

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 1361 Accredited to ISO/IEC 17025:2017	South West Water Limited	
	Issue No: 089 Issue date: 28 February 2025	
	Scientific Services Laboratory Bridge Road Countess Wear EX2 7AA	Contact: Kirsty Harris Tel: +44 (0)1392 205738 Fax: +44 (0)1392 421419 E-Mail: kharris@southwestwater.co.uk Website: www.southwestwater.co.uk

Testing performed by the Organisation at the locations specified

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code	
Address Scientific Services Laboratory Bridge Road Countess Wear Exeter EX2 7AA	Local contact Ms. K Harris Tel: +44(0)1392 205738 Email: kharris@southwestwater.co.uk	Testing: Inorganic Chemistry Organic Chemistry Microbiology	Exeter
Address Porthellick Laboratory Porthellick Pumping Station St Mary's TR21 0NZ	Local contact Ms. K Harris Tel: +44(0)1392 205738 Email: kharris@southwestwater.co.uk	Testing: Microbiology	St Mary's



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[SECTION 1 Exeter – DWTS methods and ISO17025 accredited](#)

[SECTION 2 Exeter – MCERTS waters methods and ISO17025 accredited](#)

[SECTION 3 Exeter – ISO 17025 accredited only methods](#)

[SECTION 4 St Mary's Isles of Scilly – DWTS methods and ISO17025 accredited](#)



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
SECTION 1 EXETER - DWTS & ISO 17025		
WATERS	<u>Chemical and Physical Tests</u> Testing for the purpose of enforcement of the Water Supply (Water Quality) Regulations 2016 [SI 614].	The testing is in accordance with the Drinking Water Testing Specification (DWTS). Documented In-House Methods based on/incorporating procedures in the HMSO series 'Methods for the Examination of Waters and Associated Materials' ISBN reference in parentheses
Raw (Surface Water and Groundwater) Drinking Waters,	Colour	Spectrophotometry Method ref: INO 6 COLOUR (0117519553, 1981, A3)
Raw (Surface Water and Groundwater) and Drinking Waters	Turbidity	Nephelometry Method ref: INO 1 TURBIDITY (0117519553, 1981, B2)
Raw (Surface Water and Groundwater), Drinking Waters	pH Alkalinity at pH 4.5 Conductivity	Method ref: INO 03 PHYSICAL CHEMISTRY (SP2000 and Metrohm instrumentation) (0117514284, 1978) (0117516015, 1981) (0117514284, 1978)
Raw (Surface Water and Groundwater) Drinking Waters	UV Transmittance (by calculation) UV Absorbance (at 254nm)	Method ref: INO 08 UV ABS by Spec
Raw (Surface Water and Groundwater) and Drinking Waters	Ammonium Chloride Nitrate by calculation Nitrite Total Oxidised Nitrogen Ortho-Phosphate	Automated Colorimetric Analysis Method ref: INO 12 NUTRIENTS (0117516139, 1981, F) (0117515930, 1981, D) (0117515930, 1981, D) (0117515930, 1981, H) (0117515930, 1981, D) (0117515825, 1980, A) (0117515574, 1980, B)
Surface Water and Drinking Waters	Silicate	Automated Colorimetric Analysis Method ref: INO 12 NUTRIENTS



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<p>WATERS (cont'd)</p> <p>Raw (Surface Water and Groundwater) and Drinking Waters</p> <p>Raw (Surface Water and Groundwater) and Drinking Waters</p> <p>Raw (Surface Water and Groundwater) and Drinking Waters</p>	<p><u>Chemical and Physical Tests</u> For the purpose of enforcement of the Water Supply (Water Quality) Regulations 2016 [SI 614] (cont'd)</p> <p>Fluoride</p> <p>Total Organic Carbon Dissolved Organic Carbon</p> <p>Metals: LOW RANGE: Total and Dissolved unless otherwise stated</p> <p>Aluminium Antimony Arsenic Boron Barium Calcium Cadmium Chromium Copper Iron Lead Magnesium Manganese Mercury Nickel Phosphorus Potassium Selenium Sodium Sulphate Uranium Zinc</p>	<p>The testing is in accordance with the Drinking Water Testing Specification (DWTS).</p> <p>Method ref: INO 5 FLUORIDE by Ion Selective Electrode (0117516627, 1982) (HACH MM340)</p> <p>Method ref: INO 11 TOC L by Thermal Oxidation</p> <p>Method MET 01 METALS and CATIONS based on inductively coupled plasma spectrometry 1996 Method B Methods for examination of water and associated materials (0117532444)</p>



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<p>WATERS (cont'd)</p> <p>Raw (Surface Water and Groundwater) and Drinking Waters</p>	<p><u>Chemical and Physical Tests</u> For the purpose of enforcement of the Water Supply (Water Quality) Regulations 2016 [SI 614] (cont'd)</p> <p>Ionic Balance Alkalinity at pH 8.3 as mg/1 CaCO₃ Alkalinity Bicarbonate as mg/1 HC0₃ Alkalinity Carbonate as mg/1 HC0₃ Alkalinity Hydroxide as mg/1 HC0₃ Alkalinity (Total) at pH 4.5 as mg/1 CaCO₃ Carbon Dioxide Free as mg/1 CO₂ Hardness Calcium as mg/1 Ca Hardness Carbonate as mg/1 Ca Hardness Magnesium as mg/1 Ca Hardness Non-Carbonate as mg/1 Ca Hardness Calcium as mg/1 CaCO₃ Hardness Magnesium as mg/1 CaCO₃ Hardness Total as mg/1 Ca Hardness Total as mg/1 CaCO₃</p> <p>Ammonium Unionised as mg/1 NH₄ Ammonium Unionised as % NH₄ Nitrate NO₃ / Nitrite NO₂ Ratio Sum Nitrite (Total) as mg/1 N</p>	<p>The testing is in accordance with the Drinking Water Testing Specification (DWTS).</p> <p>By calculation By calculation</p>
<p>Raw (Surface Water and Groundwater) and Drinking Waters</p>	<p>Polycyclic Aromatic Hydrocarbons (PAH) including: Benzo (b) fluoranthene Benzo (k) fluoranthene Benzo (a) pyrene Benzo (ghi) perylene Indeno (1,2,3 cd) pyrene</p>	<p>HPLC-Fluorimetric detection (0117520322, A)</p> <p>Method ref: ORG -05 PAH</p>



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<p>WATERS (cont'd)</p> <p>Raw (Surface Water and Groundwater) and Drinking Waters</p> <p>Drinking Waters</p> <p>Raw (Surface Water and Groundwater & WTW influent), Treated Waters and Drinking Waters</p>	<p><u>Chemical and Physical Tests</u> For the purpose of enforcement of the Water Supply (Water Quality) Regulations 2016 [SI 614] (cont'd)</p> <p>Pesticides by GC-MS including: Chlorothalonil Chlorpyrifos Cyprodinil Diazinon Dichlobenil Dieldrin Diflufenican Epoxyconazole Fenpropimorph Lindane Pendimethalin</p> <p>Taste and Odour</p> <p>Geosmin 2-methylisoborneol (MIB)</p>	<p>The testing is in accordance with the Drinking Water Testing Specification (DWTS).</p> <p>Capillary Gas-Chromatography - Mass Spectrometry (0117513733) Method ref: ORG -02 Insecticides</p> <p>In House method ref TNO-01 TASTE AND ODOUR based on SCA "The determination of taste and odour in drinking waters (2014)" using assessed panel</p> <p>Documented in house method based on bluebook 226 The Determination of Metaldehyde in Waters using Chromatography with Mass Spectrometric detection (2009) and book 171 The assessment of taste, odour and related aesthetic problems in drinking waters 1998. Method ref: ORG -04 MIB GEOSMIN</p>



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WATERS (cont'd)	<u>Chemical and Physical Tests</u> For the purpose of enforcement of the Water Supply (Water Quality) Regulations 2016 [SI 614] (cont'd)	The testing is in accordance with the Drinking Water Testing Specification (DWTS).
Raw (Surface Water and Groundwater) and Drinking Waters	2,4-D 2,4-DB Asulam Bentazone Bromoxynil Clopyralid Dicamba Dichlorprop Diclofenac Fluroxypyr Ibuprofen Ioxynil MCPA MCPB Mecoprop Naproxen Pentachlorophenol (PCP) Picloram Quinmerac Trichlopyr	Method ref: ORG -07 AHERB - Acid Herbicides by LC-MSMS
Raw (Surface Water and Groundwater) and Drinking Waters	Neutral Herbicides: Range 0-250ng/l Cyromazine Metamitron Propamocarb Carbendazim Simazine Chlorotoluron Diuron Atrazine Isoproturon Linuron Azoxystrobin Propyzamide Boscalid Tebuconazole	Documented in house method Method ref: ORG -06 NHERBMS by LC-MSMS



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WATERS (cont'd)	<u>Chemical and Physical Tests</u> For the purpose of enforcement of the Water Supply (Water Quality) Regulations 2016 [SI 614] (cont'd)	The testing is in accordance with the Drinking Water Testing Specification (DWTS).
Raw (Surface Water and Groundwater) and Drinking Waters	Trichloromethane (Chloroform) 1,2-Dichloroethane* Benzene* Tetrachloromethane* Trichloroethene* Bromodichloromethane* Tetrachloroethene* Dibromochloromethane* Tribromomethane (Bromoform)* Methyl-tert-butylether (MBTE) Methylbenzene (Toluene) Ethylbenzene 1,3-Dimethylbenzene/1,4-Dimethylbenzene (m & p xylene) 1,2-Dimethylbenzene (O-xylene) Ethenylbenzene (Styrene) Naphthalene	Method ref: ORG 03 VOC by headspace GCMS (Shimadzu), * Indicates also analysed on Agilent system
Raw (Surface Water and Groundwater) and Drinking Waters	Gross α relative to Am ²⁴¹ Gross β relative to K ⁴⁰	Method ref: RAD-01 based on: BS ISO 9696:2007 BS ISO 9697:2008 SCA(HMSO) (01175909X, 1986)
Drinking Waters and Groundwaters	Radon 222 and Radium 226	Method ref: RAD-03 & RAD-04
Drinking Waters, Surface Waters and Groundwaters	Tritium	Method ref: RAD-02



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
WATERS (cont'd)	<u>Microbiological Tests</u> For the purpose of enforcement of the Water Supply (Water Quality) Regulations 2016 [SI 614]	The testing is in accordance with the Drinking Water Testing Specification (DWTS)
Raw (Surface Water and Groundwater)	Total Coliforms, <i>E coli</i> , presumptive - membrane filtration	Method ref: C EC BY MF. MoDW Part 4 (2016) and MoREW Part 3 (2016)
Drinking Waters, Raw (Surface Water and Groundwater) and	Total Coliforms, <i>E Coli</i> confirmed - Colilert	Method ref: TC and EC Colilert. MoDW Part 4 (2016) and MoREW Part 3 (2016)
Drinking Waters, Raw (Surface Water and Groundwater)	Faecal Streptococci (Enterococci), presumptive and confirmed - membrane filtration	Method ref: E BY MF. MoDW Part 5 (2012) and MoREW Part 4 (2015)
Drinking Waters and Raw (Groundwater)	Faecal Streptococci (Enterococci), confirmed - Enterolert	Method ref: E BY ENTEROLERT. MoDW Part 5 (2012) and MoREW Part 4 (2015)
Drinking Waters and raw (Surface Water and Groundwater)	Total Viable Counts - by Pour Plate at 22 °C and 37 °C	Method ref: TVC BY POUR PLATE. MoDW Part 7 (2020)
Drinking Waters, Raw (Surface Water and Groundwater)	<i>Clostridium perfringens</i> , presumptive and confirmed - membrane filtration	Method ref: C PERFRINGENS BY MF. MoDW Part 6 (2021)
Drinking Waters, Raw (Surface Water and Groundwater)	Detection and enumeration of <i>Cryptosporidium</i> oocysts	Method ref: Crypto by Filta-max xpress. MoDW Part 14 (2010)
Drinking Waters	<i>Pseudomonas aeruginosa</i> - Confirmed - Pseudalert	Method ref: P AERUGINOSA BY PSEUDALERT. MoDW Part 8 (2015)

END OF SECTION 1



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SECTION 2 EXETER MCERTS Waters & ISO 17025		
WASTEWATERS to MCERTS	<u>Chemical Tests</u>	Documented In-House Method to meet the requirements of the Environment Agency MCERTS Performance Standard – sampling and chemical testing of untreated sewage, sewage effluent and trade effluent
Saline Treated Sewage Effluent Untreated Sewage, Treated Sewage Effluent, Trade Effluent to Sewer and Controlled Waters	BOD	Analysis by dissolved oxygen probe Method ref: INO 09BOD
Treated Sewage Effluent, Saline treated Sewage Effluent, Trade Effluent to Sewer and Controlled Waters	Total, and settled COD: Low range (5-80mg/l)	Method ref: INO 07 COD Merck by Spectrophotometer
Untreated sewage effluent, Saline untreated Sewage Effluent, and Trade Effluent to Sewer and Controlled Waters	Total, and settled COD: High range (25-1500mg/l)	Method ref: INO 07 COD Merck by Spectrophotometer
Untreated Sewage, Treated Sewage Effluent, Trade Effluent to Sewer and Controlled Waters	pH	Method ref: INO 04 pH COND ALK IN WASTE by electrode
Untreated Sewage, Treated Sewage Effluent, Trade Effluent to Sewer and Controlled Waters and Saline Treated Effluents	Suspended solids	Method ref: INO 02 SUSPENDED SOLIDS
Treated Sewage Effluent, Saline Treated Sewage Effluent, Trade Effluent to Controlled Water, Trade Effluent to Sewer	Ammonia Nitrite	Method ref: INO 13 Nutrients in Waste by automated discrete colorimetric analyser
Treated Sewage Effluent, Untreated Sewage, Saline Treated Sewage, Trade Effluent to Controlled Water, Trade Effluent to Sewer	Chloride	Method ref: INO 13 Nutrients in Waste by Automated discrete colorimetric Analyser



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<p>WASTEWATERS to MCERTS (cont'd)</p> <p>Treated Sewage, Saline Treated Sewage, Trade Effluent to Sewer, Trade Effluent to Controlled Water</p> <p>Treated Sewage, Trade Effluent to Sewer, Trade Effluent to Controlled Water</p> <p>Treated Sewage, Saline Treated Sewage, Trade Effluent to Sewer</p> <p>Treated Sewage, Saline Treated Sewage, Trade Effluent to Controlled Water</p> <p>Treated Sewage, Trade Effluent to Sewer, Trade Effluent to Controlled Water</p>	<p><u>Chemical Tests</u> (cont'd)</p> <p>Total and Dissolved Elements: Aluminium Chromium Iron Manganese Nickel Phosphorus Silver Tin</p> <p>Total & Dissolved Elements: Cadmium Copper Lead</p> <p>Total & Dissolved Elements: Zinc</p> <p>Total Elements: Calcium</p> <p>Total Elements: Potassium Magnesium Sodium Sulphur</p>	<p>Documented In-House Method to meet the requirements of the Environment Agency MCERTS Performance Standard – sampling and chemical testing of untreated sewage, sewage effluent and trade effluent</p> <p>Method ref: MET 02 METALS & CATIONS BY ICPOES</p> <p>Method ref: MET 02 METALS & CATIONS BY ICPOES</p> <p>Method ref: MET 02 METALS & CATIONS BY ICPOES</p> <p>Method ref: MET 02 METALS & CATIONS BY ICPOES</p> <p>Method ref: MET 02 METALS & CATIONS BY ICPOES</p>



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<p>WASTEWATERS to MCERTS (cont'd)</p> <p>Untreated and Treated Industrial and Domestic Waste Waters, and LEACHATES (from landfill sites)</p> <p>Untreated Sewage, Saline Untreated Sewage, Treated Sewage, Saline Treated Sewage Trade Effluent to Sewer, Trade Effluent to Controlled Water</p>	<p>Chemical Tests</p> <p>Hardness Calcium as mg/l Ca Hardness Carbonate as mg/l Ca Hardness Magnesium as mg/l Ca Hardness Non Carbonate as mg/l Ca Hardness Calcium as mg/l CaCO₃ Hardness Magnesium as mg/l CaCO₃ Hardness Total as mg/l Ca Hardness Total as mg/l CaCO₃</p> <p>Ammonium (Total) as mg/l NH₄ Nitrite (Total) as mg/l N</p> <p>Total Sulphur</p>	<p>Documented In-House Method to Meet the requirements of the Environment Agency MCERTS Performance Standard – sampling And chemical testing of untreated Sewage, sewage effluent, and trade effluent</p> <p>By Calculation By Calculation By Calculation By Calculation By Calculation By Calculation By Calculation By Calculation By Calculation By Calculation</p> <p>Method Ref: MET 02 METALS & CATIONS BY ICPOES</p>

END OF SECTION 2



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
SECTION 3 EXETER – ISO 17025 only methods		
<p>WATERS</p> <p>Recreational Water (man made)</p> <p>Recreational Water (man made) and Treated Sewage Effluent</p> <p>Drinking waters and Surface Waters</p> <p>Recreational Waters (man made)</p> <p>Recreational Water (man made)</p> <p>Raw (Surface Water and Groundwater)</p> <p>Land Leachate</p> <p>Raw (Surface Water and Groundwater)</p>	<p align="center"><u>Chemical and Physical Tests</u></p> <p>Colour</p> <p>Turbidity</p> <p>Silicate</p> <p>Total Organic Carbon Dissolved Organic Carbon</p> <p>Fluoride</p> <p>Total, and settled COD: Low range (5-80mg/l)</p> <p>Total, and settled COD: High range (25-1500mg/l)</p> <p>BOD</p>	<p>Documented In-House Methods based on/incorporating procedures in the HMSO series 'Methods for the Examination of Waters and Associated Materials' ISBN reference in parentheses</p> <p>Spectrophotometry Method ref: INO 06 COLOUR (0117519553, 1981, A3)</p> <p>Nephelometry Method ref: INO 01TURBIDITY (0117519553, 1981, B2)</p> <p>Method Ref:INO 12 NUTRIENTS (0117515574, 1980, B)</p> <p>Method ref: INO 11TOC L</p> <p>Electrochemistry Method ref: INO 05 FLUORIDE (0117516627, 1982)</p> <p>Method ref: INO 07 COD Merck by Spectrophotometer</p> <p>Method ref: INO 07 COD Merck by Spectrophotometer</p> <p>Method ref: INO 09 BOD by BOD robot</p>



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WATERS (cont'd)	<u>Chemical and Physical Tests</u> (cont'd)	
Raw (Surface Water and Groundwater)	Suspended Solids	Method ref: Suspended Solids
SALINE WATERS	<u>Chemical and Physical Tests</u>	Documented In-House Methods
Saline Water	Dissolved Oxygen in mg/l and as % saturation O ₂ (by calculation)	Titrimetry Method ref: INO 10 DISSOLVED OXYGEN (011751442X, 1979)
Saline Water	Suspended Solids	Gravimetry Method ref: INO 02 SUSPENDE SOLIDS (011751957X, 1980)
Saline Water	Turbidity	Method Ref: INO 01 Turbidity



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
	<u>Microbiological Tests</u>	Documented In-House Methods based on:
Recreational Waters (man made), Recreational Waters (natural)	Total Coliforms, <i>E. coli</i> presumptive - membrane filtration	Method ref: C EC BY MF. MoDW Part 4 (2016) and MoREW Part 3 (2016)
Recreational Waters (man made)	Total Coliforms and <i>E. Coli</i> , Confirmed - Colilert	Method ref: TC & EC Colilert, MoDW Part 4 (2016) & MoREW Part 3 (2016)
Recreational Waters (man made), Recreational Waters (natural)	Faecal Streptococci (Enterococci), presumptive and confirmed - membrane filtration	Method ref: E BY MF. MoDW Part 5 (2012) and MoREW Part 4 (2015)
Recreational Waters (man made)	Faecal Streptococci (Enterococci), confirmed - Enterolert	Method ref: E BY ENTEROLERT, MoDW Part 5 (2012) and MoREW Part 4 (2015)
Recreational Waters (man made)	<i>Clostridium perfringens</i> , presumptive and confirmed - membrane filtration	Method ref: C PERFRINGENS BY MF. MoDW Part 6 (2021) and MoREW Part 5 (2015)
Recreational Waters (man made), Recreational Waters (natural), Saline Waters	Total Viable Counts - by Pour Plate at 22 °C and 37 °C	Method ref: TVC BY POUR PLATE. MoDW Part 7 (2020)
Recreational Waters (man-made)	<i>Pseudomonas aeruginosa</i> , Confirmed - Pseudalert	Method ref: P AERUGINOSA BY PSEUDALERT MoREW Part 7
Raw (Surface Water and Groundwater)	Identification and Enumeration of Planktonic Algae (concentration by membrane filtration and microscopic examination)	Method ref: ALGAL CELLS IN WATER Method reference: Enumeration and Identification of Algae (2024)



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WASTE WATERS	<u>Chemical and Physical Tests</u>	Documented In-House Methods based on Standing Committee of Analysts Methods (HMSO) ISBN
Untreated and Treated Industrial and Domestic Waste Waters, and LEACHATES (from landfill sites)	Biochemical Oxygen Demand	Analysis by dissolved oxygen probe utilizing a robotic analyser Method ref: INO 09 BOD (0117522120, 1988)
	Chemical Oxygen Demand	Method ref: INO 07 COD (0117519154, 1986, B)
Untreated and Treated Industrial and Domestic Waste Waters, and LEACHATES (from landfill sites) -	pH, Alkalinity, Conductivity	Method ref: INO 04 pH COND ALK IN WASTE (0117514284, 1978) (0117516015, 1981) (0117514284, 1978)
	Alkalinity (Total) at pH 4.5 as mg/l CaCO ₃	By Calculation
Untreated and Treated Industrial and Domestic Waste Waters, and LEACHATES (from landfill sites)	Suspended Solids and	Gravimetry Method ref: INO 02 SUSPENDED SOLIDS (011751957X, 1980)
Treated Sewage, Trade Effluent to Controlled Waters, Trade Effluent to Sewer, Landfill Leachate	Total Oxidised Nitrogen	Method Ref: INO 13 Nutrients in Waste by automated discrete colorimetric analyser
Landfill Leachate	Ammonia	Method Ref: INO 13 Nutrients in Waste by automated discrete colorimetric analyser



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<p>LEACHATES</p> <p>Leachates</p>	<p><u>Chemical and Physical Tests</u></p> <p>Total and Dissolved Metals:</p> <p>Silver Tin</p>	<p>Documented In-House Methods based on Standing Committee of Analysts Methods (HMSO) ISBN</p> <p>Method Ref: MET 02 METALS & CATIONS By ICPOES</p>



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p>WATERS Please move this section to the micro bits above</p> <p>Treated and Partially Treated Sewage, Untreated Sewage, Saline Waters</p> <p>Limed Sewage Sludge</p> <p>Sewage Sludge, (including Composted, Limed, Digested and Raw)</p>	<p><u>Microbiological Tests</u></p> <p>Total Coliforms, presumptive - membrane filtration</p> <p><i>E. coli</i>, presumptive - membrane filtration</p> <p>Faecal Streptococci (Enterococci), presumptive - membrane filtration</p> <p><i>Salmonella</i> spp, presumptive presence/absence</p> <p><i>E. coli</i>, Presumptive- membrane filtration</p>	<p>Documented In-House Methods based on:</p> <p>Method ref: C EC BY MF. MoREW Part 3 (2016)</p> <p>Method ref: E BY MF.MoREW Part 4 (2015)</p> <p>Method ref: SALM P/A IN SLUDGE. MoSS Part 4 (2004)</p> <p>Method ref: EC IN SLUDGE BY MF. MoSS Part 3 (2024)</p>

END OF SECTION 3

