

Name of Laboratory : SGS (Thailand) Limited, Laboratory Services
Address : 10, 10/1-4 and 12 Soi Rama III S.59,
Chong Nonsi, Yan Nawa, Bangkok 10120
Accreditation Number : Testing - 0017
Contact Person : Mr. Pradit Yongpanchai
Phone : 0-2683-0541
Fax : 0-2294-7484
E-mail : pradit.yongpanchai.com
Initial Issue Date : 22nd June 2007
Issue Date : 14th September 2023
Expired date : 6th November 2026
Standard : ISO/IEC 17025:2017
Reference No. : 0303/15078

Scope of Laboratory Accreditation

Laboratory Name : SGS (Thailand) Limited, Laboratory Services

Address : 10, 10/1-4 and 12 Soi Rama III S.59,
Chong Nonsi, Yan Nawa, Bangkok 10120

Accreditation Number : Testing - 0017

Laboratory Status : Permanent Site Temporary Mobile

Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
1	Water	- Cadmium 0.002 mg/L to 0.1 mg/L - Copper 0.01 mg/L to 1.0 mg/L - Lead 0.01 mg/L to 1.0 mg/L - Manganese 0.1 mg/L to 4.0 mg/L - Nickel 0.01 mg/L to 1.0 mg/L - Zinc 0.01 mg/L to 1.0 mg/L - Arsenic 0.002 mg/L to 0.008 mg/L	In - house method : LBEN-05119 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 3120 B, 3030 F In - house method : LBEN-05119 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 3114 C

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
1 (cont.)	Water	- Antimony 0.63 µg/L to 12.5 µg/L - Arsenic 0.63 µg/L to 6.25 µg/L - Cadmium 0.63 µg/L to 6.25 µg/L - Chromium 0.63 µg/L to 12.5 µg/L - Cobalt 1.25 µg/L to 62.5 µg/L - Copper 0.63 µg/L to 6.25 µg/L - Lead 0.63 µg/L to 6.25 µg/L - Manganese 0.63 µg/L to 6.25 µg/L	In - house method : LBEN-14004 based on United States Environmental Protection Agency, 2014, EPA, Method 6020 B, Revision 2

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1 (cont.)	Water	- Nickel 0.63 µg/L to 6.25 µg/L - Silver 2.50 µg/L to 62.50 µg/L - Zinc 2.50 µg/L to 62.50 µg/L - Barium 1.25 µg/L to 62.50 µg/L - Boron 1.25 µg/L to 62.50 µg/L - Selenium 0.63 µg/L to 12.50 µg/L - Tin 0.13 µg/L to 6.25 µg/L	In - house method : LBEN-14004 based on United States Environmental Protection Agency, 2014, EPA, Method 6020 B, Revision 2

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1 (cont.)	Water	- Mercury 0.5 µg/L to 8.0 µg/L - Hexavalent chromium 1.0 µg/L to 6.25 µg/L - pH 6.0 to 10.0	In - house method : LBEN-08145 based on United States Environmental Protection Agency, 1994, EPA, Method 245.1, Revision 3.0 ISO 18412 : 2005 In - house method : LBEN-09152 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500-H ⁺ B

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1 (cont.)	Water	- Ammonia - Nitrogen 0.10 mg/L to 10.0 mg/L	In-house method : LBEN-19003 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500-NH ₃ -F
		- Total phosphorus 0.10 mg/L to 10.0 mg/L	In - house method : LBEN-19002 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500-P J
		- Oil and Grease 0.50 mg/L to 100.0 mg/L	In - house method : LBEN-18005 based on United States Environmental Protection Agency, 2010, EPA, Method 1664, Revision B

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1 (cont.)	Water	- Color 0.10 m^{-1} to 10.00 m^{-1} - Phenol 0.001 mg/L to 0.10 mg/L - Cyanide 0.01 mg/L to 0.50 mg/L	ISO 7887 : 2011, method B In - house method : LBEN-15007 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 5530 B, C In - house method : LBEN-97018 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500-CN ⁻ C, E

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1 (cont.)	Water	- Navy blue 1.0 mg/L to 7.5 mg/L Azo colorants - Aniline - n-Methylaniline - p-Toluidine - o-Toluidine - m-Toluidine - n-Ethylaniline - 2-Chloroaniline - 2,4-Xylidine - 2,6-Xylidine 0.10 µg/L to 3.00 µg/L	In - house method : LBLC-19004 based on United States Environmental Protection Agency, 2007, EPA, Method 8321 B In - house method : SOP LBGC-18004 based on ISO 14362-1 : 2017

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1 (cont.)	Water	Azo colorants - o-Anisidine - 4-Chloroaniline - n,n-diethylaniline - p-Cresidine - 2,4,5-Trimethylaniline - 4-Chloro-o-toluidine - 2,4-Toluenediamine - 2,4-Diaminoanisole - 2-Naphtylamine - 5-Nitro-o-toluidine - 5-Nitro-o-anisidine - 4-Aminobiphenyl - 4-Aminoazobenzene - 4,4'-Oxydianiline 0.10 µg/L to 3.00 µg/L	In - house method : SOP LBGC-18004 based on ISO 14362-1 : 2017

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1 (cont.)	Water	Azo colorants - Benzidine - 4,4'-Thiodianiline - o-Aminoazotoluene - 3,3'-Dimethyl-4,4'-diaminodiphenylmethane - 3,3'-Dimethylbenzidine - 4,4'-Thiodianiline - 3,3'-Dichlorobenzidine - 4,4'-Methylene-bis- (2-chloro aniline) - 3,3'-Dimethoxybenzidine 0.10 µg/L to 3.00 µg/L	In - house method : SOP LBGC-18004 based on ISO 14362-1 : 2017

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1 (cont.)	Water	Organotin Compounds - Trimethyltin(TMT) - Dimethyltin(DMT) - Dipropyltin-dichloride(DProT) - Monobutyltin(MBT) - Tripropyltin(TPrT) - Dibutyltin(DBT) - Tributyltin(TBT) - Monooctyltin(MOT) - Tetrabutyltin(TeBT) - Diphenyltin(DPhT) - Dioctyltin(DOT) - Triphenyltin(TPhT) - Tri-cyclohexyltin(TCyT) - Tri-n-octyltin(TOT) 0.05 µg/L to 2.0 µg/L	In - house method : SOP LBGC-18006 based on ISO 17353 : 2004

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1 (cont.)	Water	Polycyclic Aromatic Hydrocarbons (PAHs) - Naphthalene - 2-Methylnaphthalene - 1-Methylnaphthalene - Acenaphthylene - Acenaphthene - Fluorene - Phenanthrene - Anthracene - Fluoranthene - Pyrene - Cyclopenta (c,d) pyrene - Benzo(a) Anthracene - Chrysene 0.01 µg/L to 2.0 µg/L	In - house method : SOP LBGC-18008 based on DIN 38407-39 : 2011

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1 (cont.)	Water	Polycyclic Aromatic Hydrocarbons (PAHs) - Benzo (b) Fluoranthene - Benzo (j) Fluoranthene - Benzo (k) Fluoranthene - Benzo (e) pyrene - Benzo (a) pyrene - Indenol (1,2,3-cd) pyrene - Dibenzo (ah) anthracene - Benzo (ghi) perylene 0.01 µg/L to 2.0 µg/L	In - house method : SOP LBGC-18008 based on DIN 38407-39 : 2011

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1 (cont.)	Water	Chlorophenol - 4-Chloro-3-methylphenol - 2-Chlorophenol - 3-Chlorophenol - 4-Chlorophenol - 2,4-Dichlorophenol - 2,5-Dichlorophenol - 2,6-Dichlorophenol - 3,5-Dichlorophenol - 2,3-Dichlorophenol - 3,4-Dichlorophenol - Pentachlorophenol - 2,3,4,6-Tetrachlorophenol 0.5 µg/L to 20.0 µg/L	In - house method : SOP LBGC-18003 based on ISO 17070 : 2015

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1 (cont.)	Water	Phthalates - Di-butyl phthalate - Di-2-ethyl hexyl phthalate - Di-isononyl phthalate - Bis-methylglycol ester phthalate - Di-isoheptyl phthalate - Bis cyclohexyl phthalate - Di-n-octyl phthalate - Bis-(2-propylheptyl) phthalate - Bis-nonyl phthalate - Bis-propyl phthalate - Bis-iso-pentyl phthalate - n-pentyl-iso-pentyl phthalate - Bis-n-pentyl phthalate - Di-n-hexyl phthalate - Bis-iso-octyl phthalate - Di-isodecyl phthalate 5 µg/L to 30 µg/L	In - house method : SOP LBGC-18007 based on ISO 18856 : 2004

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1 (cont.)	Water	Volatile Organic Compound - Methylene Chloride - Benzene - 1,2-Dichloroethane - Trichloroethylene - Tetrachloroethylene - Total Xylene 5 µg/L to 20 µg/L - p- Cresol - o- Cresol - m- Cresol 5 µg/L to 25 µg/L	In - house method : SOP LBGC-18009 based on United States Environmental Protection Agency, 1996, EPA, Method 8260B, Revision 2.0 In - house method : SOP LBGC-18010 based on United States Environmental Protection Agency, 1996, EPA, Method 8260 B, Revision 2.0

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1 (cont.)	Water	Perfluorocarbons (PFCs) : - 6:2 FTOH - 8:2 FTOH - 10:2 FTOH - 6:2 FTA - 8:2 FTA - 10:2 FTA 5 µg/L to 25 µg/L Flame retardants - 2,2-bis(bromomethyl)-1,3-propane-diol - Tris (2-chloroethyl) phosphate - Tris (1,3-dichloro-isopropyl) phosphate - Hexabromocyclododecane 5.0 µg/L to 25.0 µg/L	In - house method : LBEGC-18011 based on GB/T 29493.2 : 2013 In - house method : LBGC-18005 based on United States Environmental Protection Agency, 2005, EPA, Method 527, Revision 1.0

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1 (cont.)	Water	Flame retardants - Polybrominated biphenyls ethers - Polybrominated diphenyl ethers 0.25 µg/L to 1.5 µg/L Disperse dyes - Basic violet 1 - Basic violet 3 - Disperse Blue 1 - Disperse Blue 7 - Disperse Brown 1 - Disperse Orange 1 - Disperse Orange 3 - Disperse Orange 11 - Disperse Orange 37/76 - Disperse Red 1 10.0 µg/L to 50.0 µg/L	In - house method : LBGC-18005 based on United States Environmental Protection Agency, 2005, EPA, Method 527, Revision 1.0 In - house method : LBLC-18002 based on Journal of Chromatographic Science 2015, 53 : page 1257-1264

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1 (cont.)	Water	Disperse dyes - Disperse Violet 1 - Disperse Yellow 1 - Disperse Yellow 9 - Disperse Yellow 39 - Disperse Yellow 54 - Solvent Yellow 1 - Solvent Yellow 2 - Solvent Yellow 3 - Solvent Yellow 14 10.0 µg/L to 50.0 µg/L	In - house method : LBLC-18002 based on Journal of Chromatographic Science 2015, 53 : page 1257-1264

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1 (cont.)	Water	Flame retardant - Tris (2,3-dibromopropyl) phosphate - Bis (2,3-dibromopropyl) phosphate - Bis (2,2-bromomethyl)-1,3-propanediol 1.00 µg/L to 4.00 µg/L - Glycol 20 µg/L to 100 µg/L	In - house method : LBLC-18001 based on ISO 18857-2 : 2009 In - house method : LBGC-18012 based on United States Environmental Protection Agency, 2014, EPA, Method 600/R-14/008

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1 (cont.)	Water	- Conductivity 147 $\mu\text{S}/\text{cm}$ to 12 880 $\mu\text{S}/\text{cm}$ - Total solids dried from 103 °C to 105 °C 50 mg/L to 20 000 mg/L - Total suspended solids dried from 103 °C to 105 °C 5 mg/L to 10 000 mg/L	In - house method : LBEN-02110 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2510 B In - house method : LBEN-09150 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2540 B In - house method : LBEN-97042 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2540 D

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1 (cont.)	Water	<p>- Total dissolved solids dried at 180 °C 50 mg/L to 20 000 mg/L</p> <p>- Total hardness (Calculates as CaCO₃) 1 mg/L to 300 mg/L</p> <p>- BOD 2 mg/L to 2 100 mg/L</p>	<p>In - house method : LBEN-00106 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C</p> <p>In - house method : LBEN-00098 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2340 C</p> <p>In - house method : LBEN-97006 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B</p>

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1 (cont.)	Water	- COD 10 mg/L to 300 mg/L	In - house method : LBEN-97010 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 5220 C
		- COD 10 mg/L to 400 mg/L	In - house method : LBEN-12161 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 5220 D
		- pH 4.0 to 9.2	In - house method : LBEN-21001 based on United States Environmental Protection Agency, Editorial Revision 1978, 1982, EPA, Method 150.1

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1 (cont.)	Water	- Nitrate 0.02 mg/L to 6.0 mg/L	In - house method : LBEN-97029 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500-NO ₃ ⁻ E
		- Nitrite 0.02 mg/L to 1.0 mg/L	In - house method : LBEN-97049 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500-NO ₂ ⁻ B
		- Sulfate 2.0 mg/L to 100.0 mg/L	In - house method : LBEN-14003 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500-SO ₄ ²⁻ E

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1 (cont.)	Water	- Total organic carbon 0.5 mg/L to 10.0 mg/L Perfluorocarbons (PFCs) : - PFPeA - PFBS - PFHxS - PFHpS - PF-3,7-DMOA - PFDA - PFOS - PFUnA - PFDoA - PFDS 0.05 µg/L to 0.3 µg/L	In - house method : LBEN-09149 based on United States Environmental Protection Agency, 2004, EPA, Method 9060 A, Revision 1.0 In - house method : LBLC-17014 based on DIN 38407-42 : 2011-03

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1 (cont.)	Water	Perfluorocarbons (PFCs) : - PFTTrA - PFTTeA - PFOSA 0.05 µg/L to 0.3 µg/L Alkyl phenol ethoxylate : - OPEO - NPEO 1 µg/L to 10 µg/L Chlorobenzenes and Chlorotoluenes (COCs) : - Chlorobenzene - 2-Chlorotoluene - 3-Chlorotoluene - 4-Chlorotoluene 0.20 µg/L to 5.00 µg/L	In – house method : LBLC-17014 based on DIN 38407-42 : 2011-03 In – house method : LBLC-17013 based on ISO 18857-2 : 2009 In – house method : LBGC-21010 based on United States Environmental Protection Agency, 2014, EPA, Method 8270 E (SW-846)

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1 (cont.)	Water	Chlorobenzenes and Chlorotoluenes (COCs) : - 1,3-Dichlorobenzene - 1,4-Dichlorobenzene - 1,2-Dichlorobenzene - 3,5-Dichlorotoluene - 2,4-Dichlorotoluene - 2,5 Dichlorotoluene - 2,6-Dichlorotoluene - 1,3,5-Trichlorobenzene - 2,3-Dichlorotoluene - 3,4-Dichlorotoluene - 1,2,4-Trichlorobenzene - 1,2,3-Trichlorobenzene 0.20 µg/L to 5.00 µg/L	In – house method : LBGC-21010 based on United States Environmental Protection Agency, 2014, EPA, Method 8270 E (SW-846)

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1 (cont.)	Water	Chlorobenzenes and Chlorotoluenes (COCs) : - 2,4,6-Trichlorotoluene - 2,4,5 -Trichlorotoluene - 2,3,6-Trichlorotoluene - 1,2,3,5-Tetrachlorobenzene - 3,4,5-Trichlorotoluene - 1,2,4,5-Tetrachlorobenzene - 2,3,4-Trichlorotoluene - 1,2,3,4-Tetrachlorobenzene - 2,3,4,6-Tetrachlorotoluene - 2,3,5,6-Tetrachlorotoluene - 2,3,4,5-Tetrachlorotoluene - Pentachlorobenzene - 2,3,4,5,6-Pentachlorotoluene - Hexachlorobenzene 0.20 µg/L to 5.00 µg/L	In – house method : LBGC-21010 based on United States Environmental Protection Agency, 2014, EPA, Method 8270

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
1 (cont.)	Water	Alkylphenol (AP) : - Nonylphenol (NP) - 4-n-Nonyl phenol (4-n-NP) - 4-n-Octylphenol (4-n-OP) - Octylphenol (4-tert-OP) 1.0 µg/L to 10.0 µg/L - Carbon disulfide 0.05 mg/L to 1 mg/L - Thiourea and quinoline 50 µg/L to 1 000 µg/L	In – house method : LBLC-17013 based on ISO 18857-2 : 2009 In – house method : LBGC-20007 based on United States Environmental Protection Agency, 2017, EPA, Method 8260 D In – house method : LBLC-22021 based on DIN 54231 : 2005-11

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2	Wastewater	<p>- Mercury 0.5 µg/L to 8.0 µg/L</p> <p>- pH 4.0 to 10.0</p> <p>- Total solids dried from 103 °C to 105 °C 50 mg/L to 20 000 mg/L</p>	<p>In - house method : LBEN-08145 based on United States Environmental Protection Agency, 1994, EPA, Method 245.1, Revision 3.0</p> <p>In - house method : LBEN-09152 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-H⁺ B</p> <p>In - house method : LBEN-09150 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 B</p>

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	- Total suspended solids dried from 103 °C to 105 °C 5 mg/L to 10 000 mg/L - Total dissolved solids dried at 180 °C 50 mg/L to 20 000 mg/L - Conductivity 147 µS/cm to 12 880 µS/cm	In - house method : LBEN-97042 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2540 D In - house method : LBEN-00106 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2540 C In - house method : LBEN-02110 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2510 B

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	- Total hardness (Calculates as CaCO ₃) 2 mg/L to 500 mg/L - BOD 2 mg/L to 2 100 mg/L - COD 10 mg/L to 3 000 mg/L	In - house method : LBEN-00098 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2340 C In - house method : LBEN-97006 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 5210 B In - house method : LBEN-97010 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 5220 C

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	- COD 10 mg/L to 500 mg/L	In - house method : LBEN-12161 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 5220 D
		- pH 4.0 to 9.2	In - house method : LBEN-21001 based on United States Environmental Protection Agency, Editorial Revision 1978, 1982, EPA, Method 150.1
		- Nitrate 0.02 mg/L to 15.0 mg/L	In - house method : LBEN-97029 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500-NO ₃ ⁻ E

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	- Nitrite 0.02 mg/L to 1.0 mg/L	In - house method : LBEN-97049 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500-NO ₂ ⁻ B
		- Sulfate 2.0 mg/L to 100.0 mg/L	In - house method : LBEN-14003 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500-SO ₄ ²⁻ E
		- Total organic carbon 0.5 mg/L to 10.0 mg/L	In - house method : LBEN-09149 based on United States Environmental Protection Agency, 2004, EPA, Method 9060 A, Revision 1.0

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	- Ammonia-Nitrogen 0.02 mg/L to 20 mg/L	In - house method : LBEN-11158 based on ASTM D1426-08
		- Total phosphorus 0.01 mg/L to 40 mg/L	In - house method : LBEN-97037 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500-P B4, E
		- Dissolved phosphorus 0.005 mg/L to 20 mg/L	In - house method : LBEN-97037 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500-P B1, E

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2 (cont.)	Wastewater	- Glycol 20 µg/L to 200 µg/L - Ammonia-Nitrogen 0.10 mg/L to 10.0 mg/L - Total phosphorus 0.10 mg/L to 10.0 mg/L	In - house method : LBGC-18012 based on United States Environmental Protection Agency, 2014, EPA, Method 600/R-14/008 In - house method : LBEN-19003 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500 - NH ₃ -F In - house method : LBEN -19002 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500-P J

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	- Chloride 1.0 mg/L to 20 000 mg/L	In - house method : LBEN-11157 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500-Cl ⁻ D
		- Navy blue 1.0 mg/L to 7.5 mg/L	In - house method : LBLC-19004 based on United States Environmental Protection Agency, 2007, EPA, Method 8321B

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	Perfluorocarbons (PFCs) : - PFPeA - PFBS - PFHxS - PFHpS - PF-3,7-DMOA - PFDA - PFOS - PFUnA - PFDaA - PFDS - PFTTrA - PFTeA - PFOSA 0.05 µg/L to 0.3 µg/L	In – house method : LBLC-17014 based on DIN 38407-42 : 2011-03

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2 (cont.)	Wastewater	Perfluorinated / Polyfluorinated chemicals (PFCs) : <ul style="list-style-type: none"> - PFBS - PFPeA - PFHxA - PFHxS - PFHpA - HPPHpA - PFOS/POSF - PFOSA - PFHpS - PFOA - MeFOSA - EtFOSA - MeFOSE - EtFOSE 0.01 µg/L to 0.20 µg/L	In – house method : LBLC-17014 based on DIN 38407-42 : 2011-03

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2 (cont.)	Wastewater	Perfluorinated / Polyfluorinated chemicals (PFCs) : - PFNA - PFDA - PFDS - PFUnA - PFDoA - PFTTrA - PFTeA - PF-3,7 DMOA - PFPeS - PFNS - PFUnS - PFDoS - PFTTrDS 0.01 µg/L to 0.20 µg/L	In – house method : LBLC-17014 based on DIN 38407-42 : 2011-03

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2 (cont.)	Wastewater	Alkyl phenol ethoxylate : - OPEO - NPEO 1 µg/L to 10 µg/L - Phenol 0.001 mg/L to 0.1 mg/L - Cyanide 0.05 mg/L to 0.2 mg/L	In – house method : LBLC-17013 based on ISO 18857-2 : 2009 In – house method : LBEN-15007 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed.,2017, part 5530 B, C In – house method : LBEN-97018 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed.,2017, part 4500-CN ⁻ C, E

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	- Oil and Grease 1 mg/L to 100 mg/L	In – house method : LBEN-97031 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed.,2017, part 5520 B
		- Oil and Grease 0.5 mg/L to 100 mg/L	In - house method : LBEN-18005 based on United States Environmental Protection Agency, 2010, EPA, Method 1664, Revision B
		- Sulfide 0.01 mg/L to 1.0 mg/L	In – house method : LBEN-97045 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed.,2017, part 4500-S ²⁻ -D

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2 (cont.)	Wastewater	- Sulfite 0.75 mg/L to 3.0 mg/L - Total kjeldahl nitrogen 2 mg/L to 200 mg/L - Color 0.10 m ⁻¹ to 10.00 m ⁻¹ Anti microbial and biocide : - O-Phenylphenol - Triclosan - Permethrin - Bisphenol A 0.2 µg/L to 4.0 µg/L	In - house method : LBEN-18006 based on United States Environmental Protection Agency, 1978, EPA, Method 377.1 In - house method : LBAG-18002 based on ISO 5663 : 1984 ISO 7887 : 2011, Method B United States Environmental Protection Agency, 2014, EPA, Method 8270 E (SW-846)

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2 (cont.)	Wastewater	<ul style="list-style-type: none"> - N'N-Dimethylformamide (DMFa) 0.50 µg/L to 10.00 µg/L - Thiourea and quinoline 50 µg/L to 1 000 µg/L UV Absorbers : <ul style="list-style-type: none"> - 2-(2H-Benzotriazol-2-yl)-4- (tert-butyl)-6-(sec- butyl) phenol, (UV 350) - 2-(2H-Benzotriazol-2-yl)-4,6-di-tert-pentylphenol, (UV 328) - 2-Benzotriazole-2-yl-4,6-di-tert-butylphenol, (UV 320) - 2,4-Di-tert-butyl-6-(5-chlorobenzotriazol-2-yl) phenol, (UV 327) 10 µg/L to 50 µg/L 	<ul style="list-style-type: none"> United States Environmental Protection Agency, 2017, EPA, Method 8260 D (SW-846) In – house method : LBLC-22021 based on DIN 54231 : 2005-11 United States Environmental Protection Agency, 2014, EPA, Method 8270 E (SW-846)

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2 (cont.)	Wastewater	Volatile organic compounds (VOCs) : - Toluene 1 µg/L to 25 µg/L Chlorinated paraffin : - Medium-chain chlorinated paraffins (MCCPs) (C14-C17) - Short-chain chlorinated paraffins (SCCPs) (C10-C13) 5 µg/L to 50 µg/L	United States Environmental Protection Agency, 2017, EPA, Method 8260 D (SW-846) ISO 18219-2 : 2021 ISO 18219-1 : 2021

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2 (cont.)	Wastewater	- Arsenic 0.63 µg/L to 6.25 µg/L - Lead 0.63 µg/L to 6.25 µg/L - Cadmium 0.63 µg/L to 6.25 µg/L - Copper 0.63 µg/L to 6.25 µg/L - Manganese 0.63 µg/L to 6.25 µg/L - Nickel 0.63 µg/L to 6.25 µg/L - Zinc 2.5 µg/L to 62.5 µg/L - Silver 2.5 µg/L to 62.5 µg/L	In – house method : LBEN-14004 based on United States Environmental Protection Agency, 2014, EPA, Method 6020 B, Revision 2

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	- Chromium 0.63 µg/L to 12.5 µg/L - Antimony 0.63 µg/L to 12.5 µg/L - Cobalt 1.25 µg/L to 62.5 µg/L - Barium 1.25 µg/L to 62.5 µg/L - Boron 1.25 µg/L to 62.5 µg/L - Selenium 0.63 µg/L to 12.5 µg/L - Tin 0.13 µg/L to 6.25 µg/L	In – house method : LBEN-14004 based on United States Environmental Protection Agency, 2014, EPA, Method 6020 B, Revision 2

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	- Hexavalent chromium 1.0 µg/L to 5.0 µg/L Flame retardant - Tris (2,3-dibromopropyl) phosphate - Bis (2,3-dibromopropyl) phosphate 1.00 µg/L to 4.00 µg/L	ISO 18412 : 2005 In - house method : LBLC-18001 based on ISO 18857-2 : 2009

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2 (cont.)	Wastewater	Disperse dyes - Disperse Blue 1 - Disperse Blue 7 - Disperse Brown 1 - Disperse Orange 1 - Disperse Orange 3 - Disperse Orange 11 - Disperse Orange 37/76 - Disperse Red 1 - Disperse Yellow 1 - Disperse Yellow 9 - Disperse Yellow 39 - Basic violet 3 - Solvent Yellow 1 - Solvent Yellow 2 - Solvent Yellow 3 10.0 µg/L to 50.0 µg/L	In - house method : LBLC-18002 based on Journal of Chromatographic Science 2015,53 : page 1257-1264

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2 (cont.)	Wastewater	Disperse dyes - Basic violet 1 - Solvent Yellow 14 - Disperse Yellow 54 - Disperse Violet 1 10.0 µg/L to 50.0 µg/L Azo colorants - Aniline - n-Methylaniline - p-Toluidine - o-Toluidine - m-Toluidine - n-Ethylaniline - 2-Chloroaniline - 2,4-Xylidine 2,6-Xylidine 0.5 µg/L to 3.0 µg/L	In - house method : LBLC-18002 based on Journal of Chromatographic Science 2015,53 : page 1257-1264 In - house method : SOP LBGC-18004 based on ISO 14362-1 : 2017

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2 (cont.)	Wastewater	Azo colorants - o-Anisidine - 4-Chloroaniline - n,n-diethylaniline - p-Cresidine - 2,4,5-Trimethylaniline - 4-Chloro-o-toluidine - 2,4-Toluenediamine - 2,4-Diaminoanisole - 2-Naphtylamine - 5-Nitro-o-toluidine - 5-Nitro-o-anisidine - 4-Aminobiphenyl - 4-Aminoazobenzene - 4,4'-Oxydianiline - Benzidine 0.5 µg/L to 3.0 µg/L	In - house method : SOP LBGC-18004 based on ISO 14362-1 : 2017

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2 (cont.)	Wastewater	Azo colorants - 4,4'-Thiodianiline - o-Aminoazotoluene - 3,3'-Dimethyl-4,4'-diaminodiphenylmethane - 3,3'-Dimethylbenzidine - 4,4'-Thiodianiline - 3,3'-Dichlorobenzidine - 4,4'-Methylenebis (2-Chloroaniline) - 3,3'-Dimethoxybenzidine 0.5 µg/L to 3.0 µg/L	In - house method : SOP LBGC-18004 based on ISO 14362-1 : 2017

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	Flame retardants - 2,2-bis(bromomethyl)-1,3-propane-diol - Tris (2-chloroethyl) phosphate - Tris (1,3-dichloro-isopropyl) phosphate - Hexabromocyclododecane 5 µg/L to 25 µg/L - Polybrominated biphenyls ether - polybrominated diphenyl ethers 0.25 µg/L to 1.5 µg/L	In - house method : LBGC-18005 based on United States Environmental Protection Agency, 2005, EPA, Method 527, Revision 1.0

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	Organotin compounds - Trimethyltin(TMT) - Dimethyltin(DMT) - Dipropyltin-dichloride(DProT) - Monobutyltin(MBT) - Tripropyltin(TPrT) - Dibutyltin(DBT) - Tributyltin(TBT) - Monooctyltin(MOT) - Tetrabutyltin(TeBT) - Diphenyltin(DPhT) - Dioctyltin(DOT) - Triphenyltin(TPhT) - Tri-cyclohexyltin(TCyT) - Tri-n-octyltin(TOT) 0.05 µg/L to 1.0 µg/L	In - house method : SOP LBGC-18006 based on ISO 17353 : 2004

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	Polycyclic Aromatic Hydrocarbons (PAH) - Naphthalene - 2-Methylnaphthalene - 1-Methylnaphthalene - Acenaphthylene - Acenaphthene - Fluorene - Phenanthrene - Anthracene - Fluoranthene - Pyrene - Cyclopenta (c,d) pyrene - Benzo(a) Anthracene - Chrysene 1.0 µg/L to 20.0 µg/L	In - house method : LBGC-18008 based on DIN 38407-39 : 2011

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2 (cont.)	Wastewater	Polycyclic Aromatic Hydrocarbons (PAH) - Benzo(b) Fluoranthene - Benzo(j) Fluoranthene - Benzo(k) Fluoranthene - Benzo(e) Pyrene - Benzo(a) Pyrene - Indenol(1,2,3-cd) Pyrene - Dibenzo (ah) Anthracene - Benzo (ghi) perylene 1.0 µg/L to 20.0 µg/L	In - house method : LBGC-18008 based on DIN 38407-39 : 2011

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	Chlorophenol - 4-Chloro-3-methylphenol - 2-Chlorophenol - 3-Chlorophenol - 4-Chlorophenol - 2,4-Dichlorophenol - 2,5-Dichlorophenol - 2,6-Dichlorophenol - 3,5-Dichlorophenol - 2,3-Dichlorophenol - 3,4-Dichlorophenol - Pentachlorophenol - 2,3,4,6-Tetrachlorophenol - 2,4,5-Trichlorophenol - 2,4,6-Trichlorophenol - 2,3,4-Trichlorophenol 0.5 µg/L to 20.0 µg/L	In - house method : SOP LBGC-18003 based on ISO 17070 : 2015

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	Chlorophenol - 2,3,4,5-Tetrachlorophenol - 2,3,5-Trichlorophenol - 2,3,5,6-Tetrachlorophenol - 2,3,6-Trichlorophenol - 3,4,5-Trichlorophenol 0.5 µg/L to 20.0 µg/L Phthalates - Dimethyl phthalate - Diethyl phthalate - Bis-iso-buthyl ester phthalate - Benzyl buthyl phthalate - Di-n-octyl phthalate - Di-2-ethyl hexyl phthalate - Di-isononyl phthalate - Bis methylglycol ester phthalate 5 µg/L to 30 µg/L	In - house method : SOP LBGC-18003 based on ISO 17070 : 2015 In - house method : LBGC-18007 based on ISO 18856 : 2004

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	Phthalates - Di-isoheptyl phthalate - Bis cyclohexyl phthalate - Di-n-octyl phthalate - Bis-(2-propylheptyl) phthalate - Bis-nonyl phthalate - Bis-propyl phthalate - Bis-iso-pentyl phthalate - n-pentyl-iso-pentyl phthalate - Bis-n-pentyl phthalate - Di-n-hexyl phthalate - Bis-iso-octhyl phthalate - Di-isodecyl phthalate 5 µg/L to 30 µg/L	In - house method : LBGC-18007 based on ISO 18856 : 2004

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	Volatile organic compounds - Methylene Chloride - Benzene - 1,2-Dichloroethane - Trichloroethylene - Tetrachloroethylene - Total Xylene 5 µg/L to 20 µg/L - p- Cresol - o- Cresol - m- Cresol 5 µg/L to 25 µg/L	In - house method : SOP LBGC-18009 based on United States Environmental Protection Agency, 1996, EPA, Method 8260 D, Revision 2.0 In - house method : LBGC-18010 based on United States Environmental Protection Agency, 1996, EPA, Method 8260 B, Revision 2.0

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2 (cont.)	Wastewater	Perfluorocarbons (PFCs) : - 6:2 FTOH - 8:2 FTOH - 10:2 FTOH - 6:2 FTA - 8:2 FTA - 10:2 FTA 5 µg/L to 25 µg/L Chlorobenzenes and Chlorotoluenes (COCs) : - Chlorobenzene - 2-Chlorotoluene - 3-Chlorotoluene - 4-Chlorotoluene 0.20 µg/L to 5.00 µg/L	In - house method : LBGC-18011 based on DIN 38407-42 : 2011 In – house method : LBGC-21010 based on United States Environmental Protection Agency, 2014, EPA, Method 8270 E (SW-846)

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	Chlorobenzenes and Chlorotoluenes (COCs) : - 1,3-Dichlorobenzene - 1,4-Dichlorobenzene - 1,2-Dichlorobenzene - 3,5-Dichlorotoluene - 2,4-Dichlorotoluene - 2,5 Dichlorotoluene - 2,6-Dichlorotoluene - 1,3,5-Trichlorobenzene - 2,3-Dichlorotoluene - 3,4-Dichlorotoluene - 1,2,4-Trichlorobenzene - 1,2,3-Trichlorobenzene - 2,4,6-Trichlorotoluene - 2,4,5 -Trichlorotoluene 0.20 µg/L to 5.00 µg/L	In – house method : LBGC-21010 based on United States Environmental Protection Agency, 2014, EPA, Method 8270 E (SW-846)

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	Chlorobenzenes and Chlorotoluenes (COCs) : - 1,2,3,5-Tetrachlorobenzene - 3,4,5-Trichlorotoluene - 1,2,4,5-Tetrachlorobenzene - 2,3,4-Trichlorotoluene - 1,2,3,4-Tetrachlorobenzene - 2,3,4,6-Tetrachlorotoluene - 2,3,5,6-Tetrachlorotoluene - 2,3,4,5-Tetrachlorotoluene - Pentachlorobenzene - 2,3,4,5,6-Pentachlorotoluene - Hexachlorobenzene 0.20 µg/L to 5.00 µg/L	In – house method : LBGC-21010 based on United States Environmental Protection Agency, 2014, EPA, Method 8270 E (SW-846)

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	Alkylphenol (AP) : - Nonylphenol (NP) - 4-n-Nonyl phenol (4-n-NP) - 4-n-Octylphenol (4-n-OP) - Octylphenol (4-tert-OP) 1.0 µg/L to 10.0 µg/L - Carbon disulfide 0.05 mg/L to 1 mg/L - Hydrocarbon 1.0 mg/L to 50 mg/L	In – house method : LBLC-17013 based on ISO 18857-2: 2009 In – house method : LBGC-20007 based on United States Environmental Protection Agency, 2017, EPA, Method 8260 D In - house method : LBEN 21002 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 5220 B, 5520 F

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	- Coliforms MPN/100 mL Detected or Not detected/100 mL - Coliforms CFU/100 mL - <i>E.coli</i> MPN/100 mL Detected or Not detected/100 mL	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed, 2017, part 9221 B ISO 9308 -1: 2014 / Amd.1: 2016 Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed, 2017, part 9221 B, 9221 C, 9221 F and FDA BAM Online, 2020 (Chapter 4)
3	Surface water	- Ammonia-Nitrogen 0.02 mg/L to 20 mg/L	In - house method : LBEN-11158 based on ASTM D1426-08

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
3 (cont.)	Surface water	- Chloride 1 mg/L to 20 000 mg/L - Total phosphorus 0.01 mg/L to 40 mg/L - Dissolved phosphorus 0.005 mg/L to 20 mg/L	In - house method : LBEN-11157 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500-Cl ⁻ D In - house method : LBEN-97037 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500-P B4, E In - house method : LBEN-97037 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500-P B1, E

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
4	Sludge	- Mercury 0.1 mg/kg to 4.0 mg/kg - Hexavalent chromium 1.0 mg/kg to 40.0 mg/kg - Fecal coliforms MPN/g	In - house method : LBEN-18008 based on United States Environmental Protection Agency, 2007, EPA, Method 7473, Revision 0 In - house method : LBEN-18003 based on United States Environmental Protection Agency, 1992, EPA, Method 7196 A, Revision 1 United States Environmental Protection Agency, 2006, EPA, Method 1681

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
4 (cont.)	Sludge	- Arsenic 0.50 mg/kg to 5.00 mg/kg - Cadmium 0.50 mg/kg to 5.00 mg/kg - Lead 0.50 mg/kg to 5.00 mg/kg - Zinc 1.00 mg/kg to 5.00 mg/kg - Nickel 1.00 mg/kg to 5.00 mg/kg - Copper 1.00 mg/kg to 5.00 mg/kg - Cadmium 10 mg/kg to 1 000 mg/kg - Lead 10 mg/kg to 1 000 mg/kg	In - house method : LBEN 18007 based on United States Environmental Protection Agency, 2014, EPA, Method 6020 B, Revision 2

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
4 (cont.)	Sludge	<ul style="list-style-type: none"> - Barium 1.00 mg/kg to 50.00 mg/kg - Selenium 0.50 mg/kg to 10.00 mg/kg - Antimony 0.50 mg/kg to 10.00 mg/kg - Chromium 0.50 mg/kg to 10.00 mg/kg - Cobalt 1.00 mg/kg to 50.00 mg/kg - Silver 1.00 mg/kg to 50.00 mg/kg - Mercury 0.10 mg/kg to 5.00 mg/kg - Cyanide 0.50 mg/kg to 10.0 mg/kg 	<p>In - house method : LBEN-18007 based on United States Environmental Protection Agency, 2014, EPA, Method 6020 B, Revision 2</p> <p>In - house method : SOP LBEN-19001 based on ISO 11262 : 2011</p>

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
5	Sludge Waste	Chlorophenol : - 4-Chloro-3-methylphenol - 2-Chlorophenol - 3-Chlorophenol - 4-Chlorophenol - 2,3-Dichlorophenol - 2,4-Dichlorophenol - 2,5-Dichlorophenol - 2,6-Dichlorophenol - 3,4-Dichlorophenol - 3,5-Dichlorophenol - Pentachlorophenol - 2,3,4-Trichlorophenol - 2,3,5-Trichlorophenol - 2,3,6-Trichlorophenol 0.05 mg/kg to 1.00 mg/kg	In - house method : SOP LBGC-20004 based on ISO 14154 : 2005

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
5 (cont.)	Sludge Waste	Chlorophenol : - 2,4,5-Trichlorophenol - 2,4,6-Trichlorophenol - 3,4,5-Trichlorophenol - 2,3,4,5-Tetrachlorophenol - 2,3,4,6-Tetrachlorophenol - 2,3,5,6-Tetrachlorophenol 0.05 mg/kg to 1.00 mg/kg	In - house method : SOP LBGC-20004 based on ISO 14154 : 2005

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
5 (cont.)	Sludge Waste	Polycyclic Aromatic Hydrocarbons (PAHs) : - Naphthalene - 2-Methylnaphthalene - 1-Methylnaphthalene - Acenaphthylene - Acenaphthene - Fluorene - Phenanthrene - Anthracene - Fluoranthene - Pyrene - Cyclopenta (c,d) pyrene - Benzo(a) anthracene - Chrysene 0.0025 mg/kg to 0.1 mg/kg	In - house method : SOP LBGC-20005 based on DIN 38407-39 : 2011

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
5 (cont.)	Sludge Waste	Polycyclic Aromatic Hydrocarbons (PAHs) : - Benzo(k) fluoranthene - Benzo(b) fluoranthene - Benzo(j) fluoranthene - Benzo(e) pyrene - Benzo(a) pyrene - Indenol(1,2,3-cd) pyrene - Dibenzo (ah) anthracene - Benzo (ghi) perylene 0.0025 mg/kg to 0.1 mg/kg	In - house method : SOP LBGC-20005 based on DIN 38407-39 : 2011

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5 (cont.)	Sludge Waste	Glycol : - 2-Methoxyethanol - 2-Ethoxyethyl acetate - Bis(2-methoxyethyl)ether - 2-Ethoxyethanol - 2-Methoxypropylacetate - 2-Methoxyethylacetate - Triethylene glycol dimethyl ether - Ethylene glycol dimethyl ether 0.50 mg/kg to 5.00 mg/kg Organotin Compounds : - Trimethyltin (TMT) - Dimethyltin (DMT) - Monomethyltin(MMT) - Dipropyltin-dichloride (DProT) 0.50 mg/kg to 2.00 mg/kg	In - house method : SOP LBGC-21011 based on ISO 23161 : 2018

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5 (cont.)	Sludge Waste	Organotin Compounds : - Monobutyltin (MBT) - Tripropyltin (TPrT) - Dibutyltin (DBT) - Monophenyltin (MPHT) - Tributyltin (TBT) - Monooctyltin (MOT) - Tetrabutyltin (TeBT) - Diphenyltin (DPHT) - Dioctyltin (DOT) - Tri-cyclohexyltin (TCyT) - Triphenyltin (TPHT) - Tri-n-octyltin (TOT) 0.50 mg/kg to 2.00 mg/kg	In - house method : SOP LBG-21011 based on ISO 23161 : 2018

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
5 (cont.)	Sludge Waste	Disperse dyes : - Acid Violet 49 - Basic Blue 26 - Basic Green 4 - Basic Red 9 - Basic Violet 1 - Basic Violet 3 - Disperse Blue 1 - Disperse Blue 3 - Disperse Blue 7 - Disperse Blue 106 - Disperse Yellow 1 - Disperse Yellow 3 - Disperse Yellow 9 - Disperse Red 17 - Solvent Yellow 1 - Solvent Yellow 3 1.00 mg/kg to 4.00 mg/kg	In - house method : SOP LBGC-21006 based on ISO 16373-3 : 2014

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5 (cont.)	Sludge Waste	Chlorobenzenes and Chlorotoluenes (COCs) : - Chlorobenzene - 2-Chlorotoluene - 3-Chlorotoluene - 4-Chlorotoluene - 1,3-Dichlorobenzene - 1,4-Dichlorobenzene - 1,2-Dichlorobenzene - 2,4-Dichlorotoluene - 2,5-Dichlorotoluene - 2,6-Dichlorotoluene - 1,3,5-Trichlorobenzene - 2,3-Dichlorotoluene - 3,4-Dichlorotoluene 0.025 mg/kg to 0.50 mg/kg	In - house method : LBGC-21014 based on United States Environmental Protection Agency, 2014, EPA, Method 8270D

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5 (cont.)	Sludge Waste	Chlorobenzenes and Chlorotoluenes (COCs) : - 1,2,4-Trichlorobenzene - 1,2,3-Trichlorobenzene - 2,4,6-Trichlorotoluene - 2,4,5 -Trichlorotoluene - 2,3,6-Trichlorotoluene - 1,2,3,5-Tetrachlorobenzene - 3,4,5-Trichlorotoluene - 1,2,4,5-Tetrachlorobenzene - 2,3,4-Tetrachlorotoluene - 1,2,3,4-Tetrachlorobenzene - 2,3,4,6-Tetrachlorotoluene - 2,3,5,6-Tetrachlorotoluene - 2,3,4,5-Tetrachlorotoluene 0.025 mg/kg to 0.50 mg/kg	In - house method : LBGC-21014 based on United States Environmental Protection Agency, 2014, EPA, Method 8270D

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
5 (cont.)	Sludge Waste	Chlorobenzenes and Chlorotoluenes (COCs) : - Pentachlorobenzene - 2,3,4,5,6-Pentachlorotoluene - Hexachlorobenzene 0.025 mg/kg to 0.50 mg/kg Azo dyes : - Aniline (62-53-3) - n-methylaniline (100-61-8) - p-Toluidine (106-49-0) - o-Toluidine (95-53-4) - m-Toluidine (108-44-1) - n-ethylaniline (103-69-5) - 2-Chloroaniline (95-51-2) 0.20 mg/kg to 1.50 mg/kg	In - house method : LBGC-21014 based on United States Environmental Protection Agency, 2014, EPA, Method 8270D In - house method : LBGC-21019 based on ISO 14362-1 and 3 : 2017

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5 (cont.)	Sludge Waste	Azo dyes : - 2,4-Xylidine (95-68-1) - 2,6-Xylidine (87-62-7) - o-Anisidine (90-04-0) - 4-Chloroaniline (106-47-8) - n,n-Diethylaniline (91-66-7) - p-Cresidine (120-71-8) - 2,4,5 -Trimethylaniline (137-17-7) - 4-Chloro-o-toluidine (95-69-2) - 2,4-Toluenediamine (95-80-7) - 2,4 -Diaminoanisole (615-05-4) - 2-Naphtylamine (91-59-8) - 3,3'-dimethybenzidine (119-90-4) - 3,3'-dimethybenzidine (119-93-7) 0.20 mg/kg to 1.50 mg/kg	In - house method : LBGC-21019 based on ISO 14362-1 and 3 : 2017

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5 (cont.)	Sludge Waste	Azo dyes : - 4,4'-Thiodianiline (139-65-1) - 3,3'-Dichlorobenzidine (91-94-1) - 4,4'-Methylene bis(2-chloroaniline) (101-14-4) - 4-Aminobipheny (92-67-1) - 4,4'-Oxydianiline (101-80-4) - Benzindine (92-87-5) - 4,4'-Thiodianiline (101-77-9) - 3,3'-Dimethy- 4,4'-diaminodiphenymethane (838-88-0) 0.20 mg/kg to 1.50 mg/kg	In - house method : LBGC-21019 based on ISO 14362-1 and 3 : 2017

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5 (cont.)	Sludge Waste	Perfluorinated/Polyfluorinated (PFCs) : - 1H,1H,2H,2H-Tridecafluoro-1-n-octanol (6:2 FTOH) - 1H,1H,2H,2H-Heptadecafluoro-1-decanol (8:2 FTOH) - 1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH) - 1H,1H,2H,2H-Perfluorooctyl acrylate (6:2 FTA) - 1H,1H,2H,2H-Heptadecafluorodecyl Acrylate (8:2 FTA) - 1H,1H,2H,2H-Perfluorododecyl acrylate (10:2 FTA) 0.25 mg/kg to 1.5 mg/kg	In - house method : LBGC-21023 based on DIN 38407-42 : 2011

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5 (cont.)	Sludge Waste	Perfluorinated/Polyfluorinated (PFCs) : - PFOA - PFOS - PFBS - PFHXA 0.025 mg/kg to 0.15 mg/kg Flame retardant : - Tris(2-chloroethyl) phosphate (TCEP) - Tris(1,3-dichloro-isopropyl) phosphate (TDCP) - Hexabromocyclododecane (HBCDD) - Tri-o-cresyl phosphate (TOCP) - Tris-(aziridinyl)phosphine oxide (TEPA) - Polybromobiphenyls (PBB) - Polybromobiphenyls ether (PBDE) 0.25 mg/kg to 0.75 mg/kg	In - house method : LBLC-17014 based on DIN 38407-42 : 2011 In - house method : LBGC-21020 based on ISO 22032 : 2006

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5 (cont.)	Sludge Waste	Flame retardant : - Tris(2,3-dibromopropyl) phosphate - Bis(2,3-dibromopropyl) phosphate - 2,2-Bis(bromomethyl)-1,3-propanediol 0.5 mg/kg to 2 mg/kg Alkylphenol (AP) : - Nonylphenol (NP) - 4-n-Nonyl phenol (4-n-NP) - 4-n-Octylphenol (4-n-OP) - Octylphenol (4-tert-OP) 0.5 mg/kg to 5 mg/kg Alkylphenol Ethoxylates (APEOs) : - Nonylphenol ethoxylates (NPEO) - Octylphenol ethoxylates (OPEO) 0.1 mg/kg to 2 mg/kg	In - house method : LBLC-18001 based on ISO 22032 : 2006 In - house method : LBLC-17013 based on ISO 18857-2 : 2009 In - house method : LBLC-17013 based on ISO 18857-2 : 2009

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5 (cont.)	Sludge Waste	Volatile Organic compound (Halogenated solvent) : - Methylene chloride - Benzene - 1,2-Dichloroethane - Trichloroethylene - tetrachloroethylene - p,m Xylene - o-xylene 0.02 mg/kg to 0.20 mg/kg	In - house method : LBGC-21024 based on United States Environmental Protection Agency, 2014, EPA, Method 5021

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5 (cont.)	Sludge Waste	Phthalates : - Dimethyl phthalate (DMP) - Bis-iso-butyl ester Phthalate (DIBP) - Di-butyl Phthalate (DBP) - Benzyl Butyl Phthalate (BBP) - Di-2-Ethyl Hexyl Phthalate (DEHP) - Di-n-octyl Phthalate (DNOP) - Bis-ethyl phthalate (DEP) - Bis-methylglycol ester Phthalate (DMEP) - Bis-iso-pentyl ester Phthalate (DiPP) - n-Pentyl-iso-Pentyl phthalate (iPnPP) - Bis-n-pentyl ester Phthalate (DnPP) - Di-n-hexyl Phthalate (DnHP/DnHxP) - Bis-cyclohexyl phthalate (DCHP) - Bis-(2-Propylheptyl) phthalate (DPHP) 0.05 mg/kg to 1.5 mg/kg	In – house method : LBGC-21021 based on ISO 18856 : 2004

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5 (cont.)	Sludge Waste	Phthalates : - Bis-propyl phthalate (DPrP) - Bis-n-heptyl phthalate (DHpP/DnHpP) - Bis-phenylphthalate(DIPHENYL/ DPhP) - Bis-benzyl phthalate (DBzP) - Bis-nonyl phthalate (DNP) - Didecyl Phthalate (DDP) - Diundecyl phthalate(DUDP) 0.05 mg/kg to 1.5 mg/kg - Diisononyl Phthalate (DINP) - Diisodecyl Phthalate (DIDP) - Dihexyl Phthalate (DHP) - Bis-iso-octyl phthalate (DIOP) - Diisoheptyl phthalate (DIHP/DIHpP) 0.20 mg/kg to 6.0 mg/kg	In – house method : LBGC-21021 based on ISO 18856 : 2004

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5 (cont.)	Sludge Waste	Volatile Organic compound (Cresol) : - o-cresol - m-cresol - p-cresol 0.25 mg/kg to 1.5 mg/kg	In - house method : LBGC-21022 based on United States Environmental Protection Agency, 2017, EPA, Method 8260 D
6	Chemical fertilizer	- Water soluble potassium (Calculated as K ₂ O) 1.0 g/100 g to 60.4 g/100 g - Total Nitrogen 1.0 g/100 g to 46.5 g/100 g	In - house method : SOP LBCH-99246 based on Notification of Ministry of Agriculture and Cooperatives Re: Prescribing the methods of analysis of chemical fertilizers, B.E. 2559, method 1.12.02 In - house method : SOP LBAG-12276 based on Notification of Ministry of Agriculture and Cooperatives Re: Prescribing the methods of analysis of chemical fertilizers, B.E. 2559, method 1.05.01

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6 (cont.)	Chemical fertilizer	- Total phosphorus (Calculated P_2O_5) 2.00 g/100 g to 61.68 g/100 g - Calcium oxide (Calculated from total calcium) 0.02 g/100 g to 51.8 g/100 g - Magnesium oxide (Calculated from total magnesium) 0.02 g/100 g to 81.04 g/100 g	In - house method : SOP LBAG-00106 based on Notification of Ministry of Agriculture and Cooperatives Re: Prescribing the methods of analysis of chemical fertilizers, B.E. 2559, method 1.09.01 In - house method : SOP LBCH-16010 based on Notification of Ministry of Agriculture and Cooperatives Re: Prescribing the methods of analysis of chemical fertilizers, B.E. 2559, method 1.13.01 In - house method : SOP LBCH-16010 based on Notification of Ministry of Agriculture and Cooperatives Re: Prescribing the methods of analysis of chemical fertilizers, B.E. 2559, method 1.14.01

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6 (cont.)	Chemical fertilizer	- Total sulfur 0.02 g/100 g to 32.76 g/100 g	In - house method : SOP LBCH-16010 based on Notification of Ministry of Agriculture and Cooperatives Re: Prescribing the methods of analysis of chemical fertilizers, B.E. 2559, method 1.15.01

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