



Department  
for Environment  
Food & Rural Affairs

**Order Form – Contract for Research and Development Goods and/or Services**

<b>Contract Title</b>	Antimicrobial resistance (AMR) in our waters understanding risks to human and environmental health
<b>1. Purchase Order Number</b>	To be provided once contract is in place
<b>2. Customer</b>	Environment Agency Horizon House, Deanery Road, Bristol, BS1 5TL
<b>3. Contractor(s)</b>	Resistomap Oy Elimäenkatu, 15 00510, Helsinki, FINLAND  Business ID: 2921012-4
<b>4. Co-Funder(s)</b>	N/A
<b>5. Defra Group Members</b>	The following Defra Group members will receive the benefit of the Deliverables: N/A
<b>6. The Agreement</b>	<p>This Order is part of the Agreement and is subject to the terms and conditions appended at Appendix 1 and shall come into effect on the Start Date.</p> <p>Unless the context otherwise requires, capitalised expressions used in this Order have the same meanings as in the terms and conditions.</p> <p>The following documents are incorporated into the Agreement. If there is any conflict, the following order of precedence applies (in descending order):</p> <ul style="list-style-type: none"><li>a) this Order;</li><li>b) the terms and conditions at Appendix 1; and</li><li>c) the remaining Appendices (if any) in equal order of precedence.</li></ul>
<b>7. Deliverables</b>	<b>Goods:</b> N/A



<b>15. Contractor's Authorised Representative</b>	For general liaison your contact will continue to be  ██████████ ████████████████████  ██████████████████  ██████████████████ ████████████████████								
<b>16. Co-funder's Authorised Representative</b>	N/A								
<b>17. Optional Intellectual Property Rights ("IPR") Clauses</b>	The Customer has chosen Option <b>B</b> in respect of intellectual property rights provisions for the Agreement as set out in the terms and conditions.								
<b>18. Contractor's general liability cap</b>	The liability of the Contractor as set out in Clause 16.2.1 of the terms and conditions is limited to the greater of: (a) an amount equal to 150% of the charges paid or payable to the contractor, and (b) £5M								
<b>19. Progress Meetings and Progress Reports</b>	The Contractor shall provide the Customer with progress reports when samples are being processed & analysed and checked for QA to notify QA'ed results are available.								
<b>20. Address for notices</b>	<table border="0" style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"><b>Customer:</b></td> <td style="width: 50%; vertical-align: top;"><b>Contractor:</b></td> </tr> <tr> <td>██████████ ██████████████ ██████████ ██████ ██████████  ██████████████████  ██████ ██████████████████ ██████████</td> <td>██████████ ██████████████ ██████████ ██████████ ██████  ██████████████████  ██████ ██████████████████ ██████████</td> </tr> <tr> <td colspan="2" style="vertical-align: top;"><b>Co-funder(s):</b> N/A</td> </tr> </table>			<b>Customer:</b>	<b>Contractor:</b>	██████████ ██████████████ ██████████ ██████ ██████████  ██████████████████  ██████ ██████████████████ ██████████	██████████ ██████████████ ██████████ ██████████ ██████  ██████████████████  ██████ ██████████████████ ██████████	<b>Co-funder(s):</b> N/A	
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<b>Co-funder(s):</b> N/A									
<b>21. Key Personnel of the Contractor</b>	<b>Key Personnel Role:</b>  Contractor's Project Manager	<b>Key Personnel Name:</b>  ██████████	<b>Contact Details:</b>  ██████████████ ██████████████ ██████████ ██████████						

		<p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p>
<b>22. Procedures and Policies</b>		<p>For the purposes of the Agreement:</p> <p>The Customer's protection and security requirements are contained in Clause 15. Protection and security of data of the Research and Development Terms and Conditions.</p> <p>The Customer's sustainability policy can be found at:</p> <p><a href="http://www.gov.uk">Our energy use - Environment Agency - GOV.UK (www.gov.uk)</a></p> <p>The Customer's equality and diversity policy can be found at:</p> <p><a href="http://www.gov.uk">Equality and diversity - Environment Agency - GOV.UK (www.gov.uk)</a></p>
<b>23. Commercial Exploitation (Clause 11)</b>		<p>Clause 11 (Commercial Exploitation) shall apply to this Agreement:</p> <p><b>Yes:</b> <input type="checkbox"/></p> <p><b>No:</b> <input checked="" type="checkbox"/></p>
<b>24. Special Terms</b>		N/A
<b>25. Additional Insurance</b>		N/A
<b>26. Further Data Protection Provisions</b>		<p>The further data protection provisions as contained at Annex 1 of the Terms and Conditions are applicable to this Agreement where indicated below:</p> <p><b>Yes:</b> <input type="checkbox"/></p> <p><b>No:</b> <input checked="" type="checkbox"/></p>

Signed for and on behalf of the <b>Customer</b>	Signed for and on behalf of the <b>Contractor</b>

**Appendix 1: R&D Terms and Conditions**

The terms and conditions applicable to this requirement can be found on the website below

[Research and development terms and conditions - GOV.UK \(www.gov.uk\)](https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/115422/research-and-development-terms-and-conditions-2017.pdf)

## Appendix 2: Specification/Description

Assessment of the presence of aquatic antimicrobial resistance (AMR) across England.

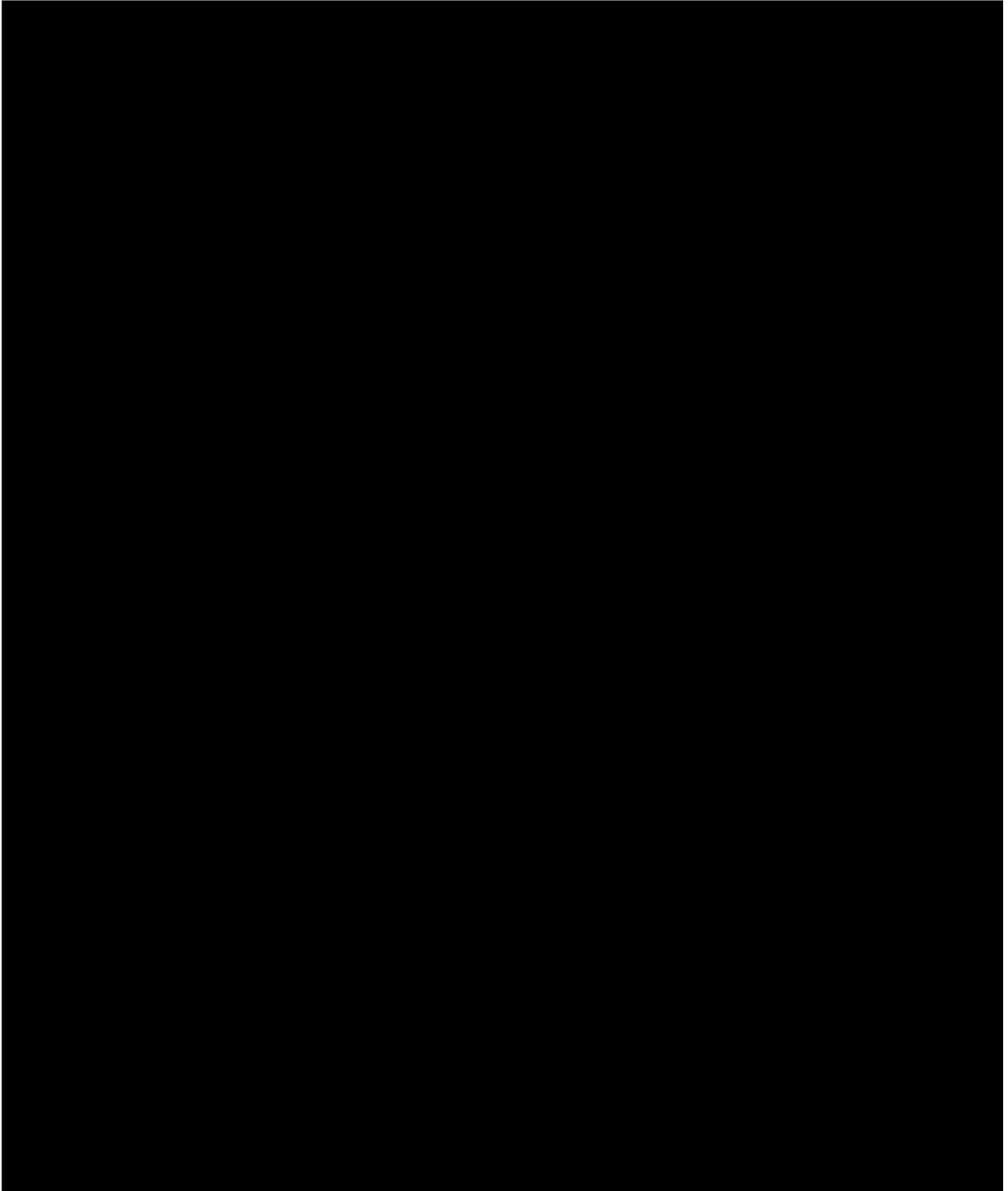
Antimicrobial resistance (AMR) is a significant global concern. Historically it has been seen predominately as a healthcare issue, but recently it has been recognised that the environment is a key pathway for the development and movement of AMR. The Environment Agency led a workstream on the cross-government PATH-SAFE project to develop surveillance techniques to monitor AMR in the environment on a pilot scale.

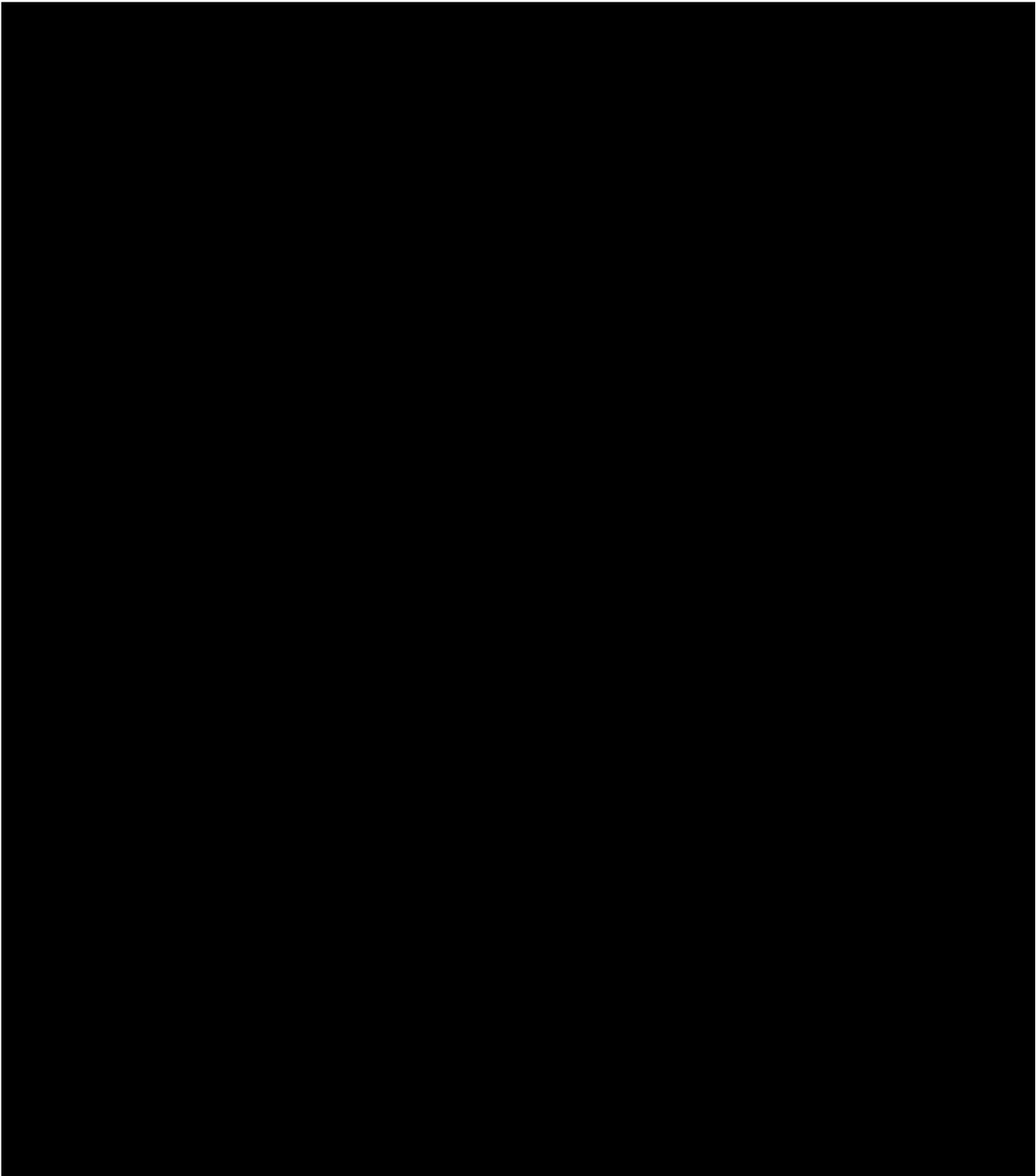
There are also emerging concerns about exposure to waterborne pathogens during water recreation, especially those which may not follow the faecal-oral route and therefore may not correlate with conventional faecal indicator organisms measured at designated bathing waters.

The contract being procured will conduct high throughput qPCR analyses for up to 54 markers (per sample) on eDNA samples provided from environmental samples. Samples will be taken and analysed from two research projects in separate work packages:

- 1) The first work package (A) is to understand the spatial presence and distribution of antimicrobial resistance (AMR) in the aquatic environment across in England. This research work will continue to support the commitments of the UK AMR National Action Plan 'explore ways of using UK surveillance data to better understand AMR transmission pathways between animals, environment, and humans' as it will provide vital data from the environment, which thus far is often either missing or patchy/ only available for localised areas (e.g., such as through the three river catchment pilot study).
- 2) Work package B is being conducted alongside work package A with a focused study around the river Trent following on from previous pilot studies.
- 3) Work package C is focused on analysis of eDNA of stored bathing water samples from 2023. These samples will be primarily analysed for waterborne pathogen markers as well as some pollution markers, microbial source tracking and AMR markers.

## Appendix 3: Charges





 Eimäenkatu 15, 00510 Helsinki, Finland

 [info@resistomap.com](mailto:info@resistomap.com)

 +358442490186

## **Appendix 4: Processing Personal Data**

**Authorised Processing Template - N/A**