid solution replenishment under constant conditions related to the specified scenario(s) Pre-Treatment: Acidic Extraction by Microwave Measurement: ICP-MS Method	ASTM D 3987 TS EN 12457-1 PD CEN/TR 16363 TS EN 15863 TS EN 15864 ASTM D5744-18 EPA 3015 A EPA 6020 B
Mining Waste / Mine Tailing (Eluate)	Determination of Metals Boron (B), Lithium (Li), Molybdenum (Mo), Tin (Sn), Strontium (Sr), Tellurium (Te), Thorium (Th), Uranium (U), Zirconium (Zr) Pre-Treatment: Kinetic Test (Moisture Cell) Pre-Treatment: Dynamic monolithic leach experiment with periodic regeneration of leaching agent under constant conditions Pre-Treatment: Dynamic monolithic leaching test with continuous liquid solution replenishment under constant conditions related to the specified scenario(s) Pre-Treatment: Acidic Extraction by Microwave Measurement: ICP-MS Method	PD CEN/TR 16363 TS EN 15863 TS EN 15864 ASTM D5744-18 EPA 3015 A TS EN ISO 17294-1/2
Mining Waste / Mine Tailing (Eluate)	Determination of Dissolved Oxygen Pre-Treatment: Standard Test Method for Sequential Batch-Feed Extraction of Waste with Water Measurement: Membrane Electrode Method	ASTM D4793 SM 4500 O G



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Accreditation Scope

 TÜRKAK <small>Test TS EN ISO IEC 17025 AB-0168-T</small>	ENCON LABORATUVARI A.Ş. Accreditation Nr: AB-0168-T Revision Nr: 014 Date: 20.12.2021
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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Mining Waste / Mine Tailing (Eluate)	<p>Determination of Metals</p> <p>Aluminum (Al), Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Boron (B), 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), Potassium (K), Selenium (Se), Silver (Ag), Sodium (Na), Strontium (Sr), Thallium (Tl), Tin (Sn), Titanium (Ti), Vanadium (V), Zinc (Zn), Silicon (Si),</p> <p>Pre-Treatment: Standard Test Method for Sequential Batch-Feed Extraction of Waste with Water</p> <p>Pre-Treatment: Acidic Extraction by Microwave Measurement: ICP-OES Method</p>	ASTM D4793 EPA 3015 A EPA 6010 D
Mining Waste / Mine Tailing (Eluate)	<p>Determination of Metals</p> <p>Aluminum (Al), Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Copper (Cu), Iron (Fe) , Lead (Pb), Manganese (Mn), Mercury (Hg), Nickel (Ni), Phosphorus (P), Selenium (Se), Silver (Ag), Thallium (Tl), Vanadium (V), Zinc (Zn)</p> <p>Pre-Treatment: Standard Test Method for Sequential Batch-Feed Extraction of Waste with Water</p> <p>Pre-Treatment: Acidic Extraction by Microwave Measurement: ICP-MS Method</p>	ASTM D4793 EPA 3015 A EPA 6020 B
Mining Waste / Mine Tailing (Eluate)	<p>Determination of Metals</p> <p>Boron (B), Lithium (Li), Molybdenum (Mo), Strontium (Sr), Tin (Sn), Tellurium (Te), Thorium (Th), Uranium (U), Zirconium (Zr)</p> <p>Pre-Treatment: Standard Test Method for Sequential Batch-Feed Extraction of Waste with Water</p> <p>Pre-Treatment: Acidic Extraction by Microwave Measurement: ICP-MS Method</p>	ASTM D4793 EPA 3015 A TS EN ISO 17294-1/2
Immission (Ambient Air)	Determination of PM 10 Fraction of Suspended Particulate Matter Gravimetric Method	EPA 40 CFR 50 AppJ



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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Immission (Ambient Air)	Determination of PM 10 and PM 2,5 Mass Concentration of Suspended Particulate Matter Gravimetric Method	TS EN 12341
Immission (Ambient Air)	Determination of Precipitated Dust Gravimetric Method	TS 2342

End of Scope


G. Banu MÜDERRİSOĞLU
Secretary General

