

White soil pots for soil/solids:



To be used for:	Minimum
Gross alpha/beta	5g
Gamma spectrometry	200g
Calcium-45	5g
Iodine-129	10g
Iron-55	5g
Nickel-63	5g
Plutonium alpha	5g
Plutonium-241	5g
Uranium isotopes	5g
Americium, curium	5g
Thorium isotopes	5g
Radium-226	5g
Strontium-90	5g
Technetium-99	5g
Polonium-210	5g

NIRAS crates



NIRAS crates and cool boxes are supplied free of charge, but will be charged at £15 per cool box and £20 per crate if not returned at time of invoicing.:

250ml brown plastic bottle for waters/liquids:



To be used for:	Minimum required
Aqueous tritium	250ml
Carbon-14	250ml

Please note that samples to be analysed for tritium and carbon-14 should be kept chilled for as long as possible.

Please contact the laboratory directly prior to sampling for radon analysis as specific methods and preservation are required.

1 litre amber glass jar for soil/solids, amber glass bottle for waters/liquids:



To be used for:	Minimum required
Tritium in solids	6g/250ml
Carbon-14	6g/250ml

Plastic Bottles (250ml, 500ml, 2.5ltr and 5ltr) for waters/liquids:



Note- If iodine isotopes are included in the gamma spectrometry suite, do not acidify the sample.

To be used for:	Minimum required
Gross alpha/beta	2 litres *
Gamma spectrometry	1 litre *
Calcium-45	1.5 litres
Iodine-129	100ml
Iron-55	1 litre *
Nickel-63	1 litre *
Plutonium alpha isotopes	1 litre *
Plutonium-241	1 litre *
Uranium isotopes	1 litre *
Americium, curium isotopes	1 litre *
Thorium isotopes	1 litre *
Radium-226	1 litre *
Alpha spectrometry	1 litre *
Strontium-90	1 litre *
Technetium-99	1 litre
Polonium-210	1 litre *

* For these analyses samples may be filtered and acidified by the client at time of collection. Use 10ml conc nitric acid per litre of sample. If unfiltered DO NOT acidify and dispatch to NIRAS asap after collection.

CHEMICAL ANALYSIS

Glass bottles/jars for soil/solids and waters/liquids:



To be used for:	Minimum required:
PAH USEPA 16	10g/250ml
Phenols	10g/500ml
SVOCs	10g/500ml
TPH	10g/250ml
TPH ali/aro split	10g/250ml + 40ml vial
PCBs	10g/500ml
Dioxins & Furans	10g/5 litres
Organo pesticides	10g/500ml

Glass bottles/jars can be used for any samples for chemical analysis of water/liquids as well as soil/solids if no plastic bottles are available for some analysis, but glass bottles must be used if you are sampling for analysis of any of the above.

TPH analysis to drinking water LoD requires 1litre of sample.

40ml Glass vial for soil/solids and water/liquids:



To be used for:	Minimum required:
BTEX MTBE GRO	full 40ml vial
VOCs	full 40ml vial
TPH ali/aro split	full 40ml vial

Plastic Bottles (250ml, 500ml, 2.5ltr, 5ltr) for waters/liquids and soil/solids:



To be used for:	Minimum required:
Ammonia	20g/10ml
Chloride	10g/10ml
Cyanide	10g/50ml
Leachate preparation	100g
Chromium Hexavalent	20g/10ml
Metals *	10g/200ml
Sulphate (total)	10g/50ml
Sulphate (2:1)	20g
Alkalinity	50ml
Electrical conductivity	10ml
Moisture content	100g
Nitrate	10g/10ml
Nitrite	10g/10ml
Fluoride	10g/10ml
Organic matter	10g
Phosphorous	5g/50ml
Sulphur	10g
Kjeldahl nitrogen	20g/50ml
Suspended solids	300ml
TOC	1g/10ml
Tolex	10g/100ml
PAH screen	10g

Please send samples to the following address:

NIRAS
AMEC NNC Limited.
Sample Receipt
The Solutions Centre
612 Faraday Street
Birchwood Park
Warrington
Cheshire
WA3 6GN

Notes for sampling

◆Please be aware that for chemical analysis, samples should be provided in an approved form and container. The laboratory will not be liable for inability to complete testing due to inadequate and/or unsuitable samples.

◆It is intended that for chemical analysis, sample preparation will be performed by SAL Ltd, where appropriate by air-drying the sample. However, if the samples received contain significant quantities of rubble, large pebbles or stones this fraction may have to be excluded from analysis (% fraction removed will be reported) and drying and grinding will be performed by NIRAS. Sample preparation prices are included for this process if it is deemed necessary on receipt.

◆It is advisable to send more than the minimum required amount of sample in order to allow for contingencies.

If in doubt about sample containers or preservation, please call your programme manager prior to sending samples