

**Sending samples for Trace Metal Analysis**

**INTRODUCTION**

Modern Water will analyse samples to test their suitability for online analysis with our OVA instruments. Samples can only be sent with the permission of Modern Water, and must be accompanied with a completed questionnaire form.

Modern Water must be informed of any hazardous properties of the sample before it is sent.

**PROCEDURE**

Sample solutions must be stabilised by acidifying to a pH of 2 or less. Add incremental small amounts of either Hydrochloric acid or Nitric acid. After each addition of acid mix the solution and check the pH.

Record how much acid was added and pass this information onto Modern Water. The table at the end of this document can be used for this.

Samples for Chromium VI analysis are an exception and must not be acidified. They are to be sent without stabilising. If the analysis of Chromium VI and other metals is required, two samples must be sent, one stabilised with acid and one not.

One litre of each sample is the usually adequate; this can be discussed with the technical support manager.

Samples should be sent in plastic bottles, preferably HDPE, with a plastic screw top. The sample bottle should be left on its side for 30 minutes to see if the top leaks before it is packaged for shipping.

Each bottle must be labelled with the sample name, reference number and date sampled.

Please contact your technical support manager to get the address that the samples are to be sent to.

Sample name					
Reference Number					
Original pH					
Amount of Acid added					
Final pH					
Comments					

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If you have been asked to ship your samples to our facility in **Australia**. Please ship according to the instructions on the next page.

Australia has stringent rules on the import of water samples and will not allow water samples that may have biological activity to be sent.

Industrial waste samples can be sent, but you must declare that they are 'Industrial process samples for analysis' and that they contain no biological activity, describe the industrial process from which the sample has been taken and the metal concentrations.

For natural water samples the biological activity must be killed, usually by the addition of acid (acidify to a pH of 1) before these samples can be shipped. The sender must declare that the samples have had all biological activity destroyed, describe them as 'Water samples treated with xxx acid to kill all biological activity' and what metals are required.