

# Proficiency Testing Contaminated Land (CONTEST) 2023

## APPLICATION FORM

Please complete all sections below and return to LGC AXIO Proficiency Testing: [axiopt@lgcgroup.com](mailto:axiopt@lgcgroup.com)

Returning customer Lab ID:

Purchase order no.:  
(compulsory)

### YOUR ORDER

If you would like to renew your order as per your previous year's order, please tick this box:

**RENEW ME AS LAST YEAR**

☐

We will copy over the samples/rounds purchased by you in the previous year and send you an order confirmation for your review. If you would like to add any other samples to your order, please mark them accordingly on the subsequent pages.

If you would prefer to place a different/new order for this scheme year, please review the samples available on subsequent pages and indicate the number of samples required for each sample/round accordingly.

### SCHEDULE OVERVIEW

| Month | Round | Despatch Date | Reporting Deadline | Samples Available (PT-CN)   |
|-------|-------|---------------|--------------------|---|
| FEB   | CN135 | 13 Feb        | 20 Mar             | A-FULL, A-REDUCED, B-FULL, B-REDUCED, C-FULL, C-REDUCED, D, E, 23, 27, 30     |
| APR   | CN136 | 17 Apr        | 22 May             | A-FULL, A-REDUCED, B-FULL, B-REDUCED, C-FULL, C-REDUCED, D, E, 23, 25, 26     |
| JUL   | CN137 | 03 Jul        | 07 Aug             | A-FULL, A-REDUCED, B-FULL, B-REDUCED, C-FULL, C-REDUCED, E, 27, 28            |
| SEP   | CN138 | 18 Sep        | 23 Oct             | A-FULL, A-REDUCED, B-FULL, B-REDUCED, C-FULL, C-REDUCED, D, E, 23, 25, 26, 30 |
| NOV   | CN139 | 13 Nov        | 18 Dec             | A-FULL, A-REDUCED, B-FULL, B-REDUCED, C-FULL, C-REDUCED, E, 28, 29            |

Please ensure that LGC receive your order as soon as possible in order to avoid stock shortages. Please note that orders received the week prior to the despatch date may be subject to a despatch delay.

Sample C (Full) is subject to UK export control and as such, we require a licence to ship. Please ensure your order is placed 6 weeks prior to the despatch date to allow sufficient time to apply for a license. LGC will contact you with further information once the order is placed

The despatch date shown above is the date the sample will leave our site in the UK. Please note, this is not the date the samples will arrive at your laboratory. Delivery times vary based on country, if you require further information, please contact LGC.

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**SAMPLE AVAILABILITY – Please see page 1 for specific despatch and reporting dates**

Please indicate the number of samples required per round in the grid. If you require a sample in all available rounds, please complete the **ALL** column.

| Group A - Metals  |          |                          |   | Month and Rounds (CN) |         |         |         |         |         |
|---|----------|--------------------------|---|-----------------------|---------|---------|---------|---------|---------|
| Sample  | Quantity | Supplied as              | Target Analyte(s)   | ALL                   | FEB 135 | APR 136 | JUL 137 | SEP 138 | NOV 139 |
| <b>Full participation</b> (Samples 1a, 1b, 1c, 2, 3a, 13) |          |                          |   |                       |         |         |         |         |         |
| <b>Reduced participation</b> (Sample 3a only)             |          |                          |   |                       |         |         |         |         |         |
| <b>1a</b>   | 8ml      | Standard solution        | Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Iron; Lead; Manganese; Molybdenum; Nickel; Thallium; Tin; Vanadium; Zinc  |                       |         |         |         |         |         |
| <b>1b</b>   | 8ml      | Standard solution        | Antimony; Arsenic; Selenium   |                       |         |         |         |         |         |
| <b>1c</b>   | 8ml      | Standard solution        | Mercury   |                       |         |         |         |         |         |
| <b>2</b>  | 60ml     | Solution of soil extract | Antimony; Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Iron; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Thallium; Tin; Vanadium; Zinc                |                       |         |         |         |         |         |
| <b>3a</b>   | 30g      | Soil (prepared)          | Antimony; Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Iron; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Thallium; Tin; Vanadium; Zinc; Chromium (VI) |                       |         |         |         |         |         |
| <b>13</b>   | 60ml     | Standard solution        | Chromium (VI)   |                       |         |         |         |         |         |

| Group B - Inorganics  |          |                   |   | Month and Rounds (CN) |         |         |         |         |         |
|---|----------|-------------------|---|-----------------------|---------|---------|---------|---------|---------|
| Sample  | Quantity | Supplied as       | Target Analyte(s)   | ALL                   | FEB 135 | APR 136 | JUL 137 | SEP 138 | NOV 139 |
| <b>Full participation</b> (Samples 3b, 6, 8, 10, 12, 16 and 17) |          |                   |   |                       |         |         |         |         |         |
| <b>Reduced participation</b> (Sample 3b only)                   |          |                   |   |                       |         |         |         |         |         |
| <b>3b</b>   | 150g     | Soil (prepared)   | Ammonia; Complex Cyanide; Free Cyanide; Total Cyanide; Dry Matter; Loss on Ignition; pH; Thiocyanate; Total sulfate; Easily liberated sulfide; Water soluble boron; Water soluble chloride; Water soluble fluoride; Water soluble sulfate; Total Sulfur |                       |         |         |         |         |         |
| <b>6</b>  | 60ml     | Standard solution | Total cyanide   |                       |         |         |         |         |         |
| <b>8</b>  | 60ml     | Standard solution | Total sulfate   |                       |         |         |         |         |         |
| <b>10</b>   | 60ml     | Standard solution | Water soluble boron   |                       |         |         |         |         |         |
| <b>12</b>   | 60ml     | Standard solution | Easily liberated sulfide  |                       |         |         |         |         |         |
| <b>16</b>   | 60ml     | Standard solution | Thiocyanate   |                       |         |         |         |         |         |
| <b>17</b>   | 60ml     | Standard solution | Total fluoride  |                       |         |         |         |         |         |

**\*\*Please note that a volume discount may apply to this price, depending on the number of Contaminated Land (CONTEST) PT Scheme samples purchased. Please see page 7 for further details.**

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| Group C - Organics   |            |                                     |   | Month and Rounds (CN) |         |         |         |         |         |
|--|------------|-------------------------------------|---|-----------------------|---------|---------|---------|---------|---------|
| Sample   | Quantity   | Supplied as                         | Target Analyte(s)   | ALL                   | FEB 135 | APR 136 | JUL 137 | SEP 138 | NOV 139 |
| <b>Full participation</b> (Samples 3c, 5, 7a, 7b, 11, 14a, 14b, 15, 19 and 20) |            |                                     |   |                       |         |         |         |         |         |
| <b>Reduced participation</b> (Sample 3c only)                                  |            |                                     |   |                       |         |         |         |         |         |
| <b>3c</b>  | 70g<br>1ml | Soil (prepared)<br>Spiking solution | Acenaphthene; Acenaphthylene; Anthracene; Benz(a)anthracene; Benzo(b)fluoranthene; Benzo(k)fluoranthene; Benzo(b/k)fluoranthene (sum); Benzo(ghi)perylene; Benz(a)pyrene; Chrysene; Dibenz(ah)anthracene; Fluoranthene; Fluorene; Indeno(123-cd)pyrene; Naphthalene; Phenanthrene; Pyrene; Total PAH; Phenols; Cresols; Xylenols; Distillable phenolic substances; PCB (28); PCB (52); PCB (101); PCB (118); PCB (138); PCB (153); PCB (180); Elemental sulfur; Total organic carbon; TPH (C10-C40 inclusive); TPH Aliphatic >C10-C12; TPH Aliphatic >C12-C16; TPH Aliphatic >C16-C21; TPH Aliphatic >C21-C35; TPH Aliphatic >C35-C40; TPH Aromatic >EC10-EC12; TPH Aromatic >EC12-EC16; TPH Aromatic >EC16-EC21; TPH Aromatic >EC21-EC35; TPH Aromatic >EC35-EC40; PCB (77) <b>NEW</b> |                       |         |         |         |         |         |
| <b>5</b>   | 2ml        | Standard solution                   | Acenaphthene; Acenaphthylene; Anthracene; Benz(a)anthracene; Benzo(b)fluoranthene; Benzo(k)fluoranthene; Benzo(b/k)fluoranthene (sum); Benzo(ghi)perylene; Benz(a)pyrene; Chrysene; Dibenz(ah)anthracene; Fluoranthene; Fluorene; Indeno(123-cd)pyrene; Naphthalene; Phenanthrene; Pyrene   |                       |         |         |         |         |         |
| <b>7a</b>  | 60ml       | Standard solution                   | Monohydric phenols  |                       |         |         |         |         |         |
| <b>7b</b>  | 2x2ml      | Standard solution                   | Total phenols (sum of phenol, cresols and xylenols); Total Cresols; Total Xylenols; Phenol  |                       |         |         |         |         |         |
| <b>11</b>  | 2ml        | Standard solution                   | PCB (28); PCB (52); PCB (101); PCB (118); PCB (138); PCB (153); PCB (180)   |                       |         |         |         |         |         |
| <b>14a</b>   | 2ml        | Standard solution                   | TPH, Range C10 – C40 (inclusive)  |                       |         |         |         |         |         |
| <b>14b</b>   | 2ml        | Standard solution                   | TPH, Aliphatic ≤C6; TPH, Aliphatic >C6-C8; TPH, Aliphatic >C8-C10; TPH, Aromatic C6; TPH, Aromatic >C6-C8; TPH, Aromatic >C8-C10  |                       |         |         |         |         |         |
| <b>15</b>  | 2ml        | Standard solution                   | Benzene; Toluene; Ethylbenzene; o-xylene; m + p-Xylenes   |                       |         |         |         |         |         |
| <b>19</b>  | 2ml        | Standard solution                   | 1,2,3-trichlorobenzene; 1,2,4-trichlorobenzene; 2-Chlorotoluene; 1,2-Dichloroethane; 1,2-Dichloroethene; Dichloromethane; Hexachloro-1,3-butadiene; 1,1,1,2-Tetrachloroethane; 1,1,1-Trichloroethane; Tetrachloromethane; Trichloroethene; Trichloromethane   |                       |         |         |         |         |         |
| <b>20</b>  | 2x10ml     | Standard solution & blank           | Six semi volatile organic compounds (SVOCs) - Qualitative   |                       |         |         |         |         |         |

| Group D - Leachate |          |                 |  | Month and Rounds (CN) |         |         |         |         |         |
|--------------------|----------|-----------------|--|-----------------------|---------|---------|---------|---------|---------|
| Sample             | Quantity | Supplied as     | Target Analyte(s)  | ALL                   | FEB 135 | APR 136 | JUL 137 | SEP 138 | NOV 139 |
| <b>18</b>          | 200g     | Soil (prepared) | Antimony; Arsenic; Barium; Cadmium; Calcium; Chromium; Copper; Iron; Lead; Magnesium; Mercury; Molybdenum; Nickel; Potassium; Selenium; Sodium; Tin; Zinc; Sulfate; Chloride; Fluoride; Nitrate; Boron; Chromium (VI); Phosphate; Ammonia; Free Cyanide; Total Cyanide; Thiocyanate; pH; Conductivity (20°C); COD; TOC/DOC; Phenol Index |                       |         |         |         |         |         |

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| Group E – WAC (Waste Acceptance Criteria) |          |   |   | Month and Rounds (CN) |         |         |         |         |         |
|---|----------|---|---|-----------------------|---------|---------|---------|---------|---------|
| Sample                                    | Quantity | Supplied as   | Target Analyte(s)   | ALL                   | FEB 135 | APR 136 | JUL 137 | SEP 138 | NOV 139 |
| 21  | 200g     | WAC material<br><b>CN135, CN137, CN139:</b> Moderate contamination<br><b>CN136:</b> High contamination<br><b>CN138:</b> Low contamination | Dry Matter Content Ratio; Antimony; Arsenic; Barium; Cadmium; Chromium; Copper; Lead; Mercury; Molybdenum; Nickel; Selenium; Zinc; Sulfate; Chloride; Fluoride; Phenol Index; DOC; Total Dissolved Solids |                       |         |         |         |         |         |
| 24*                                       | 1L       | Leachate (prepared)   | Antimony; Arsenic; Barium; Cadmium; Chromium; Copper; Lead; Mercury; Molybdenum; Nickel; Selenium; Zinc; Sulfate; Chloride; Fluoride; Phenol Index; DOC; Total Dissolved Solids                           |                       |         |         |         |         |         |

| Other Samples                         |            |                           |   | Month and Rounds (CN) |         |         |         |         |         |
|---------------------------------------|------------|---------------------------|---|-----------------------|---------|---------|---------|---------|---------|
| Sample                                | Quantity   | Supplied as               | Target Analyte(s)   | ALL                   | FEB 135 | APR 136 | JUL 137 | SEP 138 | NOV 139 |
| 23* Total Hydrocarbons in soil        | 1ml<br>30g | Standard solution<br>Soil | TPH, Aliphatic ≤C6; TPH, Aliphatic >C6-C8; TPH, Aliphatic >C8-C10; TPH, Aromatic C6; TPH, Aromatic >C6-C8; TPH, Aromatic >C8-C10  |                       |         |         |         |         |         |
| 25* VOCs in soil                      | 1ml<br>30g | Standard solution<br>Soil | Acetonitrile; Benzene; Bromobenzene; Bromochloromethane; Bromodichloromethane; Bromoform; Bromomethane; n-Butylbenzene; sec-Butylbenzene; tert-Butylbenzene; Carbon disulfide; Carbon tetrachloride; Chlorobenzene; Chloroethane; Chloroform; Chloromethane; 2-Chlorotoluene; 4-Chlorotoluene; cis-1,2-Dichloroethylene; Dibromochloromethane; 1,2-Dibromo-3-chloropropane; 1,2-Dibromoethane; Dibromomethane; 1,2-Dichlorobenzene; 1,3-Dichlorobenzene; 1,4-Dichlorobenzene; Dichlorodifluoromethane; 1,1-Dichloroethane; 1,2-Dichloroethane; 1,1-Dichloroethylene; trans-1,2-Dichloroethylene; 1,2-Dichloropropane; 1,3-Dichloropropane; 2,2-Dichloropropane; 1,1-Dichloropropylene; cis-1,3-Dichloropropylene; trans-1,3-Dichloropropylene; Ethylbenzene; Hexachlorobutadiene; Hexachloroethane; Isopropylbenzene; 4-Isopropyltoluene; Methylene chloride; Methyl t-butyl ether; m-Xylene; m&p-Xylene; Naphthalene; Nitrobenzene; n-Propylbenzene; o-Xylene; p-Xylene; Styrene; 1,1,1,2-Tetrachloroethane; 1,1,2,2-Tetrachloroethane; Tetrachloroethylene; Toluene; Total Xylenes; 1,2,3-Trichlorobenzene; 1,2,4-Trichlorobenzene; 1,1,1-Trichloroethane; 1,1,2-Trichloroethane; Trichloroethylene; Trichlorofluoromethane; 1,2,3-Trichloropropane |                       |         |         |         |         |         |
| 26* Organochlorine Pesticides in soil | 1ml<br>30g | Standard solution<br>Soil | Endrin; Dieldrin; Aldrin; p,p'-DDT; o,p-DDT; p,p'-DDE; p,p'-DDD; Alpha Hexachlorocyclohexane; Beta Hexachlorocyclohexane; Delta Hexachlorocyclohexane; Lindane (Gamma HCH); Trifluralin; Alpha Endosulphan; Beta Endosulphan; Hexachlorobenzene; Heptachlor; Heptachlor epoxide; Pentachlorobenzene   |                       |         |         |         |         |         |

\*Please note that these samples are not currently within the scope of LGC's UKAS accreditation.

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| Other Samples (continued)                      |            |                           |   | Month and Rounds (CN) |            |            |            |            |            |
|--|------------|---------------------------|---|-----------------------|------------|------------|------------|------------|------------|
| Sample   | Quantity   | Supplied as               | Target Analyte(s)   | ALL                   | FEB<br>135 | APR<br>136 | JUL<br>137 | SEP<br>138 | NOV<br>139 |
| <b>27*</b> LOI FINES                           | 1kg        | LOI material              | Loss on Ignition at 440oC   |                       |            |            |            |            |            |
| <b>28*</b> Soil Texture                        | 500g       | Soil                      | Soil texture  |                       |            |            |            |            |            |
| <b>29*</b> Incinerator Bottom Ash              | 200g       | IBA material              | Arsenic; Barium; Cadmium; Copper; Iron; Lead; Magnesium; Manganese; Nickel; Potassium; Sodium; Total Chromium; Zinc; pH; Alkali reserve   |                       |            |            |            |            |            |
| <b>30*</b> Organophosphorus Pesticides in soil | 1ml<br>30g | Standard solution<br>Soil | Azinphos-methyl; Azinphos-ethyl; Dichlorvos; Fenitrothion; Malathion; Mevinphos; Chlorfenvinphos; Diazinon; Fenthion; Parathion-ethyl; Parathion-methyl; Chlorpyrifos; Cypermethrin |                       |            |            |            |            |            |

\*Please note that these samples are not currently within the scope of LGC's UKAS accreditation.

\*\*Please note that a volume discount may apply to this price, depending on the number of Contaminated Land (CONTEST) PT Scheme samples purchased. Please see page 7 for further details.

Please further note: soil samples do not always contain measurable concentrations of all analytes as listed in every round

**For details on the full technical specification of the scheme, please refer to the CONTEST Scheme Description.**

## YOUR DETAILS

Returning customers, if you would like to keep your details as per previous year, please tick here:

☐

If changes are required or you are a new customer, please complete your details below:

| Send Test Materials to: | Send Invoices to: |
|-------------------------|-------------------|
| Contact name:           | Contact name:     |
| Department:             | Department:       |
| Company:                | Company:          |
| Address:                | Address:          |
| Town/City:              | Town/City:        |
| Post/Zip Code:          | Post/Zip Code:    |
| Country:                | Country:          |
| Tel:                    | Tel:              |
| E-mail:                 | E-mail:           |
|                         | VAT no:           |

### **Existing customers**

If you would like to change your marketing preferences, please visit our [preference centre](#) or contact [axiopt@lgcgroup.com](mailto:axiopt@lgcgroup.com)

### **New customers**

LGC would like to contact you by email, phone or post about its products, services and related areas or research. LGC does not sell contact details to external parties. You may unsubscribe at any time.

- ☐ Yes, I am happy to be contacted about LGC's products, services and research
- ☐ No, I do not require marketing information about LGC's products and services at this time

By signing this application form, you are agreeing to comply by LGC's Standard Terms and Conditions for the Supply of Laboratory Quality Products and Services and are agreeing that you have read and agree to the 'General Notes' at the end of this document.

Name .....

Date .....

### VOLUME QUANTITY DISCOUNT

Please note that any additional/duplicate samples ordered will not contribute to the calculation of volume discount, but will be charged at a lower rate (see Repeat/Additional samples section).

| Total number of groups ordered per annum* | Discounts |
|---|-----------|
| 0-4                                       | 0.0%      |
| 5-9                                       | 2.5%      |
| 10-14                                     | 5.0%      |
| 15-9                                      | 15.0%     |
| 20+                                       | 25.0%     |

\*For example, a lab participating in four groups in all five rounds will be taking 20 groups in total; therefore, will qualify for a 25% discount.

Please note that duplicate samples (or individual samples purchased from groups A-C) will not contribute to the calculation of volume discount.

### REPEAT/ADDITIONAL SAMPLES PRICES

Additional Full groups will be charged at 50% of the cost of the group.  
For individual samples, please contact LGC for a quotation.

| Round | Group A |    |    |    |   |    | Group B |   |   |    |    |    |    | Group C |   |    |    |    |     |     |    |    |    |
|-------|---------|----|----|----|---|----|---------|---|---|----|----|----|----|---------|---|----|----|----|-----|-----|----|----|----|
|       | 3a      | 1a | 1b | 1c | 2 | 13 | 3b      | 6 | 8 | 10 | 12 | 16 | 17 | 3c      | 5 | 7a | 7b | 11 | 14a | 14b | 15 | 19 | 20 |
| CN135 |         |    |    |    |   |    |         |   |   |    |    |    |    |         |   |    |    |    |     |     |    |    |    |
| CN136 |         |    |    |    |   |    |         |   |   |    |    |    |    |         |   |    |    |    |     |     |    |    |    |
| CN137 |         |    |    |    |   |    |         |   |   |    |    |    |    |         |   |    |    |    |     |     |    |    |    |
| CN138 |         |    |    |    |   |    |         |   |   |    |    |    |    |         |   |    |    |    |     |     |    |    |    |
| CN139 |         |    |    |    |   |    |         |   |   |    |    |    |    |         |   |    |    |    |     |     |    |    |    |

### CARRIAGE CHARGES

Participants will pay an additional fee to cover courier charges. Please contact LGC AXIO Proficiency Testing for up-to-date charges.

### CHANGES AND OTHER SCHEMES/SAMPLES OF INTEREST

#### CHANGES

We have introduced a new analyte as follows:

- PCB (77) into sample 3C (Organics)

#### OTHER SCHEMES/SAMPLES OF INTEREST

We have a number of other Water and Environment schemes available which may be of interest to you. Further details can be found on our web page <https://www.lgcstandards.com/GB/en/Proficiency-Testing/Water-and-Environment-Schemes/cat/280826>

### GENERAL NOTES

Please note:

- Please contact LGC AXIO Proficiency Testing for prices.
- VAT (charged at the prevailing rate) is payable by all participants based in the UK.
- Participants will pay an additional fee to cover courier charges. Please contact LGC AXIO Proficiency Testing for up-to-date charges (where not specified previously in the application form).
- All courier charges set by LGC AXIO Proficiency Testing do not include local import charges, taxes (etc.), which will be covered by the participant.
- Do not send remittance with this form, you will be invoiced subsequently after the despatch of each round.
- No refunds will be given for failure to take part in any round of the PT scheme.
- LGC AXIO Proficiency Testing reserves the right to not send samples or the report for previous samples to any participant that has not paid their subscriptions within the terms stated on the invoice.
- LGC AXIO Proficiency Testing cannot guarantee the number of participants that will return results for any particular parameter in each round.
- The prices stated are for reporting results and receiving reports electronically via PORTAL (internet reporting).
- Surplus PT samples (Quality Control Material) are available; please contact LGC AXIO Proficiency Testing for further information.
- By signing this application form, you are agreeing to comply by LGC's Standard Terms and Conditions for the Supply of Laboratory Quality Products and Services. Furthermore, for test samples containing microorganisms with a bio safety level (BSL) of 1 or 2, you are confirming that you are complying with applicable laws and regulations when using such materials.