


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

| | | |
|---|---|--|
|  <p>UKAS TESTING</p> <p>1314</p> <p>Accredited to ISO/IEC 17025:2017</p> | <p>ALS Laboratories (UK) Limited</p> <p>Issue No: 166 Issue date: 05 February 2024</p> | |
| | <p>Torrington Avenue Coventry West Midlands CV4 9GU</p> | <p>Contact: Mr Christopher Caird Tel: +44 (0)2476 421213 E-Mail: christopher.caird@alsglobal.com Website: www.alsenvironmental.co.uk</p> |
| <p>Testing performed by the Organisation at the locations specified below</p> | | |

Locations covered by the organisation and their relevant activities

Laboratory locations:

| Location details | Activity | Location code |
|---|---|---|
| <p>Address Coventry Laboratory Torrington Avenue Coventry West Midlands CV4 9GU</p> | <p>Local contact: Ms C Peacock Tel: +44 (0)2476 856458 E-Mail: claire.peacock@alsglobal.com</p> | <p>Testing: Inorganic chemistry Organic chemistry Microbiology</p> <p>Coventry</p> |
| <p>Address Wakefield Laboratory Unit 11, Silkwood Park Janes Hill Off Albert Drive Wakefield WF5 9TG</p> | <p>Local contact: Mr J Mace Tel: +44 (0)1924 818108 E-Mail: jonathan.mace@alsglobal.com</p> | <p>Testing: Inorganic chemistry Organic chemistry Microbiology Radiochemistry</p> <p>Wakefield</p> |
| <p>Address DOL Laboratory Units 7 & 8 Hawarden Business Park Manor Road, off Manor Lane Hawarden Deeside CH5 3US</p> | <p>Local contact: Mr J Mace Tel: +44 (0)1924 818108 E-Mail: jonathan.mace@alsglobal.com</p> | <p>Testing: Inorganic chemistry Organic chemistry</p> <p>DOL</p> |
| <p>Address Dublin Service Centre Unit D12, North City Enterprise Park, North Road Dublin 11</p> | <p>Local Contact : Mr C Caird Tel: +44 (0)2476 421213 E-Mail: christopher.caird@alsglobal.com</p> | <p>Customer Services / Contract Review, Courier Services, Sample Registration and Storage</p> <p>Dublin</p> |



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Site activities performed away from the locations listed above:

| Location details | Activity |
|---|---|
| Sewage Treatment Works Water Treatment Works | Sampling and on-site testing |
| Customer taps and service reservoirs | Sampling and on-site testing |
| Customer Sites requiring Gas sampling | Sampling of Landfill gases Sampling of Biogenic gases |
| Customer Sites requiring Waste water sampling | Sampling of Ground Water, Surface Water and Trade effluent |
| Customer Sites requiring sampling for Legionella analysis | Sampling of Drinking Water (non-regulatory), Process Water and Recreational water |

This schedule is ordered as follows:

[Section 1 Coventry Laboratory](#)

[Section 2 Wakefield Laboratory](#)

[Section 3 DOL Laboratory](#)

[Section 4 Sampling and On-site testing](#)

Note: Accreditation to MCERTS automatically confers an equivalent accreditation to ISO/IEC17025.

Note: Accreditation to DWTS automatically confers an equivalent accreditation to ISO/IEC17025.



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SECTION 1

DETAIL OF ACCREDITATION at the COVENTRY LABORATORY

Coventry Tests – Inorganics

| | | | |
|---------------------------------------|--|---|---|
| Alkalinity | Biological Oxygen Demand (BOD) | Chemical Oxygen Demand (COD) | Colour |
| Colour Scan | Cyanide | Dissolved Oxygen (DO) | Fluoride |
| Formaldehyde | Hexavalent Chromium | Inhalable & Respirable Particulate Matter | Monohydroxyphenol |
| Non-Ionic Detergents | Nutrients | Nutrients Low Level | Particulate Matter |
| pH & Conductivity | PM10 or PM2.5 Particulate Matter | Turbidity | Suspended Solids & Ashed Solids |
| Thiocyanate | Total and Kjeldahl Nitrogen | Total Solids & Dissolved Solids | Sulphide |
| Total Solids | Low Level Orthophosphate | Total Organic Carbon (TOC) | |

Coventry Tests – Metals

| | | | |
|-------------------------|----------------------------------|-----------------------------------|----------------------------------|
| Mercury | Metals by ICP-MS | Metals by ICP-OES | Metals by ICP-MS |
|-------------------------|----------------------------------|-----------------------------------|----------------------------------|

Coventry Tests – Organics

| | | | |
|---|--|--|--|
| Acid Herbicides and Benzonitrile Herbicides | Bromide, Sulphate and Chloride | BTEX, Trihalomethanes, Chlorinated Solvents, Styrene, and MTBE | Dissolved Oestrogenic Steroids |
| Emerging Organic Contaminants by HRAM-LCMS | Emerging Organic Contaminants by LCMSMS | Extractable Hydrocarbons (EH) C6-C40 | Extractable Petroleum Hydrocarbons (EPH) C10-C44 |
| Hexabromocyclododecane (HBCDD) | Low Level Volatile Organic Compounds by Headspace GCMS | Mecoprop | Organotins |
| Pesticides | Phenols and Chlorophenols | Phenoxyalkanoic Herbicides and Phenolic Compounds | Phosphate Esters |



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Coventry Tests – Organics

| | | | |
|---|--|--|---|
| Polynuclear Aromatic Hydrocarbons | Polynuclear Aromatic Hydrocarbons (DLLME) | Pyridine | |
| Semi Volatile Organic Compounds (SVOCs) | Substituted Urea Herbicides | Trace Level Pesticides by GC-MSMS with NCI | Trace Level Pesticides and Selected Non-Polar Organic Compounds by GC-MSMS EI |
| Volatile Fatty Acids | Volatile Organic Compounds by Headspace GCMS | Volatile Petroleum Hydrocarbons C5-C10 | Bisphenol A |
| Poly and Perfluorinated Alkyl Substances (PFAS) | Solvents by Headspace GCMS | Benzotriazole & Tolytriazole | |

Coventry Tests – Microbiology & Cryptosporidium

| | | | |
|---|---|---|---|
| Algae | Chlorophyll | Clostridia | Cryptosporidium |
| E. coli per gram dry weight by membrane filtration | E coli per gram dry weight MPN | Enterococci | Enterococci in Waste & Environmental Waters |
| Heterotrophic plate count | Legionella | Pseudomonas aeruginosa | Pseudomonas spp |
| Salmonella spp | Taste and Odour | Total coliforms and E. coli | |
| Total Coliforms, Faecal Coliforms and E. coli in Waste & Environmental Waters | Total Viable Count in Process and Purified Waters | Zooplankton | |



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INORGANICS TESTS - COVENTRY LABORATORY

Alkalinity

Autotitration

Documented In-House Method Based Upon
(ISBN 0117516015, 1981)

WAS025

| Surface Water | Ground Water | Treated Sewage | Untreated Sewage | Trade to Sewer | Land Leachate | Prepared Leachate | Process Water | Recreational Water |
|---------------|---------------|----------------|------------------|----------------|---------------|-------------------|---------------|--------------------|
| ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |

Biochemical Oxygen Demand (BOD)

BOD robot and oxygen probes

Documented In-House Method Based Upon
(BS EN ISO 5815-1:2019)

WAS001

Where quoted MCERTS performance standard - chemical testing of WATERS

| Surface Water | Ground Water | Treated Sewage | Untreated Sewage | Trade to Sewer | Trade to Controlled | Land Leachate | Prepared Leachate |
|---------------|---------------|----------------|------------------|----------------|---------------------|---------------|-------------------|
| ISO/IEC 17025 | ISO/IEC 17025 | MCERTS | MCERTS | MCERTS | MCERTS | ISO/IEC 17025 | ISO/IEC 17025 |

Chemical Oxygen Demand (COD)

Closed digestion with colorimetric analysis
Documented In-House Method Based Upon
(ISBN: 011 7519154, 1986)

WAS040

Where quoted MCERTS performance standard - chemical testing of WATERS

| Surface Water | Ground Water | Treated Sewage | Untreated Sewage | Trade to Sewer | Trade to Controlled | Land Leachate | Prepared Leachate |
|---------------|---------------|----------------|------------------|----------------|---------------------|---------------|-------------------|
| ISO/IEC 17025 | ISO/IEC 17025 | MCERTS | MCERTS | MCERTS | MCERTS | ISO/IEC 17025 | ISO/IEC 17025 |

Colour

Spectrophotometric Analysis
Documented In-House Method Based Upon
(ISBN: 0117519553, 1981)

WAS065

| Surface Water | Treated Sewage | Trade to Sewer | Process Water | Recreational Water |
|---------------|----------------|----------------|---------------|--------------------|
| ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |



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Testing performed by the Organisation at the locations specified

Colour Scan

Spectrophotometric Analysis
Documented In-House Method
WAS027

Where quoted MCERTS performance standard - chemical testing of WATERS

| Treated Sewage | Untreated Sewage | Trade to Sewer | Trade to controlled |
|----------------|------------------|----------------|---------------------|
| MCERTS | MCERTS | MCERTS | MCERTS |

Cyanide

Continuous flow with UV digestion where required
Documented In-House Method Based Upon
(ISBN: 0117522198, 1988)

WAS018

Where quoted MCERTS performance standard - chemical testing of WATERS

| Analyte | Surface Water | Ground Water | Treated Sewage | Trade to Sewer | Trade to Controlled | Land Leachate | Process Water |
|--|---------------|---------------|----------------|----------------|---------------------|---------------|---------------|
| Free Cyanide | ISO/IEC 17025 | ISO/IEC 17025 | MCERTS | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Total Cyanide | ISO/IEC 17025 | ISO/IEC 17025 | MCERTS | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Complex Cyanide (calculation) | None | None | MCERTS | ISO/IEC 17025 | None | ISO/IEC 17025 | None |
| Cyanide: Total excluding iron cyanides | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |

Dissolved Oxygen

Titration
Documented In-House Method
WAS052

| Ground Water | Treated Sewage |
|---------------|----------------|
| ISO/IEC 17025 | ISO/IEC 17025 |

Fluoride

Ion Selective Electrode
Documented In-House Method Based Upon
(ISBN 011 751662 7, 1982)

WAS029

| Surface Water | Ground Water | Treated Sewage | Untreated Sewage | Trade to Sewer | Land Leachate | Prepared Leachate | Process water |
|---------------|---------------|----------------|------------------|----------------|---------------|-------------------|---------------|
| ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |



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Testing performed by the Organisation at the locations specified

Free Formaldehyde
Konelab discrete analyser
Documented In-House Method Based Upon
(ISBN: 0117516902, 1982)
WAS030

| | | |
|----------------|----------------|---------------------|
| Treated Sewage | Trade to Sewer | Trade to Controlled |
| ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |

Hexavalent Chromium
Konelab discrete analyser
Documented In-House Method Based Upon
(ISBN: 0875532357, 1999)
WAS031

| | | | | |
|---------------|---------------|----------------|----------------|---------------|
| Surface Water | Ground Water | Treated Sewage | Trade to Sewer | Land Leachate |
| ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |

Inhalable & Respirable Particulate Matter
Gravimetry
Documented In-House Method Based Upon
(MDHS 14/4:2014)
Method 75

| |
|---------------|
| Filter Papers |
| ISO/IEC 17025 |

Monohydroxyphenol
Colorimetric by Continuous flow
Documented In-House Method Based Upon
(ISBN: 0-87553-161-X, 1990)
WAS019

Where quoted MCERTS performance standard - chemical testing of WATERS

| | | | | |
|---------------|----------------|----------------|---------------|-------------------|
| Ground Water | Treated Sewage | Trade to Sewer | Land Leachate | Prepared Leachate |
| ISO/IEC 17025 | MCERTS | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |



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Testing performed by the Organisation at the locations specified

Non-ionic Detergents
Konelab discrete analyser
Documented In-House Method
WAS032

| | | |
|----------------|----------------|---------------|
| Treated Sewage | Trade to Sewer | Land Leachate |
| ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |

Nutrients
Konelab discrete analyser
Documented In-House Method
WAS036

Where quoted MCERTS performance standard - chemical testing of WATERS

| Analyte | Surface Water | Treated Sewage | Untreated Sewage | Trade to Sewer | Land Leachate | Clean Process Water | Recreational Water |
|-------------------------------|---------------|----------------|------------------|----------------|---------------|---------------------|--------------------|
| Ammonia | ISO/IEC 17025 | MCERTS | MCERTS | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Total Oxidised Nitrogen (TON) | ISO/IEC 17025 | MCERTS | MCERTS | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Nitrate (calculation) | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Nitrite | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Orthophosphate | ISO/IEC 17025 | MCERTS | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Chloride | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Sulphate | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |

Nutrients Low Level
Konelab discrete analyser
Documented In-House Method
WAS067

Where quoted MCERTS performance standard - chemical testing of WATERS

| Analyte | Ground Water | Treated Sewage | Trade to Sewer |
|---------|---------------|----------------|----------------|
| Ammonia | ISO/IEC 17025 | MCERTS | ISO/IEC 17025 |



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Testing performed by the Organisation at the locations specified

Soluble Reactive Orthophosphate Low Level

Gallery Plus discrete analyser
Documented In-House Method
WAS077

Treated Sewage

ISO/IEC 17025

Particulate Matter

Gravimetry
Documented In-House Method Based Upon
(Vallack Protocol, 1995)
Method 74

Washings Collected using Frisbee Deposition Gauges

ISO/IEC 17025

pH & Conductivity

Automated and Manual probe
Documented In-House Method Based Upon
(ISBN: 0117514284, 1978)

WAS039

Where quoted MCERTS performance standard - chemical testing of WATERS

| Analyte | Surface Water | Ground Water | Treated Sewage | Untreated Sewage | Trade to Sewer | Trade to Controlled | Land Leachate | Prepared Leachate | Process Water | Recreational Water |
|--------------------------|---------------|---------------|----------------|------------------|----------------|---------------------|---------------|-------------------|---------------|--------------------|
| pH | ISO/IEC 17025 | ISO/IEC 17025 | MCERTS | MCERTS | MCERTS | MCERTS | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Conductivity (Automated) | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None | None | None | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| Conductivity (Manual) | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None | None | None | ISO/IEC 17025 | None | ISO/IEC 17025 | None |

PM10 or PM2.5 Particulate Matter

Gravimetry
Documented In-House Method Based Upon
(BS EN 12341:2014)
Method 76

Filter Papers

ISO/IEC 17025



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Testing performed by the Organisation at the locations specified

Suspended Solids & Ashed Solids @ 450°C

Gravimetric Analysis
Documented In-House Method Based Upon
(ISBN: 011751957X, 1980)

WAS006

Where quoted MCERTS performance standard - chemical testing of WATERS

| Analyte | Surface Water | Ground Water | Treated Sewage | Untreated Sewage | Trade to Sewer | Trade to Controlled | Prepared Leachate | Process Water | Recreational Water |
|------------------|---------------|---------------|----------------|------------------|----------------|---------------------|-------------------|---------------|--------------------|
| Suspended Solids | ISO/IEC 17025 | ISO/IEC 17025 | MCERTS | MCERTS | MCERTS | MCERTS | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Ashed Solids | None | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | None | None |

Thiocyanate

Konelab discrete analyser
Documented In-House Method Based Upon
(ISBN: 0117519340, 1985)

WAS034

| Surface Water | Ground Water | Treated Sewage | Trade to Sewer | Land Leachate | Prepared Leachate |
|---------------|---------------|----------------|----------------|---------------|-------------------|
| ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |

Total and Kjeldahl Nitrogen

Continuous flow with UV/persulphate oxidation
Documented In-House Method

WAS022

Where quoted MCERTS performance standard - chemical testing of WATERS

| Analyte | Treated Sewage | Untreated Sewage | Trade to Sewer | Trade to Controlled | Surface Water |
|---------------------------------|----------------|------------------|----------------|---------------------|---------------|
| Total Nitrogen | MCERTS | MCERTS | MCERTS | MCERTS | ISO/IEC 17025 |
| Kjeldhal Nitrogen (calculation) | MCERTS | MCERTS | MCERTS | MCERTS | ISO/IEC 17025 |

Total Dissolved Solids @ 180°C

Gravimetric Analysis
Documented In-House Method Based Upon
(ISBN: 011751957X, 1980)

WAS010

| Surface Water | Ground Water | Treated Sewage | Untreated Sewage | Trade to Sewer | Land Leachate | Prepared Leachate | Process Water | Recreational Water |
|---------------|---------------|----------------|------------------|----------------|---------------|-------------------|---------------|--------------------|
| ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |



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Total Solids @ 105°C

Gravimetric Analysis
Documented In-House Method Based Upon
(ISBN: 011751957X, 1980)
WAS010

| Ground Water | Treated Sewage | Untreated Sewage | Trade to Sewer | Land Leachate | Process Water |
|---------------|----------------|------------------|----------------|---------------|---------------|
| ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |

Total Organic Carbon (TOC)

IR Analysis
Documented In-House Method Based Upon
(ISBN: 0117529796, 1995)
WAS005

| Ground Water | Treated Sewage | Untreated Sewage | Trade to Sewer | Land Leachate | Prepared Leachate |
|---------------|----------------|------------------|----------------|---------------|-------------------|
| ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |

Total Solids

Gravimetric Analysis
Documented In-House Method Based Upon
(ISBN: 0117517879, 1984)
CON 10

| Land (part of which is Soil) | Sediment | Sludge |
|---------------------------------|---------------|---------------|
| ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |

Turbidity

Nephelometric Analysis
Documented In-House Method Based Upon
(ISBN: 0117519553, 1981)
WAS066

Where quoted MCERTS performance standard - chemical testing of WATERS

| Surface Water | Ground Water | Treated Sewage | Untreated Sewage | Trade to Sewer | Process Water |
|---------------|---------------|----------------|------------------|----------------|---------------|
| ISO/IEC 17025 | ISO/IEC 17025 | MCERTS | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |



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Sulphide
Spectrophotometric Analysis
Documented In-House Method Based Upon
(ISBN: 0117517186, 1983)
WAS033

| Surface Water | Ground Water | Treated Sewage | Land Leachate | Trade to Sewer | Process Water |
|---------------|---------------|----------------|---------------|----------------|---------------|
| ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |



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METALS TESTS - COVENTRY LABORATORY

Mercury

Cold Vapour Fluorescence
Documented In-House Method Based Upon
(ISBN 0117519073, 1985)

WAS013

Where quoted MCERTS performance standard - chemical testing of WATERS

| Analyte | Surface Water | Ground Water | Treated Sewage | Untreated Sewage | Trade to Sewer | Trade to Controlled | Land Leachate | Prepared Leachate | Process Water |
|-------------------|---------------|---------------|----------------|------------------|----------------|---------------------|---------------|-------------------|---------------|
| Total Mercury | ISO/IEC 17025 | ISO/IEC 17025 | MCERTS | MCERTS | MCERTS | MCERTS | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Dissolved Mercury | ISO/IEC 17025 | ISO/IEC 17025 | MCERTS | MCERTS | MCERTS | MCERTS | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |

Metals by ICP-MS

Total and Dissolved metals by ICP-MS
Documented In-House Method

WAS076

Where quoted MCERTS performance standard - chemical testing of WATERS

| Analyte | Surface Water | Ground Water | Treated Sewage | Untreated Sewage | Trade to Sewer | Trade to Controlled | Land Leachate | Prepared Leachate | Process Water | Recreational Water |
|-----------|---------------|---------------|----------------|------------------|----------------|---------------------|---------------|-------------------|---------------|--------------------|
| Aluminium | ISO/IEC 17025 | ISO/IEC 17025 | MCERTS | MCERTS | ISO/IEC 17025 | MCERTS | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Antimony | ISO/IEC 17025 | ISO/IEC 17025 | MCERTS | MCERTS | ISO/IEC 17025 | MCERTS | ISO/IEC 17025 | ISO/IEC 17025 | None | None |
| Arsenic | ISO/IEC 17025 | ISO/IEC 17025 | MCERTS | MCERTS | ISO/IEC 17025 | MCERTS | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Barium | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Beryllium | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Boron | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Cadmium | ISO/IEC 17025 | ISO/IEC 17025 | MCERTS | MCERTS | ISO/IEC 17025 | MCERTS | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Calcium | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Chromium | ISO/IEC 17025 | ISO/IEC 17025 | MCERTS | MCERTS | ISO/IEC 17025 | MCERTS | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Cobalt | ISO/IEC 17025 | ISO/IEC 17025 | MCERTS | MCERTS | ISO/IEC 17025 | MCERTS | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Copper | ISO/IEC 17025 | ISO/IEC 17025 | MCERTS | MCERTS | ISO/IEC 17025 | MCERTS | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Iron | ISO/IEC 17025 | ISO/IEC 17025 | MCERTS | MCERTS | ISO/IEC 17025 | MCERTS | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Lead | ISO/IEC 17025 | ISO/IEC 17025 | MCERTS | MCERTS | ISO/IEC 17025 | MCERTS | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Lithium | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |



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

ALS Laboratories (UK) Limited
Issue No: 166 Issue date: 05 February 2024

Testing performed by the Organisation at the locations specified

Metals by ICP-MS

Total and Dissolved metals by ICP-MS
Documented In-House Method

WAS076

Where quoted MCERTS performance standard - chemical testing of WATERS

| Analyte | Surface Water | Ground Water | Treated Sewage | Untreated Sewage | Trade to Sewer | Trade to Controlled | Land Leachate | Prepared Leachate | Process Water | Recreational Water |
|--------------------|---------------|---------------|------------------------------------|------------------------------------|----------------|------------------------------------|---------------|-------------------|---------------|--------------------|
| Manganese | ISO/IEC 17025 | ISO/IEC 17025 | MCERTS | MCERTS | ISO/IEC 17025 | MCERTS | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Magnesium | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Molybdenum | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Nickel | ISO/IEC 17025 | ISO/IEC 17025 | MCERTS | MCERTS | ISO/IEC 17025 | MCERTS | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Phosphorus | ISO/IEC 17025 | ISO/IEC 17025 | MCERTS | MCERTS | ISO/IEC 17025 | MCERTS | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Potassium | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Selenium | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Sodium | ISO/IEC 17025 | ISO/IEC 17025 | MCERTS total only ISO/IEC 17025 | MCERTS total only ISO/IEC 17025 | ISO/IEC 17025 | MCERTS total only ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Strontium | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Tellurium | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None | None |
| Thallium | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None | None |
| Tin | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None | None |
| Titanium | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Uranium | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None | None |
| Vanadium | ISO/IEC 17025 | ISO/IEC 17025 | MCERTS total only ISO/IEC 17025 | MCERTS total only ISO/IEC 17025 | ISO/IEC 17025 | MCERTS total only ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Zinc | ISO/IEC 17025 | ISO/IEC 17025 | MCERTS | MCERTS | ISO/IEC 17025 | MCERTS | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Calcium Hardness | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Magnesium Hardness | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Total Hardness | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |



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

ALS Laboratories (UK) Limited
Issue No: 166 Issue date: 05 February 2024

Testing performed by the Organisation at the locations specified

Metals by ICP-OES
Total and Dissolved metals by ICP-OES
Documented In-House Method
WAS049

| Analyte | Surface Water | Ground Water | Treated Sewage | Untreated Sewage | Trade to Sewer | Trade to Controlled | Land Leachate | Process Water | Recreational Water |
|------------|---------------|---------------|----------------|------------------|----------------|---------------------|---------------|---------------|--------------------|
| Aluminium | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Barium | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Beryllium | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Boron | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Cadmium | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Calcium | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Chromium | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Cobalt | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Copper | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Iron | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Lead | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Lithium | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Manganese | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Magnesium | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Molybdenum | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Nickel | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Phosphorus | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Potassium | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Silver | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Sodium | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Strontium | None | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | None | None |



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ALS Laboratories (UK) Limited
Issue No: 166 Issue date: 05 February 2024

Testing performed by the Organisation at the locations specified

Metals by ICP-OES
Total and Dissolved metals by ICP-OES
Documented In-House Method
WAS049

| Analyte | Surface Water | Ground Water | Treated Sewage | Untreated Sewage | Trade to Sewer | Trade to Controlled | Land Leachate | Process Water | Recreational Water |
|----------------------|---------------|---------------|----------------|------------------|----------------|---------------------|---------------|---------------|--------------------|
| Sulphur (total only) | None | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | None | None |
| Thallium | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Tin | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Titanium | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Vanadium | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Zinc | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Calcium Hardness | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Magnesium Hardness | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Total Hardness | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |

Metals by ICP-MS
Dissolved metals by ICP-MS
Documented In-House Method
WAS072

Where quoted MCERTS performance standard - chemical testing of WATERS

| Analyte | Treated Sewage |
|---------|----------------|
| Cadmium | MCERTS |
| Copper | MCERTS |
| Lead | MCERTS |
| Nickel | MCERTS |
| Zinc | MCERTS |



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Issue No: 166 Issue date: 05 February 2024

Testing performed by the Organisation at the locations specified

ORGANICS TESTS - COVENTRY LABORATORY

Acid Herbicides and Benzonitrile Herbicides

Solid Phase Extraction, GC-MS
Documented In-House Method Based Upon
(ISBN: 0117518867, 1985)

GEO 20

| Analyte | Surface Water | Ground Water | Treated Sewage | Untreated Sewage | Trade to Sewer | Land Leachate |
|-------------------|---------------|---------------|----------------|------------------|----------------|---------------|
| 2,3,6-TBA | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| 2,4,5-T | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| 2,4-D | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| 2,4-DB | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Benazolin | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Bentazone | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Bromoxynil | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Clopyralid | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Dicamba | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Dichlorprop | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Fenoprop | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Ioxynil | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| MCPA | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| MCPB | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Mecoprop | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Pentachlorophenol | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| Trichlopyr | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |

Bromide, Sulphate and Chloride

IC
Documented In-House Method Based Upon
(ISBN: 011-752331-3, 1990)

CON 27

| Analyte | Surface Water | Ground Water | Treated Sewage | Untreated Sewage | Trade to Sewer | Land Leachate | Prepared Leachate | Process Water | Recreational Water |
|----------|---------------|---------------|----------------|------------------|----------------|---------------|-------------------|---------------|--------------------|
| Bromide | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None | None |
| Chloride | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None | None |



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Testing performed by the Organisation at the locations specified

Bromide, Sulphate and Chloride
IC
Documented In-House Method Based Upon
(ISBN: 011-752331-3, 1990)
CON 27

| Analyte | Surface Water | Ground Water | Treated Sewage | Untreated Sewage | Trade to Sewer | Land Leachate | Prepared Leachate | Process Water | Recreational Water |
|-------------------|---------------|---------------|----------------|------------------|----------------|---------------|-------------------|---------------|--------------------|
| Sulphate | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Nitrate | None | None | None | None | None | None | None | ISO/IEC 17025 | ISO/IEC 17025 |
| Nitrite | None | None | None | None | None | None | None | ISO/IEC 17025 | ISO/IEC 17025 |
| TON (calculation) | None | None | None | None | None | None | None | ISO/IEC 17025 | ISO/IEC 17025 |

BTEX, Trihalomethanes, Chlorinated Solvents, Styrene, and MTBE
Headspace GC-MS
Documented In-House Method
GEO 56

Where quoted MCERTS performance standard - chemical testing of WATERS

| Analyte | Surface Water | Ground Water | Treated Sewage | Untreated Sewage | Trade to Sewer | Trade to Controlled | Land Leachate | Prepared Leachate |
|---------------------------|---------------|---------------|----------------|------------------|----------------|---------------------|---------------|-------------------|
| 1,1,1 Trichloroethane | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| 1,1,2, Trichloroethane | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| 1,1,2,2 Tetrachloroethane | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| 1,2 Dichloroethane | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| Benzene | ISO/IEC 17025 | ISO/IEC 17025 | MCERTS | ISO/IEC 17025 | MCERTS | MCERTS | ISO/IEC 17025 | ISO/IEC 17025 |
| Bromodichloromethane | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| Bromoform | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| Carbon Tetrachloride | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| Chloroform | ISO/IEC 17025 | ISO/IEC 17025 | MCERTS | ISO/IEC 17025 | MCERTS | MCERTS | ISO/IEC 17025 | ISO/IEC 17025 |
| Dibromochloromethane | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| Ethylbenzene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| m&p Xylene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| MTBE | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| o Xylene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |



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Testing performed by the Organisation at the locations specified

BTEX, Trihalomethanes, Chlorinated Solvents, Styrene, and MTBE

Headspace GC-MS
Documented In-House Method

GEO 56

Where quoted MCERTS performance standard - chemical testing of WATERS

| Analyte | Surface Water | Ground Water | Treated Sewage | Untreated Sewage | Trade to Sewer | Trade to Controlled | Land Leachate | Prepared Leachate |
|-------------------|---------------|---------------|----------------|------------------|----------------|---------------------|---------------|-------------------|
| Styrene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| Tetrachloroethene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| Toluene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| Trichloroethene | ISO/IEC 17025 | ISO/IEC 17025 | MCERTS | ISO/IEC 17025 | MCERTS | MCERTS | ISO/IEC 17025 | ISO/IEC 17025 |

Dissolved Oestrogenic Steroids

Solid Phase Extraction, GC-MSMS
Documented In-House Method

GEO 75

| Analyte | Surface Water | Ground Water | Saline Water |
|-----------------------|---------------|---------------|---------------|
| Estrone | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| 17-β-Estradiol | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| 17-α-Ethynylestradiol | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |

Emerging Organic Contaminants

Online SPE, HRAM LC-MS
Documented In-House Method

GEO 82

| Analyte | Surface Water | Ground Water | Saline Water |
|----------------|---------------|---------------|---------------|
| Atrazine | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Bentazone | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Cloridazon | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| DEHP | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Dichloroprop-p | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Diuron | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Isoproturon | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Mecoprop | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Metribuzin | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |



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Testing performed by the Organisation at the locations specified

Emerging Organic Contaminants

Online SPE, HRAM LC-MS
Documented In-House Method

GEO 82

| Analyte | Surface Water | Ground Water | Saline Water |
|-------------------|---------------|---------------|---------------|
| Pentachlorophenol | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| PFOA | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| PFOS | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |

Emerging Organic Contaminants

Online SPE, LC-MSMS
Documented In-House Method

GEO 83

| Analyte | Surface Water | Ground Water | Saline Water |
|--------------------|---------------|---------------|---------------|
| Dichlorvos | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Diclofenac | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| MCPA | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Metsulfuron-methyl | ISO/IEC 17025 | ISO/IEC 17025 | None |
| Pirimicarb | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Simazine | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Sulfosulfuron | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Triclosan | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |

BISPHENOL A

On-line trace enrichment, LC-MSMS
Documented In-House Method

GEO 91

| Surface Water | Ground Water | Saline Water | Process Water (High Purity & DI Water) |
|---------------|---------------|---------------|---|
| ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |



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Extractable Hydrocarbons (EH) C6-C40

Liquid/liquid Extraction, GC-FID
Documented In-House Method
GEO 35

| Drinking Water (non regulatory) | Treated Sewage | Prepared Leachate |
|------------------------------------|----------------|-------------------|
| ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |

Extractable Petroleum Hydrocarbons (EPH) C10-C44

Liquid/liquid Extraction, GC-FID
Documented In-House Method
GEO 46

| Analyte | Drinking Water (non regulatory) | Treated Sewage | Prepared Leachate |
|---|------------------------------------|----------------|-------------------|
| Total EPH C10-C44 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Aromatic/Aliphatic fractionation and quantification according to carbon banding, typically: | | | |
| >C10-C12 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| >C12-C16 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| >C16-C21 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| >C21-C44 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| >C10-C16 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| >C16-C24 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| >C24-C44 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |

Hexabromocyclododecane (HBCDD)

Liquid/liquid Extraction, LC-MSMS
Documented In-House Method
GEO 80

| Analyte | Surface Water | Ground Water | Saline Water |
|--------------|---------------|---------------|---------------|
| HBCDD(Total) | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| alpha-HBCDD | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| beta-HBCDD | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| gamma-HBCDD | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |



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Low Level Volatile Organic Compounds
Headspace GC MS
Documented In-House Method
GEO 85

| Analyte | Surface Water | Ground Water | Saline Water |
|--------------------------|---------------|---------------|---------------|
| 1,1,1-Trichloroethane | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| 1,1,2-Trichloroethane | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| 1,1-Dichloroethane | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| 1,2-Dichloroethane | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| 1,2-Dichloropropane | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Benzene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Carbon Tetrachloride | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Chloroform | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| cis-1,2-Dichloroethene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Dichloromethane | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Ethylbenzene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| m,p-Xylene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Naphthalene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| o-Xylene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Tetrachloroethene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Toluene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Total xylene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| trans-1,2-Dichloroethene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Trichloroethene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |

Mecoprop
Liquid/liquid Extraction, GC-MS
Documented In-House Method
GEO 49

| Surface Water | Ground Water | Treated Sewage | Untreated Sewage | Land Leachate |
|---------------|---------------|----------------|------------------|---------------|
| ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |



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Testing performed by the Organisation at the locations specified

Organotins

Liquid/liquid Extraction, GC-MS
Documented In-House Method

GEO 24

| Analyte | Ground Water | Treated Sewage | Untreated Sewage | Trade to Sewer | Land Leachate | Prepared Leachate |
|----------------|---------------|----------------|------------------|----------------|---------------|-------------------|
| Tri-n-butyltin | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Triphenyltin | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |

Pesticides

Sequential Liquid/liquid and Solid Phase Extraction, GC-MSMS
Documented In-House Method

GEO 47

Where quoted MCERTS performance standard - chemical testing of WATERS

| Analyte | Surface Water | Ground Water | Treated Sewage | Trade to Sewer | Land Leachate |
|------------------------|---------------|---------------|----------------|----------------|---------------|
| 1,2,3 Trichlorobenzene | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| 1,2,4 Trichlorobenzene | ISO/IEC 17025 | ISO/IEC 17025 | MCERTS | MCERTS | ISO/IEC 17025 |
| 2,4 D-methyl Ester | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| 2,4 D-n-butyl Ester | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| 2,4, D-ethyl Ester | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| 2,4-D-iso-butyl Ester | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| Alachlor | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| Aldrin | ISO/IEC 17025 | ISO/IEC 17025 | MCERTS | MCERTS | ISO/IEC 17025 |
| alpha Endosulphan | ISO/IEC 17025 | ISO/IEC 17025 | MCERTS | MCERTS | ISO/IEC 17025 |
| alpha-HCH | ISO/IEC 17025 | ISO/IEC 17025 | MCERTS | MCERTS | ISO/IEC 17025 |
| Ametryn | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| Atrazine | ISO/IEC 17025 | ISO/IEC 17025 | MCERTS | MCERTS | ISO/IEC 17025 |
| Azinphos ethyl | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| Azinphos methyl | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| beta Endosulphan | ISO/IEC 17025 | ISO/IEC 17025 | MCERTS | MCERTS | ISO/IEC 17025 |
| beta-HCH | ISO/IEC 17025 | ISO/IEC 17025 | MCERTS | MCERTS | ISO/IEC 17025 |
| Carbophenothion | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| Chlorfenvinphos | ISO/IEC 17025 | ISO/IEC 17025 | MCERTS | MCERTS | ISO/IEC 17025 |
| Chlorpropham | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| Chlorpyrifos | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |



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Pesticides
Sequential Liquid/liquid and Solid Phase Extraction, GC-MSMS
Documented In-House Method
GEO 47
Where quoted MCERTS performance standard - chemical testing of WATERS

| Analyte | Surface Water | Ground Water | Treated Sewage | Trade to Sewer | Land Leachate |
|--------------------|---------------|---------------|----------------|----------------|---------------|
| cis-Chlordane | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| Coumaphos | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| Cyanazine | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| Cyfluthrin | ISO/IEC 17025 | ISO/IEC 17025 | MCERTS | MCERTS | ISO/IEC 17025 |
| Cypermethrin | ISO/IEC 17025 | ISO/IEC 17025 | MCERTS | MCERTS | ISO/IEC 17025 |
| Diazinon | ISO/IEC 17025 | ISO/IEC 17025 | MCERTS | MCERTS | ISO/IEC 17025 |
| Dichlobenil | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| Dichlorvos | ISO/IEC 17025 | ISO/IEC 17025 | MCERTS | MCERTS | ISO/IEC 17025 |
| Dieldrin | ISO/IEC 17025 | ISO/IEC 17025 | MCERTS | MCERTS | ISO/IEC 17025 |
| Diflufenican | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| Dimethoate | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| Endrin | ISO/IEC 17025 | ISO/IEC 17025 | MCERTS | MCERTS | ISO/IEC 17025 |
| EPTC | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| Ethofumesate | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| Fenitrothion | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| Fenpropridin | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| Fenthion | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| gamma-HCH | ISO/IEC 17025 | ISO/IEC 17025 | MCERTS | MCERTS | ISO/IEC 17025 |
| Heptachlor | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| Heptachlor epoxide | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| Hexachlorobenzene | ISO/IEC 17025 | ISO/IEC 17025 | MCERTS | MCERTS | ISO/IEC 17025 |
| Isodrin | ISO/IEC 17025 | ISO/IEC 17025 | MCERTS | MCERTS | ISO/IEC 17025 |
| Malathion | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| Mevinphos | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| op'-DDE | ISO/IEC 17025 | ISO/IEC 17025 | MCERTS | MCERTS | ISO/IEC 17025 |
| op'-DDT | ISO/IEC 17025 | ISO/IEC 17025 | MCERTS | MCERTS | ISO/IEC 17025 |
| op'TDE | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| Parathion ethyl | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |



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Pesticides
Sequential Liquid/liquid and Solid Phase Extraction, GC-MSMS
Documented In-House Method
GEO 47
Where quoted MCERTS performance standard - chemical testing of WATERS

| Analyte | Surface Water | Ground Water | Treated Sewage | Trade to Sewer | Land Leachate |
|---|---------------|---------------|----------------|----------------|---------------|
| Parathion methyl | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| PCB 28 | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| PCB 52 | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| PCB 101 | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| PCB 118 | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| PCB 138 | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| PCB 153 | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| PCB 180 | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| Pendimethalin | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| Pentachlorobenzene | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| cis-Permethrin | ISO/IEC 17025 | ISO/IEC 17025 | MCERTS | MCERTS | ISO/IEC 17025 |
| trans-Permethrin | ISO/IEC 17025 | ISO/IEC 17025 | MCERTS | MCERTS | ISO/IEC 17025 |
| Total Permethrin (sum of cis and trans) | ISO/IEC 17025 | ISO/IEC 17025 | MCERTS | MCERTS | ISO/IEC 17025 |
| Phorate | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| Phosalone | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| Pirimicarb | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| Pirimiphos Methyl | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| pp'-DDE | ISO/IEC 17025 | ISO/IEC 17025 | MCERTS | MCERTS | ISO/IEC 17025 |
| pp'-DDT | ISO/IEC 17025 | ISO/IEC 17025 | MCERTS | MCERTS | ISO/IEC 17025 |
| pp'-TDE | ISO/IEC 17025 | ISO/IEC 17025 | MCERTS | MCERTS | ISO/IEC 17025 |
| Prometryn | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| Propachlor | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| Propazine | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| Propetamphos | ISO/IEC 17025 | ISO/IEC 17025 | MCERTS | MCERTS | ISO/IEC 17025 |
| Propyzamide | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| Simazine | ISO/IEC 17025 | ISO/IEC 17025 | MCERTS | MCERTS | ISO/IEC 17025 |
| Tecnazene | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |



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Pesticides

Sequential Liquid/liquid and Solid Phase Extraction, GC-MSMS
Documented In-House Method

GEO 47

Where quoted MCERTS performance standard - chemical testing of WATERS

| Analyte | Surface Water | Ground Water | Treated Sewage | Trade to Sewer | Land Leachate |
|-----------------|---------------|---------------|----------------|----------------|---------------|
| Terbutryn | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| trans-Chlordane | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| Triademefon | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| Triallate | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| Triazophos | ISO/IEC 17025 | ISO/IEC 17025 | MCERTS | MCERTS | ISO/IEC 17025 |
| Trietazine | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| Trifluralin | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |

Phenols and Chlorophenols

Solid Phase Extraction, GC-MS
Documented In-House Method

GEO 18

Where quoted MCERTS performance standard - chemical testing of WATERS

| Analyte | Surface Water | Ground Water | Treated Sewage | Untreated Sewage | Trade to Sewer | Trade to Controlled | Land Leachate | Prepared Leachate |
|-----------------------------|---------------|---------------|----------------|------------------|----------------|---------------------|---------------|-------------------|
| Phenol (high and low level) | ISO/IEC 17025 | ISO/IEC 17025 | MCERTS | ISO/IEC 17025 | MCERTS | MCERTS | ISO/IEC 17025 | ISO/IEC 17025 |
| 2-chlorophenol | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| 4-chlorophenol | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| | | | | | | | | |
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Phenols and Chlorophenols

Solid Phase Extraction, GC-MS
Documented In-House Method

GEO 18

Where quoted MCERTS performance standard - chemical testing of WATERS

| Analyte | Surface Water | Ground Water | Treated Sewage | Untreated Sewage | Trade to Sewer | Trade to Controlled | Land Leachate | Prepared Leachate |
|---------|---------------|--------------|----------------|------------------|----------------|---------------------|---------------|-------------------|
| | | | | | | | | |

Phenoxyalkanoic Herbicides and Phenolic Compounds

Solid Phase Extraction, GC-MSMS
Documented In-House Method

GEO 73

Where quoted MCERTS performance standard - chemical testing of WATERS

| Analyte | Surface Water | Treated Sewage | Trade to Sewer |
|-------------------------|---------------|----------------|----------------|
| 2,4,6-Trichlorophenol | ISO/IEC 17025 | MCERTS | MCERTS |
| 2,4-D | ISO/IEC 17025 | MCERTS | MCERTS |
| 2,4-DB | ISO/IEC 17025 | MCERTS | MCERTS |
| 2,4-DP (Dichlorprop) | ISO/IEC 17025 | MCERTS | MCERTS |
| 2,4-Dichlorophenol | ISO/IEC 17025 | MCERTS | MCERTS |
| 4-Chloro-2-Methylphenol | ISO/IEC 17025 | MCERTS | MCERTS |
| 4-n-Nonyl Phenol | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| MCPA | ISO/IEC 17025 | MCERTS | MCERTS |
| MCPB | ISO/IEC 17025 | MCERTS | MCERTS |
| MCPP (Mecoprop) | ISO/IEC 17025 | MCERTS | MCERTS |
| Pentachlorophenol | ISO/IEC 17025 | MCERTS | MCERTS |

Phosphate Esters

Liquid/liquid Extraction, GC-MSMS
Documented In-House Method

Method 326

Where quoted MCERTS performance standard - chemical testing of WATERS

| Analyte | Treated Sewage |
|--------------------------------------|----------------|
| tris(2-chloroethyl)phosphate (TCEP) | MCERTS |
| tris(2-chloropropyl)phosphate (TCPP) | MCERTS |



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Poly and Perfluorinated Alkyl Substances (PFAS)

SPE Extraction, HRAM LC-MS
Documented In-House Method
GEO 88

| Analyte | Surface Water | Ground Water |
|-------------------------------|---------------|---------------|
| PFBA (375-22-4) | ISO/IEC 17025 | ISO/IEC 17025 |
| PFPeA (2706-90-3) | ISO/IEC 17025 | ISO/IEC 17025 |
| PFHxA (307-24-4) | ISO/IEC 17025 | ISO/IEC 17025 |
| PFHpA (375-85-9) | ISO/IEC 17025 | ISO/IEC 17025 |
| PFOA (335-67-1) | ISO/IEC 17025 | ISO/IEC 17025 |
| PFNA (375-95-1) | ISO/IEC 17025 | ISO/IEC 17025 |
| PFDA (335-76-2) | ISO/IEC 17025 | ISO/IEC 17025 |
| PFUnA; PFUDa (2058-94-8) | ISO/IEC 17025 | ISO/IEC 17025 |
| PFDoA (307-55-1) | ISO/IEC 17025 | ISO/IEC 17025 |
| PFTTrDA; PFTTriA (72629-94-8) | ISO/IEC 17025 | ISO/IEC 17025 |
| PFTeA (376-06-7) | ISO/IEC 17025 | ISO/IEC 17025 |
| PFHxDA (67905-19-5) | ISO/IEC 17025 | ISO/IEC 17025 |
| PFODA (16517-11-6) | ISO/IEC 17025 | ISO/IEC 17025 |
| PFBS (375-73-5) | ISO/IEC 17025 | ISO/IEC 17025 |
| PFPeS (2706-91-4) | ISO/IEC 17025 | ISO/IEC 17025 |
| PFHxS (355-46-4) | ISO/IEC 17025 | ISO/IEC 17025 |
| PFHpS (375-92-8) | ISO/IEC 17025 | ISO/IEC 17025 |
| PFOS (1763-23-1) | ISO/IEC 17025 | ISO/IEC 17025 |
| PFNS (68259-12-1) | ISO/IEC 17025 | ISO/IEC 17025 |
| PFDS (335-77-3) | ISO/IEC 17025 | ISO/IEC 17025 |
| PFUnDS (749786-16-1) | ISO/IEC 17025 | ISO/IEC 17025 |
| PFDoS (79780-39-5) | ISO/IEC 17025 | ISO/IEC 17025 |
| HFPO-DA (Gen X) (13252-13-6) | ISO/IEC 17025 | ISO/IEC 17025 |
| HFPO-TA (13252-14-7) | ISO/IEC 17025 | ISO/IEC 17025 |
| DONA; ADONA (919005-14-4) | ISO/IEC 17025 | ISO/IEC 17025 |
| PFMOPrA (377-73-1) | ISO/IEC 17025 | ISO/IEC 17025 |
| NFDHA (151772-58-6) | ISO/IEC 17025 | ISO/IEC 17025 |
| PFMOBA (863090-89-5) | ISO/IEC 17025 | ISO/IEC 17025 |



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ALS Laboratories (UK) Limited
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Testing performed by the Organisation at the locations specified

Poly and Perfluorinated Alkyl Substances (PFAS)

SPE Extraction, HRAM LC-MS
Documented In-House Method
GEO 88

| Analyte | Surface Water | Ground Water |
|--|---------------|---------------|
| PFecHS (133201-07-7) | ISO/IEC 17025 | ISO/IEC 17025 |
| 3:3 FTCA (356-02-5) | ISO/IEC 17025 | ISO/IEC 17025 |
| 5:3 FTCA (914637-49-3) | ISO/IEC 17025 | ISO/IEC 17025 |
| 7:3 FTCA (812-70-4) | ISO/IEC 17025 | ISO/IEC 17025 |
| PFEESA (113507-82-7) | ISO/IEC 17025 | ISO/IEC 17025 |
| 6:2 CI-PFESA; 9CI-PF3ONS (756426-58-1) | ISO/IEC 17025 | ISO/IEC 17025 |
| 8:2 CI-PFESA; 11CI-PF3OUdS (763051-92-9) | ISO/IEC 17025 | ISO/IEC 17025 |
| 4:2 FTSA; 4:2 FTS (757124-72-4) | ISO/IEC 17025 | ISO/IEC 17025 |
| 6:2 FTSA; 6:2 FTS (27619-97-2) | ISO/IEC 17025 | ISO/IEC 17025 |
| 8:2 FTSA; 8:2 FTS (39108-34-4) | ISO/IEC 17025 | ISO/IEC 17025 |
| FBSA (30334-69-1) | ISO/IEC 17025 | ISO/IEC 17025 |
| FHxSA (41997-13-1) | ISO/IEC 17025 | ISO/IEC 17025 |
| FOSA (754-91-6) | ISO/IEC 17025 | ISO/IEC 17025 |
| MeFOSA; N-MeFOSA (31506-32-8) | ISO/IEC 17025 | ISO/IEC 17025 |
| EtFOSA; N-EtFOSA (4151-50-2) | ISO/IEC 17025 | ISO/IEC 17025 |
| MeFOSE (24448-09-7) | ISO/IEC 17025 | ISO/IEC 17025 |
| EtFOSE (1691-99-2) | ISO/IEC 17025 | ISO/IEC 17025 |
| NMeFOSAA; MeFOSAA (2355-31-9) | ISO/IEC 17025 | ISO/IEC 17025 |
| NEtFOSAA; EtFOSAA (2991-50-6) | ISO/IEC 17025 | ISO/IEC 17025 |
| 6:2 FTAB (34455-29-3) | ISO/IEC 17025 | ISO/IEC 17025 |

Polynuclear Aromatic Hydrocarbons (PAHs)

Automated dispersive Liquid/Liquid extraction, GC-MS
Documented In-House Method Based Upon
(ISBN: 0117520322, 1986)

GEO 81

| Analyte | Surface Water | Ground Water | Treated Sewage | Untreated Sewage | Trade to Sewer | Land Leachate |
|----------------|---------------|---------------|----------------|------------------|----------------|---------------|
| Naphthalene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Acenaphthylene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |



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Polynuclear Aromatic Hydrocarbons (PAHs)
Automated dispersive Liquid/Liquid extraction, GC-MS
Documented In-House Method Based Upon
(ISBN: 0117520322, 1986)
GEO 81

| Analyte | Surface Water | Ground Water | Treated Sewage | Untreated Sewage | Trade to Sewer | Land Leachate |
|----------------------|---------------|---------------|----------------|------------------|----------------|---------------|
| Acenaphthene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Fluorene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Phenanthrene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Anthracene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Fluoranthene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Pyrene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Benzo(a)Anthracene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Chrysene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Benzo(b)Fluoranthene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Benzo(a)Pyrene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Dibenz(ah)anthracene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Indeno(123-cd)Pyrene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Benzo(ghi)Perylene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Benzo(k)Fluoranthene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |

Pyridine
Liquid/liquid Extraction, GC-MS
Documented In-House Method
GEO 62

Where quoted MCERTS performance standard - chemical testing of WATERS

| Treated Sewage | Untreated Sewage | Trade to Sewer |
|----------------|------------------|----------------|
| MCERTS | MCERTS | MCERTS |



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Solvents
Headspace GC-MS
Documented In-House Method
GEO 96

| Analyte | Treated Sewage | Untreated Sewage | Trade to Sewer |
|-------------|----------------|------------------|----------------|
| Propan-2-ol | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Acetone | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |

Semi Volatile Organic Compounds (SVOCs)
Automated Dispersive Liquid/liquid and GC-MS
Documented In-House Method
GEO 94

| Analyte | Surface Water | Ground Water | Treated Sewage | Trade Effluent | Land Leachate |
|----------------------------|---------------|---------------|----------------|----------------|---------------|
| Phenol | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Bis(2-chloroethyl)ether | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| 2-Chlorophenol | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| 1,3-Dichlorobenzene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| 1,4-Dichlorobenzene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| 1,2-Dichlorobenzene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| 2-Methylphenol | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Bis(chloroisopropyl)ether | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| 3&4-Methylphenol | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| n-Nitroso-di-n-propylamine | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Hexachloroethane | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Nitrobenzene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None |
| Isophorone | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| 2-Nitrophenol | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| 2,4-Dimethylphenol | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Bis(2-chloroethoxy)methane | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| 3,5-Dimethylphenol | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| 2,4-Dichlorophenol | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| 1,2,4-Trichlorobenzene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Naphthalene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |



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Testing performed by the Organisation at the locations specified

Semi Volatile Organic Compounds (SVOCs)
Automated Dispersive Liquid/Liquid and GC-MS
Documented In-House Method
GEO 94

| Analyte | Surface Water | Ground Water | Treated Sewage | Trade Effluent | Land Leachate |
|-----------------------------|---------------|---------------|----------------|----------------|---------------|
| 4-Chlorophenol | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| 2,6-Dichlorophenol | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Hexachlorobutadiene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| 4-Chloro-3-methylphenol | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| 2-Methylnaphthalene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| 2,4,6-Trichlorophenol | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| 2,4,5-Trichlorophenol | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| 2-Chloronaphthalene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Dimethylphthalate | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| 2,6-Dinitrotoluene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Acenaphthylene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Acenaphthene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| 4-Nitrophenol | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Dibenzofuran | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| 2,4-Dinitrotoluene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Diethylphthalate | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Fluorene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| 4-Chlorophenyl phenyl ether | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| 4-Bromophenyl phenyl ether | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Hexachlorobenzene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Pentachlorophenol | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Phenanthrene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Anthracene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Carbazole | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Di-n-butylphthalate | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Fluoranthene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Pyrene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Benzyl butyl phthalate | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |



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Testing performed by the Organisation at the locations specified

Semi Volatile Organic Compounds (SVOCs)
Automated Dispersive Liquid/Liquid and GC-MS
Documented In-House Method
GEO 94

| Analyte | Surface Water | Ground Water | Treated Sewage | Trade Effluent | Land Leachate |
|----------------------------|---------------|---------------|----------------|----------------|---------------|
| Benz(a)anthracene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Chrysene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Bis(2-ethylhexyl)phthalate | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Di-n-octyl phthalate | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Benzo(b)fluoranthene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Benzo(k)fluoranthene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Benzo(a)pyrene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Indeno(1,2,3-cd)Pyrene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Dibenzo(ah)anthracene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Benzo(ghi)perylene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |

Substituted Urea Herbicides
Online SPE, HRAM LC-MS
Documented In-House Method
GEO 37

| Analyte | Surface Water | Ground Water | Trade to Sewer | Land Leachate |
|--------------------|---------------|---------------|----------------|---------------|
| Atrazine | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Chlortoluron | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Diuron | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Isoproturon | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Linuron | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Methabenzthiazuron | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Monolinuron | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Monuron | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Propyzamide | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Simazine | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |



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Testing performed by the Organisation at the locations specified

Trace Level Pesticides
Liquid/liquid Extraction, GC-MSMS with NCI
Documented In-House Method
GEO 79

| Analyte | Surface Water | Ground Water | Saline Water |
|----------------------|---------------|---------------|---------------|
| Bifenox | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Cypermethrin | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Endosulphan (Total) | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| alpha-Endosulphan | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| beta-Endosulphan | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Endosulphan Sulphate | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |

Trace Level Pesticides and Selected Non-Polar Organic Compounds
Liquid/liquid Extraction, GC-MSMS EI
Documented In-House Method
GEO 78

Where quoted MCERTS performance standard - chemical testing of WATERS

| Analyte | Surface Water | Ground Water | Saline Water | Treated Sewage |
|---|---------------|---------------|---------------|----------------|
| Aclonifen | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None |
| Alachlor | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None |
| <i>Cyclodiene Pesticides (WFD sum of 4)</i> | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None |
| Aldrin | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None |
| Dieldrin | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None |
| Endrin | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None |
| Isodrin | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None |
| Anthracene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None |
| Benzo(a)Pyrene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None |
| Benzo(b)Fluoranthene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None |
| Benzo(k)Fluoranthene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None |
| Indeno(1,2,3-cd)-pyrene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None |
| Benzo(ghi)perylene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None |
| Cybutryne | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None |
| <i>DDT - Total WFD</i> | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None |
| pp-DDE | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None |



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Trace Level Pesticides and Selected Non-Polar Organic Compounds

Liquid/Liquid Extraction, GC-MSMS EI

Documented In-House Method

GEO 78

Where quoted MCERTS performance standard - chemical testing of WATERS

| Analyte | Surface Water | Ground Water | Saline Water | Treated Sewage |
|--|---------------|---------------|---------------|----------------|
| pp-DDD (TDE) | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None |
| op-DDT | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None |
| pp-DDT | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None |
| Diflufenican | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None |
| Fluoranthene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None |
| <i>Sum Heptachlor & Heptachlor epoxide (cis & trans)</i> | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None |
| Heptachlor | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None |
| cis-Heptachlor Epoxide | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None |
| trans-Heptachlor Epoxide | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None |
| Hexachlorobenzene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None |
| Hexachlorobutadiene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None |
| <i>Hexachlorocyclohexane – Total WFD</i> | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None |
| alpha-HCH | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None |
| beta-HCH | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None |
| gamma-HCH | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None |
| delta-HCH | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None |
| epsilon-HCH | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None |
| Quinoxifen | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None |
| Chlorfenvinphos | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None |
| Chlorpyrifos | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None |
| Pentachlorobenzene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None |
| <i>PBDEs – Total WFD</i> | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None |
| BDE 28 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None |
| BDE 47 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None |
| BDE 99 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None |
| BDE 100 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None |
| BDE 153 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None |



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Trace Level Pesticides and Selected Non-Polar Organic Compounds

Liquid/Liquid Extraction, GC-MSMS EI

Documented In-House Method

GEO 78

Where quoted MCERTS performance standard - chemical testing of WATERS

| Analyte | Surface Water | Ground Water | Saline Water | Treated Sewage |
|-------------------------------------|---------------|---------------|---------------|----------------|
| BDE 154 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None |
| Terbutryn | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None |
| TBT | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | MCERTS |
| Trifluralin | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None |
| <i>Trichlorobenzene – Total WFD</i> | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None |
| 1,3,5-Trichlorobenzene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None |
| 1,2,4-Trichlorobenzene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None |
| 1,2,3-Trichlorobenzene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | None |

Volatile Fatty Acids

GC-FID

Documented In-House Analysis Based Upon

(ISBN 0117514624, 1979)

CON 17

| Surface Water | Ground Water | Treated Sewage | Untreated Sewage | Trade to Sewer | Land Leachate | Prepared Leachate | Sludge |
|---------------|---------------|----------------|------------------|----------------|---------------|-------------------|---------------|
| ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |

Volatile Organic Compounds (VOC)

Headspace GC-MS

Documented In-House Method

GEO 76

| Analyte | Surface Water | Ground Water | Treated Sewage | Trade to Sewer | Land Leachate |
|---------------------------|---------------|---------------|----------------|----------------|---------------|
| 1,1,1,2-Tetrachloroethane | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| 1,1,1-Trichloroethane | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| 1,1,2,2-Tetrachloroethane | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| 1,1,2-Trichloroethane | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| 1,1-Dichloroethane | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| 1,1-Dichloroethene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| 1,1-Dichloropropene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |



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Volatile Organic Compounds (VOC)
Headspace GC-MS
Documented In-House Method
GEO 76

| Analyte | Surface Water | Ground Water | Treated Sewage | Trade to Sewer | Land Leachate |
|-----------------------------|---------------|---------------|----------------|----------------|---------------|
| 1,2,3-Trichlorobenzene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| 1,2,3-Trichloropropane | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| 1,2,4-Trichlorobenzene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| 1,2,4-Trimethylbenzene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| 1,2-Dibromo-3-chloropropane | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| 1,2-Dibromoethane | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| 1,2-Dichlorobenzene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| 1,2-Dichloroethane | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| 1,2-Dichloropropane | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| 1,3,5-Trimethylbenzene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| 1,3-Dichlorobenzene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| 1,3-Dichloropropane | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| 1,4-Dichlorobenzene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| 2,2-Dichloropropane | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| 2-Chlorotoluene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| 4-Chlorotoluene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Benzene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Bromobenzene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Bromochloromethane | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Bromodichloromethane | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Bromoform | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Bromomethane | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Carbon Tetrachloride | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Chlorobenzene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Chloroethane | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Chloroform | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Chloromethane | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| cis-1,2-Dichloroethene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |



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Volatile Organic Compounds (VOC)
Headspace GC-MS
Documented In-House Method
GEO 76

| Analyte | Surface Water | Ground Water | Treated Sewage | Trade to Sewer | Land Leachate |
|---------------------------|---------------|---------------|----------------|----------------|---------------|
| cis-1,3-Dichloropropene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Dibromochloromethane | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Dibromomethane | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Dichloromethane | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Ethylbenzene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Hexachlorobutadiene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Isopropylbenzene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| m,p-Xylene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| MTBE | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Naphthalene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| n-Butylbenzene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| n-Propylbenzene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| o-Xylene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| p-Isopropyltoluene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| sec-Butylbenzene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Styrene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| tert-Butylbenzene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Tetrachloroethene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Toluene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| trans-1,2-Dichloroethene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| trans-1,3-Dichloropropene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Trichloroethene | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Trichlorofluoromethane | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Vinyl Chloride | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |



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Volatile Petroleum Hydrocarbons (VPH) C5-C10

Headspace Extraction, GC-FID and GC-MS-FID
Documented In-House Method

GEO 45

| Analyte | Surface Water | Ground Water | Treated Sewage | Land Leachate | Prepared Leachate |
|---|---------------|---------------|----------------|---------------|-------------------|
| Total VPH C5-C10 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Aromatic/aliphatic fractionation and quantification according to carbon banding, typically: | | | | | |
| >C5-C7 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| >C6-C8 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| >C8-C10 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |

Benzotriazole & Tolytriazole

Online SPE and LC-MSMS
Documented In-House Method

GEO 95

| Analyte | Surface Water | Process Water (Clean) | Treated Sewage | Untreated Sewage | Drinking Water (non-regulatory) |
|---------------|---------------|-----------------------|----------------|------------------|---------------------------------|
| Benzotriazole | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Tolytriazole | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |



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Testing performed by the Organisation at the locations specified

MICROBIOLOGY & CRYPTOSPORIDIUM TESTS - COVENTRY LABORATORY

Algae

Microscopic Examination
Documented In-House Method Based Upon
(ISBN: 0117523070, 1990)

W44

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| Drinking Water | Surface Water | Process Water |
|----------------|---------------|---------------|
| DWTS | DWTS | ISO/IEC 17025 |

Chlorophyll

Methanol Extraction and Spectrophotometric Analysis
Documented In-House Method Based Upon
(ISBN: 011 7516740 1980)

W45

| Analyte | Surface Water |
|-------------|---------------|
| Chlorophyll | ISO/IEC 17025 |

Clostridia

Isolation and Enumeration by Membrane Filtration followed by traditional or MALDI-TOF confirmation
Documented In-House Method Based Upon
The Microbiology of Drinking Water (2021) - Part 6 - Methods for the isolation and enumeration of sulphite-reducing clostridia and Clostridium perfringens by membrane filtration.

W8

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| Analyte | Drinking Water | Surface Water | Ground Water | Process Water |
|--|----------------|---------------|--------------|---------------|
| Sulphite-reducing Clostridia (presumptive and confirmed) | DWTS | DWTS | DWTS | ISO/IEC 17025 |
| Clostridium perfringens (presumptive and confirmed) | DWTS | DWTS | DWTS | ISO/IEC 17025 |



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Testing performed by the Organisation at the locations specified

Cryptosporidium

FiltaMax® and FiltaMax Xpress®, Immuno fluorescent staining for identification by microscopy
Documented In-House Method Based Upon
The Microbiology of Drinking Water (2010) Part 14 – Methods for the Isolation, Identification and Enumeration of
Cryptosporidium oocysts and Giardia cysts.

CRYM1, CRYM2, & CRYM3

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| Drinking Water | Surface Water | Ground Water |
|----------------|---------------|--------------|
| DWTS | DWTS | DWTS |

E. coli (per g dry weight)

Isolation and Enumeration by Membrane Filtration
Documented In-House Method Based Upon
The Microbiology of Sewage Sludge (2003) - Part 3 - Methods for the isolation and enumeration of Escherichia coli,
including verocytotoxigenic Escherichia coli.

W24

| Soil | Sludge | Sediment |
|---------------|---------------|---------------|
| ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |

E coli (per g dry weight MPN)

Isolation and Enumeration by Defined Substrate Most Probable Number Technique (Colilert)
Documented In-House Method Based Upon
The Microbiology of Sewage Sludge (2003) - Part 3 - Methods for the isolation and enumeration of Escherichia coli,
including verocytotoxigenic Escherichia coli.

W25

| |
|---------------|
| Sewage Sludge |
| ISO/IEC 17025 |

Enterococci (presumptive and confirmed)

Isolation and Enumeration by Membrane Filtration followed by traditional or MALDI-TOF confirmation
Documented In-House Method Based Upon
The Microbiology of Drinking Water (2012) - Part 5 - Methods for the isolation and enumeration of enterococci.
The Microbiology of Recreational and Environmental Waters (2015) – Part 4 – Methods for the isolation and
enumeration of enterococci.

W7

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| Drinking Water | Surface Water | Ground Water | Process Water | Recreational Water |
|----------------|---------------|--------------|---------------|--------------------|
| DWTS | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |



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Testing performed by the Organisation at the locations specified

Enterococci (presumptive and confirmed)

Isolation and Enumeration by Membrane Filtration followed by traditional (membrane transfer to KAAA) or MALDI-TOF confirmation

Documented In-House Method Based Upon

The Microbiology of Drinking Water (2012) - Part 5 - Methods for the isolation and enumeration of enterococci.

The Microbiology of Recreational and Environmental Waters (2015) – Part 4 – Methods for the isolation and enumeration of enterococci.

W58

| Surface Water | Treated Sewage Effluent | Sea Water | Recreational Water (natural) |
|---------------|-------------------------|---------------|------------------------------|
| ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |

Heterotrophic Plate Count

Isolation and Enumeration by Pour Plate Method

Documented In-House Method Based Upon

The Microbiology of Drinking Water (2020) - Part 7 – Methods for the enumeration of heterotrophic bacteria.

W1

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| Analyte | Drinking Water | Surface Water | Ground Water | Process Water | Recreational Water |
|---------------|----------------|---------------|--------------|---------------|--------------------|
| Count at 22°C | DWTS | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |
| Count at 37°C | DWTS | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |
| Count at 30°C | DWTS | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |

Legionella

Isolation and Enumeration by Membrane Filtration or centrifugation followed by elution. Traditional or MALDI-TOF confirmation incorporating serology. Matrix A+B procedure 8,9 & 10 Media C Documented In-House Method Based Upon
BS EN ISO 11731:2017

W5

| Analyte | Drinking Water | Process Water | Recreational Water |
|---|----------------|---------------|--------------------|
| <i>Legionella</i> spp | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| <i>Legionella pneumophila</i> serogroup 1 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| <i>Legionella pneumophila</i> serogroups 2-15 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |



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Pseudomonas aeruginosa (presumptive and confirmed)

Isolation and Enumeration by Membrane Filtration followed by traditional or MALDI-TOF confirmation
Documented In-House Method Based Upon
The Microbiology of Drinking Water (2015) - Part 8 - Methods for the isolation and enumeration of Aeromonas and Pseudomonas aeruginosa by membrane filtration.
Health Technical Memorandum 04-01: Safe water in healthcare premises - Part C: Pseudomonas aeruginosa – advice for augmented care units (2016).

W11

| Drinking Water | Surface Water | Ground Water | Process Water (including High Purity & DI Waters used for endoscope rinsing) | Recreational Water |
|----------------|---------------|---------------|---|--------------------|
| ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |

Pseudomonas spp (presumptive and confirmed)

Isolation and Enumeration by Membrane Filtration followed by traditional confirmation
Documented In-House Method

W9

| Drinking Water | Surface Water | Ground Water | Process Water |
|----------------|---------------|---------------|---------------|
| ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |

Salmonella spp (detection and confirmed)

Isolation and Enumeration by Membrane Filtration followed by traditional or MALDI-TOF confirmation
Documented In-House Method Based Upon
The Microbiology of Drinking Water (2006) Part 9 - Methods for the isolation and enumeration of Salmonella and Shigella by selective enrichment, membrane filtration and multiple tube most probable number techniques.
The Microbiology of Sewage Sludge (2004) - Part 4 -Methods for the detection, isolation and enumeration of Salmonellae.

W2

| Drinking Water | Surface Water | Ground Water | Soil (per g dry weight) | Sludge (per g dry weight) |
|----------------|---------------|---------------|----------------------------|------------------------------|
| ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |

Taste and Odour

Assessed Panel

Documented In House Method Based Upon

SCA Blue Book: -The Determination of Taste and Odour in drinking Water 2014. Methods for the examination of waters and Associated Materials.

W56

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| Analyte | Drinking Water | Raw Water |
|--------------------|----------------|-----------|
| Quantitative Taste | DWTS | NONE |



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Taste and Odour

Assessed Panel

Documented In House Method Based Upon

SCA Blue Book: -The Determination of Taste and Odour in drinking Water 2014. Methods for the examination of waters and Associated Materials.

W56

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| Analyte | Drinking Water | Raw Water |
|--------------------|----------------|-----------|
| Quantitative Odour | DWTS | DWTS |

Coliforms and E.coli (presumptive and confirmed)

Isolation and Enumeration by Membrane Filtration followed by traditional or MALDI-TOF confirmation

Documented In-House Method Based Upon

The Microbiology of Drinking Water (2016) - Part 4 - Methods for the isolation and enumeration of coliform bacteria and Escherichia coli (including E. coli O157:H7).

W10

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| Analyte | Drinking Water | Surface Water | Ground Water | Process Water | Recreational Water |
|------------------|----------------|---------------|--------------|---------------|--------------------|
| Total Coliforms | DWTS | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |
| Escherichia coli | DWTS | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |

Total Coliforms, Faecal Coliforms and E.coli (presumptive and confirmed)

Isolation and Enumeration by Membrane Filtration followed by traditional or MALDI-TOF confirmation (as required)

Documented In-House Method Based Upon

The Microbiology of Recreational and Environmental Waters (2016) – Part 3 – Methods for the isolation and enumeration of Escherichia coli (including E. coli O157:H7).

W57

| Analyte | Surface Water | Treated Sewage Effluent | Sea Water | Recreational Water (natural) |
|------------------|---------------|-------------------------|---------------|------------------------------|
| Total Coliforms | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Faecal Coliforms | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| Escherichia coli | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |



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Total Aerobic Micro-organisms

Isolation and Enumeration by pour plate and/or membrane filtration using R2A agar.
Documented In-House Method Based Upon
Health Technical Memorandum 01-06: Decontamination of flexible endoscopes Part E (2016).
BS EN ISO11663:2015 - Quality of dialysis fluid for haemodialysis and related therapies.

W38

| | |
|--------------------------|--|
| Analyte | Process Water (High Purity & DI Waters used for dialysis & endoscope rinsing) |
| Count at 22°C for 7 days | ISO/IEC 17025 |
| Count at 30°C for 5 days | ISO/IEC 17025 |

Zooplankton (including veligers)

Macroscopic Examination
Documented In-House Method Based Upon
(ISBN: 0-87553-161-X, 1989)

W46

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| | | |
|----------------|---------------|---------------|
| Drinking Water | Surface Water | Process Water |
| DWTS | DWTS | ISO/IEC 17025 |



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SECTION 2

DETAIL OF ACCREDITATION at the WAKEFIELD LABORATORY

Wakefield Tests – Inorganics

| | | | |
|---|---|---|---|
| Alkalinity | pH and Conductivity | Turbidity | Colour |
| Fluoride | Suspended Solids | Total Dissolved Solids | Chlorate, Chlorite and Bromide |
| Bromate | Total and Free Cyanide | Nutrients | Total Organic Carbon (TOC) and Dissolved Organic Carbon (DOC) |
| Suspended Solids & Ashed Solids | Total Solids & Total Ash Solids | Biochemical Oxygen Demand | Chemical Oxygen Demand |
| Petroleum Ether Extractable Matter | Kjeldahl Nitrogen | Permanganate Index | |

Wakefield Tests – Metals

| | | | |
|---|--|--------------------------|---|
| Dissolved (Filtered) and Total Metals | Dissolved (Filtered) and Total Mercury | Antimony | Extractable Potassium and Magnesium |
| Sodium Bicarbonate Extractable Phosphorus | Metals | | |

Wakefield Tests – Organics

| | | | |
|--|--|--|--|
| Trihalomethanes, Halogenated Solvents, MTBE, TAME and BTEX Compounds | Polycyclic Aromatic Hydrocarbons | Polar Herbicides (Benzonitrile, Phenoxyalkanoic Herbicides and Other Compounds) | Organochlorine Pesticides and Selected Non-Polar Organic Compounds |
| Chlormequat, Diquat & Mepiquat | Glyphosate and Aminomethylphosphonic Acid (AMPA) | Metaldehyde | Microcystin – LR |
| Haloacetic Acids and Dalapon | Taste & Odour Compounds | Carbamate, Conazole, Organophosphorus, Phenyl Urea, Triazine and Neutral Compounds | Phenols and Chlorophenols |
| Acrylamide | Vinyl Chloride | Clormequat, Diquat and Mepiquat | Poly and Perfluorinated Substances (PFAS) |



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Wakefield Tests – [Microbiology](#)

| | | | |
|---|---|---|--|
| Total Aerobic Micro-organisms | Coliforms, and Escherichia coli | Clostridium perfringens | Taste & Odour |
| Enterococci | Pseudomonas aeruginosa | Pseudomonas spp | Legionella (Confirmation only) |

Wakefield Tests – [Radiochemistry](#)

| | | | |
|--|--|--|--|
| Gross Alpha and Beta Radioactivity | | | |
|--|--|--|--|



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INORGANICS TESTS - WAKEFIELD LABORATORY

Alkalinity (to pH4.5)

Manual Titration

Documented in house Method Based Upon
(ISBN: 0117516015, 1981)

WWC 9

Where quoted MCERTS performance standard - chemical testing of WATERS

| Treated Sewage | Untreated Sewage | Trade to Sewer | Trade to Controlled |
|----------------|------------------|----------------|---------------------|
| MCERTS | MCERTS | MCERTS | MCERTS |

Alkalinity

Manual Titration

Documented In house Method Based Upon
(ISBN: 0117516015, 1981)

WSC 1

Sludge

ISO/IEC 17025

pH and Conductivity

Using Manual Probe System

Documented In House Method Based Upon
(ISBN: 0117514284, 1978)

WWC 14

Where quoted MCERTS performance standard - chemical testing of WATERS

| Analyte | Treated Sewage | Untreated Sewage | Trade to Sewer | Trade to Controlled |
|---------------------|----------------|------------------|----------------|---------------------|
| pH | MCERTS | MCERTS | MCERTS | MCERTS |
| Conductivity (20°C) | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |

pH

Using Manual Meter

Documented In House Method Based Upon
(ISBN 0117520845, 1988)

WPC 8

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| Potable Water | Raw Water |
|---------------|-----------|
| | |



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pH

Using Manual Meter
Documented In House Method Based Upon
(ISBN 0117520845, 1988)

WPC 8

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| | |
|------|------|
| DWTS | DWTS |
|------|------|

pH

Ion Selective Electrode
Documented In house Method Based Upon
(ISBN: 0117512524, 1977)

WSC 11

| | |
|---------------|---------------|
| Soil | Sludge |
| ISO/IEC 17025 | ISO/IEC 17025 |

Conductivity

Manual Meter
Documented In House Method Based Upon
(ISBN: 0117514284, 1978)

WPC 7

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| | | | |
|---------------|-----------|---------------|---|
| Potable Water | Raw Water | Bottled Water | Process Water (High Purity & DI Water) |
| DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |

Turbidity

Manual Meter
Documented in House Method Based Upon
(ISBN: 117519553, 1981)

WPC 6

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| | | | |
|---------------|-----------|---------------|---|
| Potable Water | Raw Water | Bottled Water | Process Water (High Purity & DI Water) |
| DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |



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Colour

UV - Visible Spectrophotometer
Documented in House Method Based Upon
(ISBN: 117519553, 1981)

WPC 13

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| | | | |
|---------------|-----------|---------------|---|
| Potable Water | Raw Water | Bottled Water | Process Water (High Purity & DI Water) |
| DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |

Fluoride

Ion Selective Electrode
Documented in House Method Based Upon
(ISBN: 0117516627, 1982)

WPC 20

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| | | | |
|---------------|-----------|---------------|---|
| Potable Water | Raw Water | Bottled Water | Process Water (High Purity & DI Water) |
| DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |

Fluoride

Ion Selective Electrode
Documented in House Method Based Upon
(ISBN: 0117516627, 1982)

WSC 18

| | |
|---------------|---------------|
| Soil | Sludge |
| ISO/IEC 17025 | ISO/IEC 17025 |

Suspended Solids (105°C)

Gravimetry
Documented in House Method Based Upon
(ISBN 011751957X, 1980)

WPC 22

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| | |
|---------------|-----------|
| Potable Water | Raw Water |
| DWTS | DWTS |



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Total Dissolved Solids (180°C)

Gravimetry
Documented in House Method Based Upon
(ISBN: 011751957X, 1980)

WPC 25

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| Potable Water | Raw Water | Bottled Water | Process Water (High Purity & DI Water) |
|---------------|-----------|---------------|---|
| DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |

Chlorate, Chlorite and Bromide

Ion Chromatography (Dionex)
Documented in House Method

WPC 18

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| Analyte | Potable Water | Raw Water |
|----------|---------------|-----------|
| Bromide | DWTS | DWTS |
| Chlorate | DWTS | DWTS |
| Chlorite | DWTS | DWTS |

Chlorate, Chlorite and Bromide

Ion Chromatography (Metrohm)
Documented in House Method

WPC 61

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| Analyte | Potable Water | Raw Water |
|----------|---------------|-----------|
| Bromide | DWTS | DWTS |
| Chlorate | DWTS | DWTS |
| Chlorite | DWTS | DWTS |

Bromate

Ion Chromatography with the Addition of Post Column Reagent (Dionex)
Documented in House Method

WPC 42

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| Potable Water | Raw Water | Bottled Water | Process Water (High Purity & DI Water) |
|---------------|-----------|---------------|---|
| DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |



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Bromate
Ion Chromatography with the Addition of Post Column Reagent (Metrohm)
Documented IN House Method

WPC 54

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| Potable Water | Raw Water | Bottled Water | Process Water (High Purity & DI Water) |
|---------------|-----------|---------------|---|
| DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |

Total and Free Cyanide
Continuous Flow Autoanalyzer
Documented in House Method Based Upon
(ISBN: 0875532233, 1995)

WPC 65

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| Analyte | Potable Water | Raw Water | Bottled Water | Process Water (High Purity & DI Water) |
|---------------|---------------|-----------|---------------|---|
| Free Cyanide | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |
| Total Cyanide | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |

Nutrients

Discrete Analysis (Aquakem)
Documented in House Method Based Upon
(ISBN 0117516260, 1981; 0117515930, 1981; 0117516139, 1981; 0117515930, 1981; 0117516015, 1981;
0117515930, 1981; 0117515825, 1980)

WPC 64

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| Analyte | Potable Water | Raw Water | Bottled Water | Process Water (High Purity & DI Water) |
|----------------------------|---------------|-----------|---------------|---|
| Ammonium | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |
| Total Oxidised Nitrogen | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |
| Nitrite | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |
| Nitrate (calculation) | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |
| Chloride | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |
| Orthophosphate | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |
| Silica | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |
| Alkalinity (methyl orange) | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |



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Nutrients

Discrete Analysis (Aquakem)
Documented in House Method Based Upon
(ISBN 0117516260, 1981; 0117515930, 1981; 0117516139, 1981; 0117515930, 1981; 0117516015, 1981;
0117515930, 1981; 0117515825, 1980)

WPC 64

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| Analyte | Potable Water | Raw Water | Bottled Water | Process Water (High Purity & DI Water) |
|-------------------------------|---------------|-----------|---------------|---|
| Alkalinity (bromophenol blue) | DWTS | DWTS | None | None |

Nutrients

Gallery Plus Discrete Analysis
Documented In House Method Based Upon
(ISBN: 0117516260, 1981; 0117516139, 1981; 0117515930, 1981; 0117515825, 1980)

WWC 50

Where quoted MCERTS performance standard - chemical testing of WATERS

| Analyte | Treated Sewage | Untreated Sewage | Trade to Sewer | Trade to Controlled |
|-----------------------------|----------------|------------------|----------------|---------------------|
| Ammonia | MCERTS | MCERTS | MCERTS | MCERTS |
| Nitrite | MCERTS | MCERTS | MCERTS | MCERTS |
| Total Oxidised Nitrogen | MCERTS | MCERTS | MCERTS | MCERTS |
| Nitrate (calculation) | MCERTS | MCERTS | MCERTS | MCERTS |
| Chloride | MCERTS | MCERTS | MCERTS | MCERTS |
| Soluble Reactive Phosphorus | MCERTS | MCERTS | MCERTS | MCERTS |

Nutrients

Gallery Discrete Analysis
Documented In House Method Based Upon
(ISBN: 0117516260, 1981; 0117516139, 1981; 0117515930, 1981; 0117515825, 1980)

WWC 50

Where quoted MCERTS performance standard - chemical testing of WATERS

| Analyte | Treated Sewage | Untreated Sewage | Trade to Sewer | Trade to Controlled |
|-----------------------------|----------------|------------------|----------------|---------------------|
| Soluble Reactive Phosphorus | MCERTS | MCERTS | MCERTS | MCERTS |



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Total Organic Carbon (TOC) and Dissolved Organic Carbon (DOC)

Shimadzu TOC-L CPH analyser
Documented In House Method Based Upon
(ISBN: 0117514586, 1979)

WPC 67

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| Analyte | Potable Water | Raw Water |
|--------------------------------|---------------|-----------|
| Dissolved Organic Carbon (DOC) | DWTS | DWTS |
| Total Organic Carbon (TOC) | DWTS | DWTS |

Suspended Solids (105°C) Ashed Solids (450°C)

Gravimetry
Documented In House Method Based Upon
(ISBN: 011751957X, 1980)

WWC 21

Where quoted MCERTS performance standard - chemical testing of WATERS

| Analyte | Treated Sewage | Untreated Sewage | Trade to Sewer | Trade to Controlled |
|--------------------------|----------------|------------------|----------------|---------------------|
| Suspended Solids (105°C) | MCERTS | MCERTS | MCERTS | MCERTS |
| Ashed Solids (450°C) | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |

Total Solids (105°C) Total Ash Solids (550°C)

Gravimetry
Documented In House Method Based Upon
(ISBN: 0117517879, 1984)

WSC 12

| Analyte | Soil | Sludge |
|----------------------------|---------------|---------------|
| Total Solids (105°C) | ISO/IEC 17025 | ISO/IEC 17025 |
| Total Ashed Solids (550°C) | ISO/IEC 17025 | ISO/IEC 17025 |

Biochemical Oxygen Demand (BOD)

Dissolved Oxygen Meter
Documented In house Method Based Upon
(ISO 5815-1:2019)

WWC 11

Where quoted MCERTS performance standard - chemical testing of WATERS

| Surface Water | Treated Sewage | Untreated Sewage | Trade to Sewer | Trade to Controlled |
|---------------|----------------|------------------|----------------|---------------------|
| ISO/IEC 17025 | MCERTS | MCERTS | MCERTS | MCERTS |



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Chemical Oxygen Demand (COD)

DR3800 Spectrophotometer
Documented In house Method Based Upon
The determination of chemical oxygen demand in waters and effluents (2007) MEWAM.

WWC 13

Where quoted MCERTS performance standard - chemical testing of WATERS

| | | | | |
|---------------|----------------|------------------|----------------|---------------------|
| Surface Water | Treated Sewage | Untreated Sewage | Trade to Sewer | Trade to Controlled |
| ISO/IEC 17025 | MCERTS | MCERTS | MCERTS | MCERTS |

Kjeldahl Nitrogen

Spectrophotometer
Documented In House Method Based Upon
(ISBN: 011751888, 1985)

WSC 8

| | |
|---------------|---------------|
| Soil | Sludge |
| ISO/IEC 17025 | ISO/IEC 17025 |

Permanganate Index

Manual Titration
Documented In House Method Based Upon
(ISBN: 011751960X, 1983)

WPC 47

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| | |
|---------------|-----------|
| Potable Water | Raw Water |
| DWTS | DWTS |

Petroleum Ether Extractable Matter

Extraction and Gravimetry
Documented In House Method Based Upon
(ISBN: 0117520764, 1987)

WWC 48

| | | | |
|----------------|------------------|----------------|---------------------|
| Treated Sewage | Untreated Sewage | Trade to Sewer | Trade to Controlled |
| ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |



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METALS TESTS - WAKEFIELD LABORATORY

| Dissolved (Filtered) and Total Metals Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES) Documented In House Method Based Upon (ISBN: 0117532444,1996) WPC 12 Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended | | | | |
|---|---------------|-----------|---------------|---|
| Analyte | Potable Water | Raw Water | Bottled Water | Process Water (High Purity & DI Water) |
| Iron | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |
| Aluminium | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |
| Manganese | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |
| Phosphorus | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |
| Sulphur as Sulphate (SO4) | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |
| Silicon and Silica (SiO2) | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |
| Calcium | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |
| Magnesium | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |
| Hardness as CaCO3 (Calculation) | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |
| Potassium | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |
| Sodium | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |
| Boron | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |

| Dissolved (Filtered) and Total Metals Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES) Documented In House Method Based Upon (ISBN: 0117532444,1996) WPC 49 Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended | | | | |
|---|---------------|-----------|---------------|---|
| Analyte | Potable Water | Raw Water | Bottled Water | Process Water (High Purity & DI Water) |
| Iron | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |
| Manganese | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |
| Aluminium | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |
| Sodium | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |
| Potassium | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |
| Calcium | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |



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Dissolved (Filtered) and Total Metals

Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES)
Documented In House Method Based Upon
(ISBN: 0117532444, 1996)

WPC 49

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| Analyte | Potable Water | Raw Water | Bottled Water | Process Water (High Purity & DI Water) |
|--|---------------|-----------|---------------|---|
| Magnesium | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |
| Hardness as CaCO ₃ (Calculation) | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |
| Sulphur (as sulphate) | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |
| Silicon (as Silica) | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |
| Phosphorus | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |
| Boron | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |

Dissolved (Filtered) and Total Metals

Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES)
Documented In House Method

WWC 8

Where quoted MCERTS performance standard - chemical testing of WATERS

| Analyte | Treated Sewage | Untreated Sewage | Trade to Sewer | Trade to Controlled |
|------------|----------------|------------------|----------------|---------------------|
| Aluminium | MCERTS | MCERTS | MCERTS | MCERTS |
| Boron | MCERTS | MCERTS | MCERTS | MCERTS |
| Cadmium | MCERTS | MCERTS | MCERTS | MCERTS |
| Calcium | MCERTS | MCERTS | MCERTS | MCERTS |
| Chromium | MCERTS | MCERTS | MCERTS | MCERTS |
| Cobalt | MCERTS | MCERTS | MCERTS | MCERTS |
| Copper | MCERTS | MCERTS | MCERTS | MCERTS |
| Iron | MCERTS | MCERTS | MCERTS | MCERTS |
| Magnesium | MCERTS | MCERTS | MCERTS | MCERTS |
| Manganese | MCERTS | MCERTS | MCERTS | MCERTS |
| Nickel | MCERTS | MCERTS | MCERTS | MCERTS |
| Lead | MCERTS | MCERTS | MCERTS | MCERTS |
| Phosphorus | MCERTS | MCERTS | MCERTS | MCERTS |
| Potassium | MCERTS | MCERTS | MCERTS | MCERTS |



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Dissolved (Filtered) and Total Metals

Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES)
Documented In House Method

WWC 8

Where quoted MCERTS performance standard - chemical testing of WATERS

| Analyte | Treated Sewage | Untreated Sewage | Trade to Sewer | Trade to Controlled |
|------------------|----------------|------------------|----------------|---------------------|
| Sodium | MCERTS | MCERTS | MCERTS | MCERTS |
| Thallium | MCERTS | MCERTS | MCERTS | MCERTS |
| Vanadium | MCERTS | MCERTS | MCERTS | MCERTS |
| Zinc | MCERTS | MCERTS | MCERTS | MCERTS |
| Sulphur (as SO4) | MCERTS | MCERTS | MCERTS | MCERTS |

Dissolved (Filtered) and Total Metals

Inductively Coupled Plasma Mass Spectrometry (ICP-MS)
Documented in House Method

WPC 15

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| Analyte | Potable Water | Raw Water | Bottled Water | Process Water (High Purity & DI Water) |
|------------|---------------|-----------|---------------|---|
| Lead | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |
| Copper | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |
| Zinc | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |
| Nickel | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |
| Cadmium | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |
| Chromium | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |
| Silver | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |
| Antimony | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |
| Selenium | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |
| Arsenic | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |
| Strontium | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |
| Barium | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |
| Cobalt | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |
| Molybdenum | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |
| Uranium | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |
| Vanadium | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |



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Dissolved (Filtered) and Total Metals

Inductively Coupled Plasma Mass Spectrometry (ICP-MS)
Documented in House Method

WPC 15

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| Analyte | Potable Water | Raw Water | Bottled Water | Process Water (High Purity & DI Water) |
|-----------|---------------|-----------|---------------|---|
| Tin | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |
| Titanium | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |
| Beryllium | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |
| Lithium | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |
| Thallium | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |

Dissolved (Filtered) and Total Metals

Inductively Coupled Plasma Mass Spectroscopy (ICP-MS)
Documented In House Method Based Upon
(ISO 17294-2:2003)

WWC 46

Where quoted MCERTS performance standard - chemical testing of WATERS

| Analyte | Treated Sewage | Untreated Sewage | Trade to Sewer | Trade to Controlled |
|------------|----------------|------------------|----------------|---------------------|
| Aluminium | MCERTS | MCERTS | MCERTS | MCERTS |
| Vanadium | MCERTS | MCERTS | MCERTS | MCERTS |
| Chromium | MCERTS | MCERTS | MCERTS | MCERTS |
| Iron | MCERTS | MCERTS | MCERTS | MCERTS |
| Manganese | MCERTS | MCERTS | MCERTS | MCERTS |
| Cobalt | MCERTS | MCERTS | MCERTS | MCERTS |
| Nickel | MCERTS | MCERTS | MCERTS | MCERTS |
| Copper | MCERTS | MCERTS | MCERTS | MCERTS |
| Zinc | MCERTS | MCERTS | MCERTS | MCERTS |
| Arsenic | MCERTS | MCERTS | MCERTS | MCERTS |
| Molybdenum | MCERTS | MCERTS | MCERTS | MCERTS |
| Cadmium | MCERTS | MCERTS | MCERTS | MCERTS |
| Thallium | MCERTS | MCERTS | MCERTS | MCERTS |
| Lead | MCERTS | MCERTS | MCERTS | MCERTS |
| Selenium | ISO/IEC 17025 | None | ISO/IEC 17025 | ISO/IEC 17025 |
| Phosphorus | MCERTS | None | MCERTS | MCERTS |



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Testing performed by the Organisation at the locations specified

Dissolved (Filtered) and Total Metals
Inductively Coupled Plasma Mass Spectroscopy (ICP-MS)
Documented In House Method Based Upon
(ISO 17294-2:2003)

WWC 46

Where quoted MCERTS performance standard - chemical testing of WATERS

| Analyte | Treated Sewage | Untreated Sewage | Trade to Sewer | Trade to Controlled |
|---------|----------------|------------------|----------------|---------------------|
| Uranium | MCERTS | MCERTS | MCERTS | MCERTS |

Total Metals

Boiling Acid Digestion followed by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS)
Documented In House Method

WSC 16

| Analyte | Soil | Sludge |
|------------|---------------|---------------|
| Vanadium | ISO/IEC 17025 | ISO/IEC 17025 |
| Cadmium | ISO/IEC 17025 | ISO/IEC 17025 |
| Chromium | ISO/IEC 17025 | ISO/IEC 17025 |
| Cobalt | ISO/IEC 17025 | ISO/IEC 17025 |
| Nickel | ISO/IEC 17025 | ISO/IEC 17025 |
| Copper | ISO/IEC 17025 | ISO/IEC 17025 |
| Arsenic | ISO/IEC 17025 | ISO/IEC 17025 |
| Selenium | ISO/IEC 17025 | ISO/IEC 17025 |
| Molybdenum | ISO/IEC 17025 | ISO/IEC 17025 |
| Thallium | ISO/IEC 17025 | ISO/IEC 17025 |
| Lead | ISO/IEC 17025 | ISO/IEC 17025 |
| Zinc | ISO/IEC 17025 | ISO/IEC 17025 |

Metals

Acid Digestion Followed by Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES)
Documented In House Method

WSC 6

| Analyte | Soil | Sludge |
|-----------|---------------|---------------|
| Aluminium | ISO/IEC 17025 | ISO/IEC 17025 |
| Calcium | ISO/IEC 17025 | ISO/IEC 17025 |
| Chromium | ISO/IEC 17025 | ISO/IEC 17025 |



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Metals
Acid Digestion Followed by Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES)
Documented In House Method
WSC 6

| Analyte | Soil | Sludge |
|------------|---------------|---------------|
| Copper | ISO/IEC 17025 | ISO/IEC 17025 |
| Iron | ISO/IEC 17025 | ISO/IEC 17025 |
| Lead | ISO/IEC 17025 | ISO/IEC 17025 |
| Nickel | ISO/IEC 17025 | ISO/IEC 17025 |
| Phosphorus | ISO/IEC 17025 | ISO/IEC 17025 |
| Sulphur | ISO/IEC 17025 | ISO/IEC 17025 |
| Tin | ISO/IEC 17025 | ISO/IEC 17025 |
| Zinc | ISO/IEC 17025 | ISO/IEC 17025 |
| Potassium | ISO/IEC 17025 | ISO/IEC 17025 |
| Magnesium | ISO/IEC 17025 | ISO/IEC 17025 |
| Manganese | ISO/IEC 17025 | ISO/IEC 17025 |
| Sodium | ISO/IEC 17025 | ISO/IEC 17025 |
| Lithium | ISO/IEC 17025 | ISO/IEC 17025 |
| Cadmium | ISO/IEC 17025 | ISO/IEC 17025 |

Metals
Acid Digestion Followed by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS)
Documented In House Method
WSC 20

| Analyte | Soil | Sludge |
|------------|---------------|---------------|
| Arsenic | ISO/IEC 17025 | ISO/IEC 17025 |
| Cadmium | ISO/IEC 17025 | ISO/IEC 17025 |
| Chromium | ISO/IEC 17025 | ISO/IEC 17025 |
| Copper | ISO/IEC 17025 | ISO/IEC 17025 |
| Lead | ISO/IEC 17025 | ISO/IEC 17025 |
| Mercury | ISO/IEC 17025 | ISO/IEC 17025 |
| Molybdenum | ISO/IEC 17025 | ISO/IEC 17025 |
| Nickel | ISO/IEC 17025 | ISO/IEC 17025 |
| Selenium | ISO/IEC 17025 | ISO/IEC 17025 |



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Metals

Acid Digestion Followed by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS)
Documented In House Method

WSC 20

| Analyte | Soil | Sludge |
|---------|---------------|---------------|
| Zinc | ISO/IEC 17025 | ISO/IEC 17025 |

Dissolved (Filtered) and Total Mercury

Inductively Coupled Plasma Mass Spectroscopy (ICP-MS)
Documented In House Method Based Upon
(ISBN: 0117532444,1996)

WWC 17

Where quoted MCERTS performance standard - chemical testing of WATERS

| Treated Sewage | Untreated Sewage | Trade to Sewer | Trade to Controlled |
|----------------|------------------|----------------|---------------------|
| MCERTS | MCERTS | MCERTS | MCERTS |

Mercury

Boiling Acid Digestion Followed by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS)
Documented In House Method Based Upon
(ISBN: 0117519081, 1986)

WSC 5

| Soil | Sludge |
|---------------|---------------|
| ISO/IEC 17025 | ISO/IEC 17025 |

Total Mercury

Inductively Coupled Plasma Mass Spectroscopy (ICP-MS)
Documented In House Method Based Upon
(ISBN: 0117532444,1996)

WPC 21

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| Potable Water | Raw Water | Bottled Water | Process Water (High Purity & DI Water) |
|---------------|-----------|---------------|---|
| DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |



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Testing performed by the Organisation at the locations specified

Antimony
Boiling Acid Digestion Followed by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS)
Documented In House Method
WSC 7

| | |
|---------------|---------------|
| Soil | Sludge |
| ISO/IEC 17025 | ISO/IEC 17025 |

Extractable Potassium and Magnesium
Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES)
Documented In House Method Based Upon
(ISBN: 0112427626, 1989 Method 40 and 63)
WSC 13

| | |
|-----------------------|---------------|
| Analyte | Soil |
| Extractable Potassium | ISO/IEC 17025 |
| Extractable Magnesium | ISO/IEC 17025 |

Sodium Bicarbonate Extractable Phosphorus
UV 1800 Spectrophotometer
Documented In House Method Based Upon
(ISBN: 0112427626, 1989 Method 59)
WSC 14

| | |
|------------------------|---------------|
| Analyte | Soil |
| Extractable Phosphorus | ISO/IEC 17025 |



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Testing performed by the Organisation at the locations specified

ORGANICS TESTS - WAKEFIELD LABORATORY

Trihalomethanes, Halogenated Solvents, MTBE, TAME and BTEX Compounds

Headspace Gas Chromatography with Mass Spectrometry Detection

Documented In-House Method

WPC 28

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| Analyte | Potable Water | Raw Water |
|-----------------------|---------------|-----------|
| 1,1,1-Trichloroethane | DWTS | DWTS |
| 1,1- Dichloroethane | DWTS | DWTS |
| 1,2-Dichloroethane | DWTS | DWTS |
| Benzene | DWTS | DWTS |
| Bromodichloromethane | DWTS | DWTS |
| Bromoform | DWTS | DWTS |
| Carbon Tetrachloride | DWTS | DWTS |
| Chlorodibromomethane | DWTS | DWTS |
| Chloroform | DWTS | DWTS |
| Dichloromethane | DWTS | DWTS |
| Ethylbenzene | DWTS | DWTS |
| m&p-Xylene | DWTS | DWTS |
| MTBE | DWTS | DWTS |
| o-Xylene | DWTS | DWTS |
| Tetrachloroethene | DWTS | DWTS |
| Trichloroethene | DWTS | DWTS |
| 1,2 - Dibromoethane | DWTS | DWTS |
| Toluene | DWTS | DWTS |



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Testing performed by the Organisation at the locations specified

Polycyclic Aromatic Hydrocarbons
High Performance Liquid Chromatography
Documented In-House Method

WPC 27

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| Analyte | Potable Water | Raw Water |
|------------------------|---------------|-----------|
| Benzo (b) fluoranthene | DWTS | DWTS |
| Benzo(k)fluoranthene | DWTS | DWTS |
| Benzo(ghi)perylene | DWTS | DWTS |
| Benzo(a)pyrene | DWTS | DWTS |
| Fluoranthene | DWTS | DWTS |
| Indeno(1,2,3-cd)pyrene | DWTS | DWTS |

Polar Herbicides (Benzonitrile, Phenoxyalkanoic Herbicides and Other Compounds)

Direct Aqueous Injection and High-Performance Liquid Chromatography With Mass Spectrometry Detection
Documented In-House Method

WPC 45

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| Analyte | Potable Water | Raw Water |
|-----------------------------|---------------|-----------|
| 2,3,6-Trichlorobenzoic acid | DWTS | DWTS |
| 2,4,5-T | DWTS | DWTS |
| 2,4,5-TP (Fenoprop) | DWTS | DWTS |
| 2,4-D | DWTS | DWTS |
| 2,4-DB | DWTS | DWTS |
| 2,4-DP (Dichloroprop) | DWTS | DWTS |
| Asulam | DWTS | DWTS |
| Benazolin | DWTS | DWTS |
| Bentazone | DWTS | DWTS |
| Bromoxynil | DWTS | DWTS |
| Clopyralid | DWTS | DWTS |
| Dicamba | DWTS | DWTS |
| Fluroxypyr | DWTS | DWTS |
| Imazapyr | DWTS | DWTS |
| loxynil | DWTS | DWTS |



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Polar Herbicides (Benzonitrile, Phenoxyalkanoic Herbicides and Other Compounds)
Direct Aqueous Injection and High-Performance Liquid Chromatography With Mass Spectrometry Detection
Documented In-House Method

WPC 45

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| Analyte | Potable Water | Raw Water |
|-------------------|---------------|-----------|
| MCPA | DWTS | DWTS |
| MCPB | DWTS | DWTS |
| MCPP (Mecoprop) | DWTS | DWTS |
| Pentachlorophenol | DWTS | DWTS |
| Picloram | DWTS | DWTS |
| Propamocarb | DWTS | DWTS |
| Triclopyr | DWTS | DWTS |

Organochlorine Pesticides and Selected Non-Polar Organic Compounds

Solvent Extraction and Analysis by Gas Chromatography with Triple Quadrupole Mass Spectrometric Detection
Documented In House Method

WPC 50

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| Analyte | Potable Water | Raw Water |
|--------------------------|---------------|-----------|
| Dichlobenil | DWTS | DWTS |
| alpha-HCH | DWTS | DWTS |
| Hexachlorobenzene | DWTS | DWTS |
| gamma-HCH | DWTS | DWTS |
| Chlorothalonil | DWTS | DWTS |
| Heptachlor | DWTS | DWTS |
| Aldrin | DWTS | DWTS |
| cis-Heptachlor Epoxide | DWTS | DWTS |
| trans-Heptachlor Epoxide | DWTS | DWTS |
| o,p'-DDE | DWTS | DWTS |
| p,p'-DDE | DWTS | DWTS |
| Dieldrin | DWTS | DWTS |
| o,p'-TDE | DWTS | DWTS |
| p,p'-TDE | DWTS | DWTS |



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Organochlorine Pesticides and Selected Non-Polar Organic Compounds

Solvent Extraction and Analysis by Gas Chromatography with Triple Quadrupole Mass Spectrometric Detection
Documented In House Method

WPC 50

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| Analyte | Potable Water | Raw Water |
|---------------------|---------------|-----------|
| o,p'-DDT | DWTS | DWTS |
| p,p'-DDT | DWTS | DWTS |
| Methoxychlor | DWTS | DWTS |
| Tecnazene | DWTS | DWTS |
| Trifluralin | DWTS | DWTS |
| cis-Permethrin | DWTS | DWTS |
| trans-Permethrin | DWTS | DWTS |
| Cypermethrin | DWTS | DWTS |
| Deltamethrin | DWTS | DWTS |
| Chlorthal-dimethyl | DWTS | DWTS |
| Parathion-ethyl | DWTS | DWTS |
| Pentachlorobenzene | DWTS | DWTS |
| Diazinon | DWTS | DWTS |
| Diflufenican | DWTS | DWTS |
| Lambda-Cyhalothrin | DWTS | DWTS |
| Triallate | DWTS | DWTS |
| Chlorbufam | DWTS | DWTS |
| Chlorpropham | DWTS | DWTS |
| Chlorpyrifos-ethyl | DWTS | DWTS |
| Chlorpyrifos-methyl | DWTS | DWTS |
| Clomazone | DWTS | DWTS |
| Ethofumesate | DWTS | DWTS |
| Ethoprophos | DWTS | DWTS |
| Fenpropimorph | DWTS | DWTS |
| Pendimethalin | DWTS | DWTS |
| Picolinafen | DWTS | DWTS |
| Pirimicarb | DWTS | DWTS |
| Pirimiphos-methyl | DWTS | DWTS |



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Organochlorine Pesticides and Selected Non-Polar Organic Compounds

Solvent Extraction and Analysis by Gas Chromatography with Triple Quadrupole Mass Spectrometric Detection
Documented In House Method

WPC 50

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| Analyte | Potable Water | Raw Water |
|-------------|---------------|-----------|
| Propham | DWTS | DWTS |
| Propyzamide | DWTS | DWTS |

Chlormequat, Diquat & Mepiquat

Direct Aqueous Injection HILIC High Performance Liquid Chromatography With Multiple Reaction Monitoring Mass Spectrometry Detection
Documented In House Method

WPC 69

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| Analyte | Potable Water | Raw Water |
|-------------|---------------|-----------|
| Chlormequat | DWTS | DWTS |
| Diquat | DWTS | DWTS |
| Mepiquat | DWTS | DWTS |

Glyphosate and Aminomethylphosphonic Acid (AMPA)

FMOC Derivatisation, Large Volume Direct Aqueous Injection On-Line Polymeric Solid Phase Extraction and High Performance Liquid Chromatography with Multiple Reaction Monitoring Mass Spectrometry Detection
Documented in House Method

WPC 68

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| Analyte | Potable Water | Raw Water |
|-----------------------------------|---------------|-----------|
| Glyphosate | DWTS | DWTS |
| Aminomethylphosphonic acid (AMPA) | DWTS | DWTS |



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Chlormequat, Diquat, & Mepiquat

Solid Phase Extraction followed by analysis via Liquid Chromatography Mass Spectrometry (LC-MSMS SRM mode)
Documented In House Method

WPC 51

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| Analyte | Potable Water | Raw Water |
|-------------|---------------|-----------|
| Chlormequat | DWTS | DWTS |
| Diquat | DWTS | DWTS |
| Mepiquat | DWTS | DWTS |

Metalddehyde

Large Volume Direct Aqueous Injection On-Line Solid Phase Extraction and High-Performance Liquid
Chromatography with Selected Reaction Monitoring Mass Spectrometry Detection
Documented in House Method

WPC 73

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| Analyte | Potable Water | Raw Water |
|--------------|---------------|-----------|
| Metalddehyde | DWTS | DWTS |

Microcystin – LR

Large Volume Direct Aqueous Injection On-Line Solid Phase Extraction and High Performance Liquid
Chromatography With Multiple Reaction Monitoring Mass Spectrometry Detection
Documented In House Method

WPC 59

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| Analyte | Potable Water | Raw Water |
|----------------|---------------|-----------|
| Microcystin-LR | DWTS | DWTS |



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Testing performed by the Organisation at the locations specified

Haloacetic Acids and Dalapon

Direct Aqueous Injection and High-Performance Liquid Chromatography with selected reaction monitoring mass spectrometry detection

Documented In House Method

WPC 75

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| Analyte | Potable Water | Raw Water |
|--------------------------------------|---------------|-----------|
| MonoChloroAcetic Acid (MCAA) | DWTS | DWTS |
| MonoBromoAcetic Acid (MBAA) | DWTS | DWTS |
| DiChloroAcetic Acid (DCAA) | DWTS | DWTS |
| 2,2-DiChloroPropanoic Acid (Dalapon) | DWTS | DWTS |
| TriChloroAcetic Acid (TCAA) | DWTS | DWTS |
| BromoChloroAcetic Acid (BCAA) | DWTS | DWTS |
| DiBromoAcetic Acid (DBAA) | DWTS | DWTS |
| BromoDiChloroAcetic Acid (BDCAA) | DWTS | DWTS |
| DiBromoChloroAcetic Acid (DBCAA) | DWTS | DWTS |
| TriBromoAcetic Acid (TBAA) | DWTS | DWTS |

Taste & Odour Compounds

Liquid-Liquid Extraction and Gas Chromatography with Triple Quadrupole Mass Spectrometric Detection
Documented in House Method

WPC 66

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| Analyte | Potable Water | Raw Water |
|-------------------------------|---------------|-----------|
| 2-Bromophenol | DWTS | DWTS |
| 2-6-Dibromophenol | DWTS | DWTS |
| 2-4-Dibromophenol | DWTS | DWTS |
| 2,4,6-Tribromophenol | DWTS | DWTS |
| 2-Isopropyl-3-methoxypyrazine | DWTS | DWTS |
| 3-Chloroanisole | DWTS | DWTS |
| 4-Chloroanisole | DWTS | DWTS |
| 2-Chloroanisole | DWTS | DWTS |
| 2-Isobutyl-3-methoxypyrazine | DWTS | DWTS |
| 2-methylisoborneol | DWTS | DWTS |



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Taste & Odour Compounds

Liquid-Liquid Extraction and Gas Chromatography with Triple Quadrupole Mass Spectrometric Detection
Documented in House Method

WPC 66

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| Analyte | Potable Water | Raw Water |
|------------------------|---------------|-----------|
| 2,4,6-Trichloroanisole | DWTS | DWTS |
| Geosmin | DWTS | DWTS |
| 2,3,4-Trichloroanisole | DWTS | DWTS |
| 2,4,6-Tribromoanisole | DWTS | DWTS |

Taste & Odour Compounds

Liquid-Liquid Extraction and Gas Chromatography with Triple Quadrupole Mass Spectrometric Detection
Documented in House Method

WPC 77

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| Analyte | Potable Water | Raw Water |
|-------------------------------|---------------|-----------|
| 2-Isopropyl-3-methoxypyrazine | DWTS | DWTS |
| 3-Chloroanisole | DWTS | DWTS |
| 4-Chloroanisole | DWTS | DWTS |
| 2-Chloroanisole | DWTS | DWTS |
| 2-Isobutyl-3-methoxypyrazine | DWTS | DWTS |
| 2-methylisoborneol | DWTS | DWTS |
| 2,4,6-Trichloroanisole | DWTS | DWTS |
| Geosmin | DWTS | DWTS |
| 2,3,4-Trichloroanisole | DWTS | DWTS |
| 2,4,6-Tribromoanisole | DWTS | DWTS |

Carbamate, Conazole, Organophosphorus, Phenyl Urea, Triazine and Neutral Compounds

Large Volume Direct Aqueous Injection On-Line Solid Phase Extraction and High-Performance Liquid
Chromatography with Multiple Reaction Monitoring Mass Spectrometry Detection
Documented In House Method

WPC 71

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| Analyte | Potable Water | Raw Water |
|----------|---------------|-----------|
| Atrazine | DWTS | DWTS |



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Carbamate, Conazole, Organophosphorus, Phenyl Urea, Triazine and Neutral Compounds
Large Volume Direct Aqueous Injection On-Line Solid Phase Extraction and High-Performance Liquid Chromatography with Multiple Reaction Monitoring Mass Spectrometry Detection
Documented In House Method
WPC 71

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| Analyte | Potable Water | Raw Water |
|-----------------------|---------------|-----------|
| Atrazine-desethyl | DWTS | DWTS |
| Atrazine-desisopropyl | DWTS | DWTS |
| Azinphos-methyl | DWTS | DWTS |
| Azoxystrobin | DWTS | DWTS |
| Bixafen | DWTS | DWTS |
| Boscalid | DWTS | DWTS |
| Bromacil | DWTS | DWTS |
| Carbendazim | DWTS | DWTS |
| Carbetamide | DWTS | DWTS |
| | | |
| Chlorfenvinphos | DWTS | DWTS |
| Chlortoluron | DWTS | DWTS |
| | | |
| Cyanazine | DWTS | DWTS |
| Cyproconazole | DWTS | DWTS |
| Dichlorvos | DWTS | DWTS |
| Difenoconazole | DWTS | DWTS |
| Dimethoate | DWTS | DWTS |
| Diuron | DWTS | DWTS |
| Epoxiconazole | DWTS | DWTS |
| EPTC | DWTS | DWTS |
| | | |
| | | |
| | | |
| Flufenacet | DWTS | DWTS |
| Flurtamone | DWTS | DWTS |



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Carbamate, Conazole, Organophosphorus, Phenyl Urea, Triazine and Neutral Compounds
Large Volume Direct Aqueous Injection On-Line Solid Phase Extraction and High-Performance Liquid
Chromatography with Multiple Reaction Monitoring Mass Spectrometry Detection
Documented In House Method
WPC 71

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| Analyte | Potable Water | Raw Water |
|-------------------------|---------------|-----------|
| Flusilazole | DWTS | DWTS |
| Flutrifol | DWTS | DWTS |
| Fluxapyroxad | DWTS | DWTS |
| Isoproturon | DWTS | DWTS |
| Lenacil | DWTS | DWTS |
| Linuron | DWTS | DWTS |
| Malathion | DWTS | DWTS |
| Mefentrifluconazole | DWTS | DWTS |
| Metazachlor | DWTS | DWTS |
| Metconazole | DWTS | DWTS |
| Methabenzthiazuron | DWTS | DWTS |
| Methiocarb | DWTS | DWTS |
| Metoxuron | DWTS | DWTS |
| Metribuzin | DWTS | DWTS |
| Metsulfuron-methyl | DWTS | DWTS |
| Mevinphos | DWTS | DWTS |
| Monuron | DWTS | DWTS |
| Oxadixyl | DWTS | DWTS |
| Prochloraz | DWTS | DWTS |
| Prometryn | DWTS | DWTS |
| Propachlor | DWTS | DWTS |
| Propazine | DWTS | DWTS |
| Propetamphos | DWTS | DWTS |
| Propiconazole | DWTS | DWTS |
| Prothioconazole-desthio | DWTS | DWTS |
| Prosulfocarb | DWTS | DWTS |
| Quinmerac | DWTS | DWTS |



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Testing performed by the Organisation at the locations specified

Carbamate, Conazole, Organophosphorus, Phenyl Urea, Triazine and Neutral Compounds
Large Volume Direct Aqueous Injection On-Line Solid Phase Extraction and High-Performance Liquid Chromatography with Multiple Reaction Monitoring Mass Spectrometry Detection
Documented In House Method
WPC 71

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| Analyte | Potable Water | Raw Water |
|------------------------|---------------|-----------|
| Simazine | DWTS | DWTS |
| Spiroxamine | DWTS | DWTS |
| Tebuconazole | DWTS | DWTS |
| Terbutylazine | DWTS | DWTS |
| Terbutryn | DWTS | DWTS |
| Triazophos | DWTS | DWTS |
| Trietazine | DWTS | DWTS |
| Trinexapac-ethyl | DWTS | DWTS |
| Benzovindiflupyr | DWTS | DWTS |
| Diclofenac(free acid) | DWTS | DWTS |
| Dimethenamid-P | DWTS | DWTS |
| Fluopyram | DWTS | DWTS |
| Metamitron | DWTS | DWTS |
| Metobromuron | DWTS | DWTS |
| Oxamyl | DWTS | DWTS |
| Pyraclostrobin | DWTS | DWTS |
| Thifensulfuron- Methyl | DWTS | DWTS |
| Trifloxystrobin | DWTS | DWTS |



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Testing performed by the Organisation at the locations specified

Phenols and Chlorophenols

Pentafluorobenzoylation Liquid-Liquid Extraction and Detection by Gas Chromatography with Mass Spectrometric Detection

Documented In House Method

WPC 70

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| Analyte | Potable Water | Raw Water |
|---|---------------|-----------|
| Phenol | DWTS | DWTS |
| 2-Methylphenol | DWTS | DWTS |
| 3-Methylphenol | DWTS | DWTS |
| 4-Methylphenol | DWTS | DWTS |
| 2-Chlorophenol | DWTS | DWTS |
| 3-Chlorophenol | DWTS | DWTS |
| 4-Chlorophenol | DWTS | DWTS |
| 2,3-Dimethylphenol | DWTS | DWTS |
| 2,4-Dimethylphenol | DWTS | DWTS |
| 2,5-Dimethylphenol | DWTS | DWTS |
| 2,6-Dimethylphenol | DWTS | DWTS |
| 3,4-Dimethylphenol | DWTS | DWTS |
| 3,5-Dimethylphenol | DWTS | DWTS |
| 2-Chloro-4-methylphenol | DWTS | DWTS |
| 3-Chloro-4-methylphenol | DWTS | DWTS |
| 2-Chloro-5-Methylphenol + 4-Chloro-2-Methylphenol | DWTS | DWTS |
| 2,3-Dichlorophenol | DWTS | DWTS |
| 2,4-Dichlorophenol | DWTS | DWTS |
| 2,6-Dichlorophenol | DWTS | DWTS |
| 2,4,5-Trichlorophenol | DWTS | DWTS |
| 2,4,6-Trichlorophenol | DWTS | DWTS |



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Testing performed by the Organisation at the locations specified

Acrylamide

Direct Aqueous Injection and High-Performance Liquid Chromatography with Multiple Reaction Monitoring Mass Spectrometry Detection
Documented In House Method

WPC 53

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| Analyte | Potable Water | Raw Water |
|------------|---------------|-----------|
| Acrylamide | DWTS | DWTS |

Vinyl Chloride

Static Headspace Gas Chromatography with Mass Spectrometry Detection
Documented In House Method

WPC 63

| Analyte | Potable Water | Raw Water |
|----------------|---------------|---------------|
| Vinyl Chloride | ISO/IEC 17025 | ISO/IEC 17025 |

Poly and Perfluorinated Alkyl Substances (PFAS)

SPE Extraction, LCQQQ
Documented In-House Method

WPC 78

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| Analyte | Potable Water | Raw Water |
|---------|---------------|-----------|
| PFBA | DWTS | DWTS |
| PFPeA | DWTS | DWTS |
| PFHxA | DWTS | DWTS |
| PFHpA | DWTS | DWTS |
| PFOA | DWTS | DWTS |
| PFNA | DWTS | DWTS |
| PFDA | DWTS | DWTS |
| PFUnA | DWTS | DWTS |
| PFDoA | DWTS | DWTS |
| PFTTrDA | DWTS | DWTS |
| PFTeDA | DWTS | DWTS |
| PFHxDA | DWTS | DWTS |
| PFODA | DWTS | DWTS |



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Poly and Perfluorinated Alkyl Substances (PFAS)

SPE Extraction, LCQQQ
Documented In-House Method

WPC 78

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| Analyte | Potable Water | Raw Water |
|--------------|---------------|-----------|
| PFBS | DWTS | DWTS |
| PFPeS | DWTS | DWTS |
| PFHxS | DWTS | DWTS |
| PFHpS | DWTS | DWTS |
| PFOS | DWTS | DWTS |
| PFNS | DWTS | DWTS |
| PFDS | DWTS | DWTS |
| PFUnS | DWTS | DWTS |
| PFDoS | DWTS | DWTS |
| HFPO-DA | DWTS | DWTS |
| HFPO-TA | DWTS | DWTS |
| DONA | DWTS | DWTS |
| PFMOPrA | DWTS | DWTS |
| NFDHA | DWTS | DWTS |
| PFMOBA | DWTS | DWTS |
| PFecHS-K | DWTS | DWTS |
| 3:3 FTCA | DWTS | DWTS |
| 5:3 FTCA | DWTS | DWTS |
| 7:3 FTCA | DWTS | DWTS |
| PFEESA | DWTS | DWTS |
| 6:2 Cl-PFESA | DWTS | DWTS |
| 8:2 Cl-PFESA | DWTS | DWTS |
| 4:2 FTS | DWTS | DWTS |
| 6:2 FTS | DWTS | DWTS |
| 8:2 FTS | DWTS | DWTS |
| FBSA | DWTS | DWTS |
| FHxSA | DWTS | DWTS |
| PFOSA | DWTS | DWTS |



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Poly and Perfluorinated Alkyl Substances (PFAS)

SPE Extraction, LCQQQ
Documented In-House Method

WPC 78

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| Analyte | Potable Water | Raw Water |
|---------|---------------|-----------|
| MeFOSA | DWTS | DWTS |
| EtFOSA | DWTS | DWTS |
| MeFOSE | DWTS | DWTS |
| EtFOSE | DWTS | DWTS |
| MeFOSAA | DWTS | DWTS |
| EtFOSAA | DWTS | DWTS |
| 6:2FTAB | DWTS | DWTS |



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MICROBIOLOGY TESTS – WAKEFIELD LABORATORY

| <p align="center">Total Aerobic Micro-organisms Isolation and Enumeration by Pour Plate Method Documented In House Method Based Upon The Microbiology of Drinking Water (2020) - Part 7 – Methods for the enumeration of heterotrophic bacteria. WPM 1 Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended</p> | | | | |
|---|---------------|-----------|----------------|--------------------|
| Analyte | Potable Water | Raw Water | Process Waters | Recreational Water |
| Total Aerobic Colony Count at 22°C | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |
| Total Aerobic Colony Count at 37°C | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |
| Total Aerobic colony count at 30°C for 2 days | None | None | ISO/IEC 17025 | None |

| <p align="center">Coliforms, and Escherichia coli (presumptive and confirmed) Isolation and Enumeration by Membrane Filtration followed by traditional or MALDI-TOF confirmation Documented In House Method Based Upon The Microbiology of Drinking Water (2016) - Part 4 - Methods for the isolation and enumeration of coliform bacteria and Escherichia coli (including E. coli O157:H7). WPM 4 Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended</p> | | | | |
|---|---------------|-----------|----------------|--------------------|
| Analyte | Potable Water | Raw Water | Process Waters | Recreational Water |
| Coliforms | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |
| Escherichia coli | DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |

| <p align="center">Clostridium perfringens (presumptive and confirmed) Isolation and Enumeration by Membrane Filtration followed by traditional or MALDI-TOF confirmation Documented In House Method Based Upon The Microbiology of Drinking Water (2021) - Part 6 - Methods for the isolation and enumeration of sulphite-reducing clostridia and Clostridium perfringens by membrane filtration. WPM 3 Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended</p> | | | |
|--|-----------|----------------|--------------------|
| Potable Water | Raw Water | Process Waters | Recreational Water |
| DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |



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Testing performed by the Organisation at the locations specified

Enterococci (presumptive and confirmed)

Isolation and Enumeration by Membrane Filtration followed by traditional or MALDI-TOF confirmation
Documented In House Method Based Upon
The Microbiology of Drinking Water (2012) - Part 5 - Methods for the isolation and enumeration of enterococci.
The Microbiology of Recreational and Environmental Waters (2015) – Part 4 – Methods for the isolation and enumeration of enterococci.

WPM 2

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| Potable Water | Raw Water | Process Waters | Recreational Water |
|---------------|-----------|----------------|--------------------|
| DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |

Pseudomonas aeruginosa (presumptive and confirmed)

Isolation and Enumeration by Membrane Filtration followed by traditional or MALDI-TOF confirmation
Documented In House Method Based Upon
The Microbiology of Drinking Water (2015) - Part 8 - Methods for the isolation and enumeration of Aeromonas and Pseudomonas aeruginosa by membrane filtration.
Health Technical Memorandum 04-01: Safe water in healthcare premises - Part C: Pseudomonas aeruginosa – advice for augmented care units (2016).

WPM 11

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| Potable Water | Raw Water | Process Water (Pure Water) | Recreational Water (Natural & Man made) |
|---------------|-----------|----------------------------|---|
| DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |

Pseudomonas spp (presumptive and confirmed)

Isolation and Enumeration by Membrane Filtration followed by traditional confirmation
Documented In House Method

WPM 12

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| Potable Water | Raw Water | Process Water | Recreational Water (Natural & Man made) |
|---------------|-----------|---------------|---|
| DWTS | DWTS | ISO/IEC 17025 | ISO/IEC 17025 |

Legionella – Confirmation Only

Confirmation by MALDI-TOF only
Documented In House Method

W5

| Analyte | Potable Water | Surface Water | Ground Water |
|-------------------------------|---------------|---------------|---------------|
| <i>Legionella</i> spp | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |
| <i>Legionella pneumophila</i> | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |



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Testing performed by the Organisation at the locations specified

Taste and Odour

Assessed Panel

Documented In House Method Based Upon

SCA Blue Book: -The Determination of Taste and Odour in drinking Water 2014. Methods for the examination of waters and Associated Materials.

WPM 10

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| Analyte | Potable Water | Raw Water |
|--------------------|---------------|-----------|
| Quantitative Taste | DWTS | None |
| Quantitative Odour | DWTS | DWTS |



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Testing performed by the Organisation at the locations specified

RADIOCHEMISTRY TESTS – WAKEFIELD LABORATORY

Gross Alpha and Beta Radioactivity
Documented In House Method Based Upon
(ISBN: 011751909X, 1985-1986)
WPC 23

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| Analyte | Potable Water | Raw Water |
|----------------------------------|---------------|-----------|
| Gross Alpha (relative to Am-241) | DWTS | DWTS |
| Gross Beta (relative to K-40) | DWTS | DWTS |



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Testing performed by the Organisation at the locations specified

SECTION 3

DETAIL OF ACCREDITATION at the DOL LABORATORY

DOL Tests – Inorganics

| | | | |
|-------------------------|--|---|--|
| Ammonia | | Formaldehyde - Visual Screening | |
|-------------------------|--|---|--|

DOL Tests – Organics

| | | | |
|-------------------------|-------------------------------------|--|--|
| Geomsin | p-Cresol and Phenol | Carbetamide, Chlortoluron, Diuron, Isoproturon and Linuron | Mecoprop, MCPA and 2,4-D |
|-------------------------|-------------------------------------|--|--|



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Testing performed by the Organisation at the locations specified

INORGANIC TESTS - DOL LABORATORY

| |
|---|
| <p>Ammonia Spectrophotometry Documented In House Method Based Upon (ISBN: 0117516139, 1981) DOL 3</p> |
| <p>Surface Water</p> |
| <p>ISO IEC 17025</p> |

| |
|--|
| <p>Formaldehyde - visual screening Colorimetry/Visual Screening Documented In House Method Based Upon (ISBN: 0117516902, 1983) DOL 2</p> |
| <p>Surface Water</p> |
| <p>ISO IEC 17025</p> |



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ORGANIC TESTS - DOL LABORATORY

| | |
|---|---------------|
| Geosmin Gas Chromatography with Mass Spectroscopy Documented In-House Method DOL 5 | |
| Analyte | Surface Water |
| Geosmin | ISO IEC 17025 |

| | |
|--|---------------|
| p-Cresol and Phenol High Performance Liquid Chromatography -Fluorescence Detection Documented In House Method Based Upon (ISBN: 0117517267, 1983) DOL 10 | |
| Analyte | Surface Water |
| p-Cresol | ISO IEC 17025 |
| Phenol | ISO IEC 17025 |

| | |
|---|---------------|
| Carbetamide, Chlortoluron, Diuron, Isoproturon and Linuron High Performance Liquid Chromatography With UV-Diode Array Detection Documented In House Method Based Upon (ISBN: 0117529281, 1994) DOL 14 | |
| Analyte | Surface Water |
| Carbetamide | ISO IEC 17025 |
| Chlortoluron | ISO IEC 17025 |
| Diuron | ISO IEC 17025 |
| Isoproturon | ISO IEC 17025 |
| Linuron | ISO IEC 17025 |



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Mecoprop, MCPA and 2,4-D
Liquid-Liquid Extraction and Gas Chromatography-Mass Spectroscopy
Documented In House Method Based Upon
(ISBN: 0117518867, 1985)
DOL 15

| Analyte | Surface Water |
|----------|---------------|
| Mecoprop | ISO IEC 17025 |
| MCPA | ISO IEC 17025 |
| 2,4-D | ISO IEC 17025 |



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Testing performed by the Organisation at the locations specified

SECTION 4

DETAIL OF ACCREDITATION for SAMPLING and ON-SITE TESTING

Sampling and On-site Analysis

| | | | |
|--|---|--|---|
| Ground Gas Monitoring | Ground Water Sampling | Legionella Sampling | On-site effluent chlorine testing |
| On-site potable chlorine & temperature testing | OSM Sampling | Potable Water Sampling | Sludge Sampling |
| Surface Water Sampling | Trade Effluent Sampling | UWWTD Sampling | |



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SAMPLING AND ON-SITE ANALYSIS

| Ground Gas Monitoring Using a GA 5000 multi gas analyser Documented In-House Method COM 07 | |
|---|---------------------------|
| Activity | Landfill & Biogenic Gases |
| Sampling from Boreholes | ISO/IEC 17025 |
| On-site Carbon Dioxide analysis | ISO/IEC 17025 |
| On-site Methane analysis | ISO/IEC 17025 |
| On-site Oxygen analysis | ISO/IEC 17025 |

| Ground Water Sampling Using a Waterra Powerpack PP1 pump Documented In-House Method COM 05 | |
|---|---------------|
| Activity | Ground Water |
| Sampling | ISO/IEC 17025 |

| Legionella Sampling Documented In-House Method COM 12 | | | |
|---|---------------------------------|---------------|--------------------|
| Activity | Drinking Water (non-regulatory) | Process Water | Recreational water |
| Sampling | ISO/IEC 17025 | ISO/IEC 17025 | ISO/IEC 17025 |

| On-site Effluent Chlorine Testing Using colorimetry (meter) Documented In-House Method OSM 11 Where quoted MCERTS performance standard - chemical testing of WATERS | |
|---|---------------------|
| Activity | Trade to Controlled |
| On-site Total Chlorine analysis | MCERTS |
| On-site Free Chlorine analysis | MCERTS |



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Testing performed by the Organisation at the locations specified

On-site Potable Chlorine & Temperature Testing

Using colorimetry (meter)
Documented In-House Method
POT 03

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| Activity | Drinking Water |
|--|----------------|
| On-site Total Residual Chlorine analysis | DWTS |
| On-site Free Residual Chlorine analysis | DWTS |
| Temperature | DWTS |

OSM Sampling

Manual spot sampling
Documented In-House Method
OSM 05

Where quoted MCERTS performance standard - chemical testing of WATERS

| Activity | Treated Sewage | Untreated Sewage | Trade to Controlled |
|--|----------------|------------------|---------------------|
| Sampling from Sewage Treatment Works and Water Treatment Works | MCERTS | MCERTS | MCERTS |

Potable Water Sampling

Documented In-House Method
The Microbiology of Drinking Water (2010) - Part 2 – Practices and procedures for sampling
POT 01

Where quoted DWTS - The Water Supply (Water Quality) Regulations 2016 (SI 2016/614) as amended

| Activity | Drinking Water |
|--|----------------|
| Sampling from Customer taps and Service Reservoirs | DWTS |

Sludge Sampling

Documented In-House Method
SLU 01

| Activity | Sludge (Digester feed, Liquid to land and Cake to land) |
|----------|--|
| Sampling | ISO/IEC 17025 |



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Testing performed by the Organisation at the locations specified

Surface Water Sampling
Spot sampling
Documented In-House Method
COM 06

| | |
|----------|---------------|
| Activity | Surface Water |
| Sampling | ISO/IEC 17025 |

Trade Effluent Sampling
Spot sampling
Documented In-House Method
COM 13

| | |
|----------------------------|----------------|
| Activity | Trade Effluent |
| Sampling from Interceptors | ISO/IEC 17025 |

UWWTD Sampling
using automated composite samplers
Documented In-House Method
UWW 01
Where quoted MCERTS performance standard - chemical testing of WATERS

| | | |
|--------------------------------------|----------------|------------------|
| Activity | Treated Sewage | Untreated Sewage |
| Sampling from Sewage Treatment Works | MCERTS | MCERTS |

END