

Characterisation of Samples to Support the Height Reduction of Trawsfynydd Reactor Buildings.

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Sample Condition: Satisfactory, cold (16.6°C, 5.0°C, and 6.3°C respectively for the shipment on 6 October 2022, 26 October 2022, and 21 August 2023)

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Report History

Report Issue	Date	Initials	Comments
Test Report 22-0975 issue 1	24 May 2023	JH	Initial issue
Test Report 22-0975 issue 2	18 April 2024	JH	Phase 2 data added
Test Report 22-0975 issue 3	30 April 2024	JH	Grammatical update and ¹²⁹ I & Thorium results amended

An electronic data report in MS Excel format titled "WP4589 height reduction results NSG-Magnox" issue 18 is available.

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1 INTRODUCTION

1.1 Project overview and Scope of Work

The reactor buildings at Trawsfynydd Decommissioning Site are due to be height reduced in preparation for the construction of a new weather envelope. Characterisation of the impacted areas is required to inform the approach to removal of the built structures and management of the resulting materials. A series of samples have been obtained from various parts of the reactor buildings structure, including concrete, metalwork, paint and roofing felt.

The objective of the work was to undertake physical, chemical and radiological characterisation of these samples. Through the analysis of these samples Magnox wanted to understand whether those structures may be considered Out of Scope for management as radioactive materials under the Environmental Permitting Regulations 2016 and as amended. Magnox also wanted to understand the significance of any hazardous properties which may be present in respect of the onward routing of those materials.

Detailed analyses requirements are set-out in project 1MXN-3TRAW-4589-SEI-W-6518; **“Appendix 5 - Height reduction project ASOW_Issue 1: Technical Scope of Work for the Characterisation of Samples to Support the Height Reduction of Trawsfynydd Reactor Buildings.”**

This report contains the results of these tests and describes the methods applied to derive the test results. It includes the minor amendments of the initial analytical plan, arisen during the course of the projects when data became available (published in an MS Excel format titled “WP4589 height reduction results NSG-Magnox” issue 1 through 17, with a final, QC checked issue 18).

This report is accompanied by the following additional documents:

1. Electronic data report in MS Excel format titled “WP4589 height reduction results NSG-Magnox” issue 18.
2. Photographs of the samples in several separate documents:
 - a. 22-0975 Photos in depth.pdf
 - b. 22-0976 Photos in depth.pdf
 - c. 22-0977 Photos in depth.pdf
 - d. 22-1054 Photos in depth.pdf
 - e. 22-1057 Photos in depth.pdf
 - f. 22-1058 Photos in depth.pdf
 - g. 23-0814 Photos in depth.pdf

2 SAMPLES AND ANALYSES OVERVIEW

2.1 Schematic overview of the analytical process

Error! Reference source not found. to Figure 5 gives an overview of the subsampling, pretreatment and analyses for each matrix.

All samples underwent a physical assessment comprising a visual appearance description or digital photograph; sample weight received; dose rate of the samples; count rate using a DP6 contamination monitor; and a basic quick check on the presence of asbestos.

For the oil samples, the density was determined by weighing a known volume of oil.

The samples also underwent a radiochemical and chemical assessment:

- All samples: High Resolution Gamma Spectrometry (HRGS)
- All samples: Analysis for gross alpha and beta activity, referenced to ²⁴¹Am as the alpha calibrant; ⁶⁰Co and ¹⁴C as beta calibrants respectively.
- All samples: ³H and ¹⁴C using a pyrolysis technique.

- Roofing felt samples (4 samples): Total and speciated Polycyclic Aromatic Hydrocarbon compounds (EPA PAH16) including Benzo(a)pyrene (CAS 50-32-8), Coronene, Phenol, Cresol
- Concrete samples
 - (14 samples): Total Petroleum Hydrocarbons (TPH) (C6-C40), Benzo(a)pyrene.
 - (10 samples): Acid soluble sulphates
- Oil (4 samples): Total Petroleum Hydrocarbons (TPH) (C6-C40), Benzo(a)pyrene
- Paint scrapings:
 - (10+2 samples): Lead (Pb)
 - (4 samples): Total Petroleum Hydrocarbons (TPH) (C6-C40) ; Total and speciated Polycyclic Aromatic Hydrocarbon compounds (EPA PAH16)

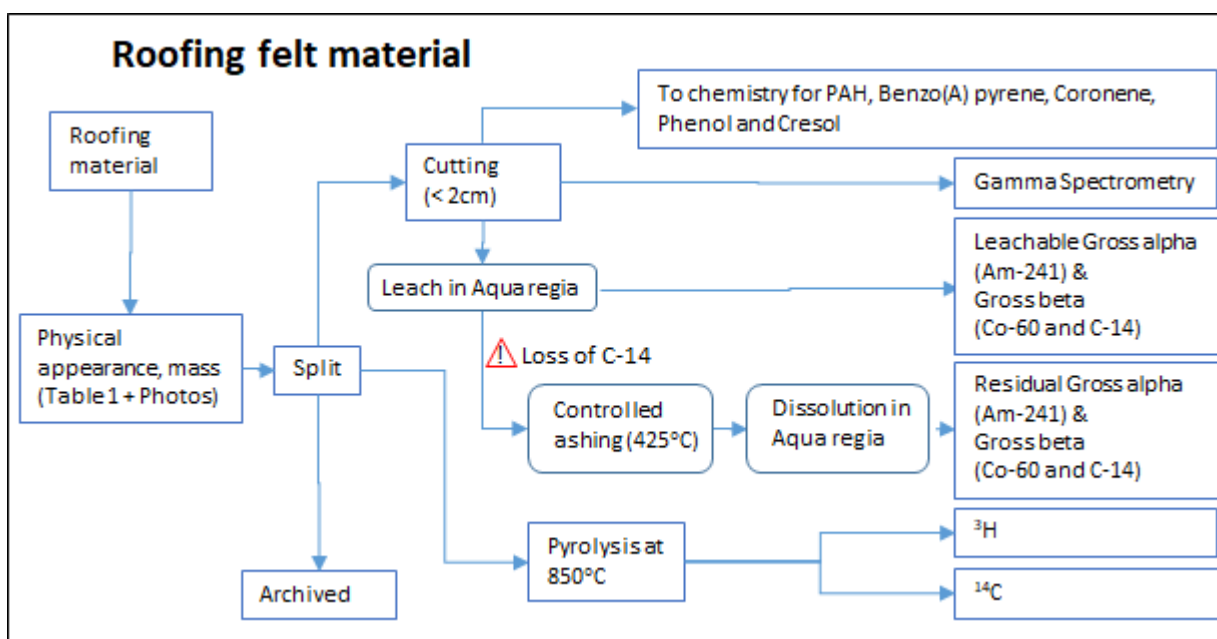


Figure 1. Sample flow for the roofing felt samples for physical, chemical and radiochemical analyses.

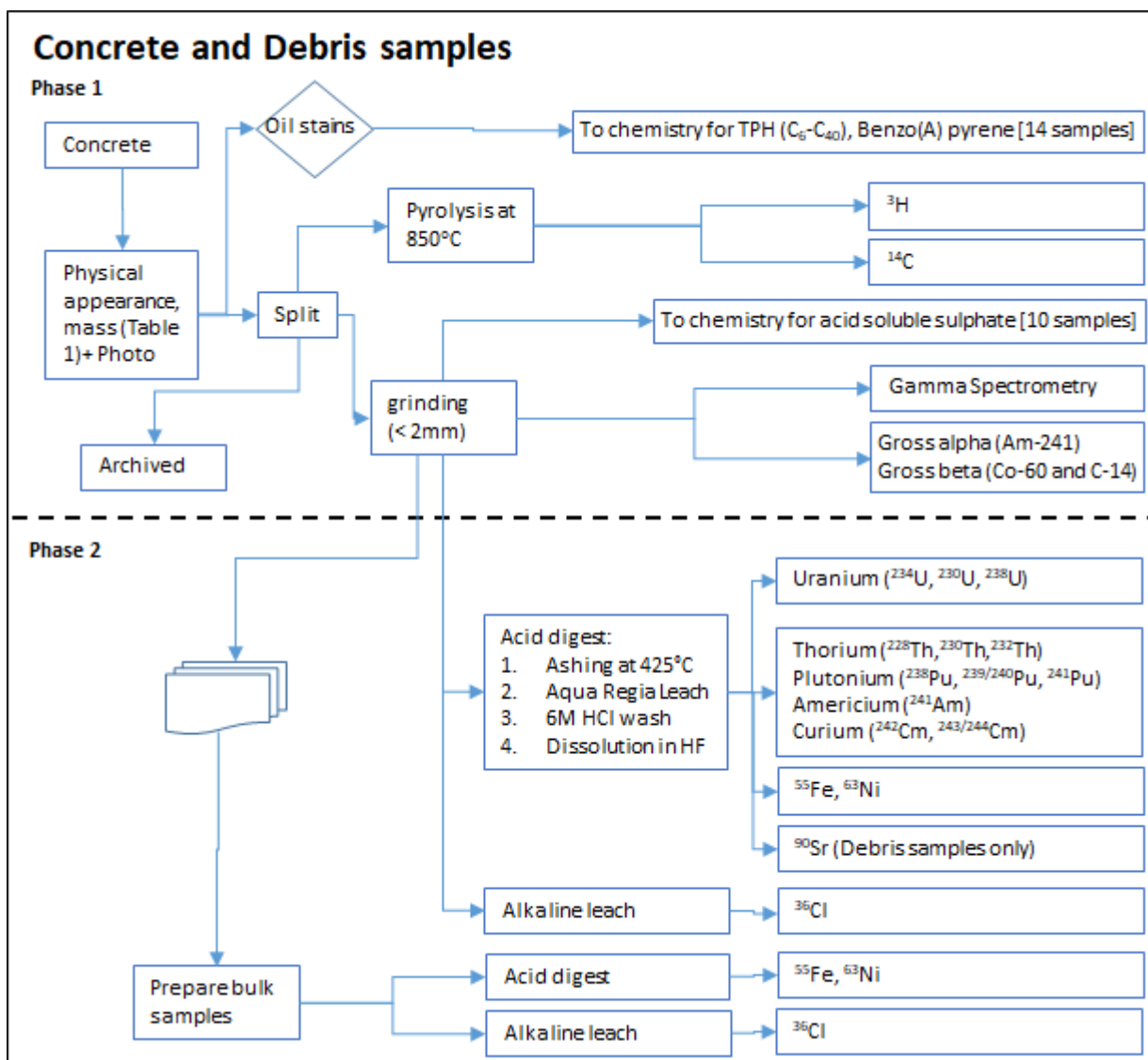


Figure 2. Sample flow for the concrete samples for physical, chemical and radiochemical analyses. A selected set of samples was submitted for the phase 2 analysis, either analysed as single samples or combined with other samples to form a bulk sample.

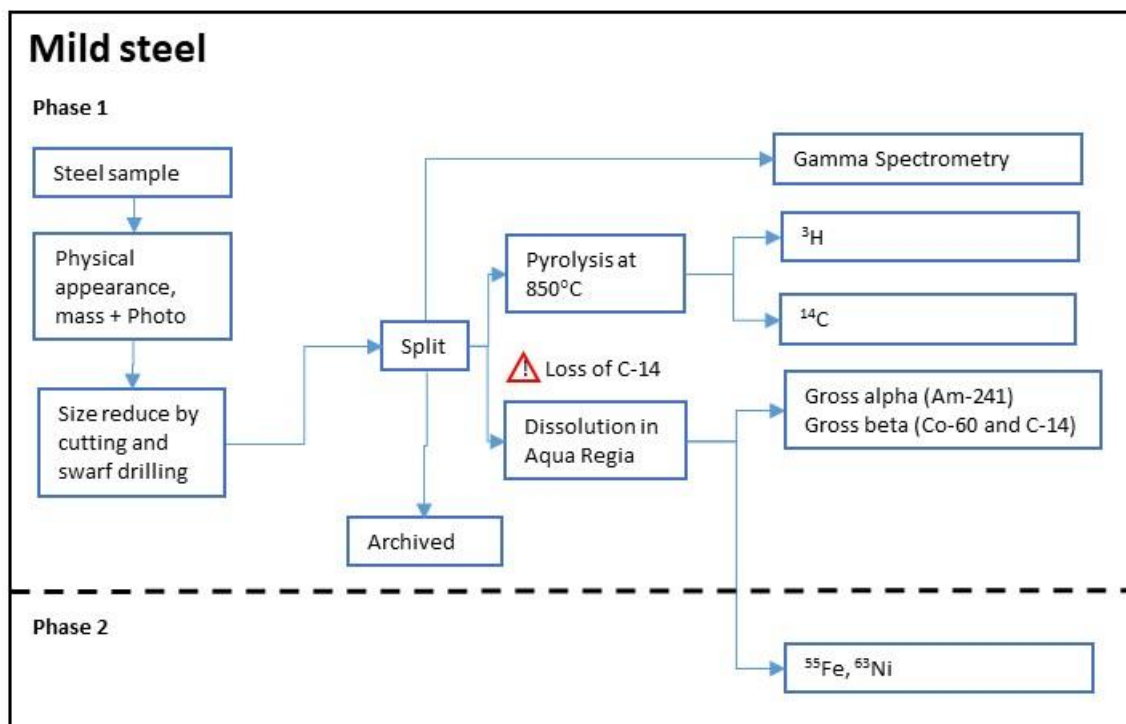


Figure 3. Sample flow for the mild steel samples for physical, chemical and radiochemical analyses. A selected set of samples was submitted for the ^{55}Fe and ^{63}Ni analysis in phase 2.

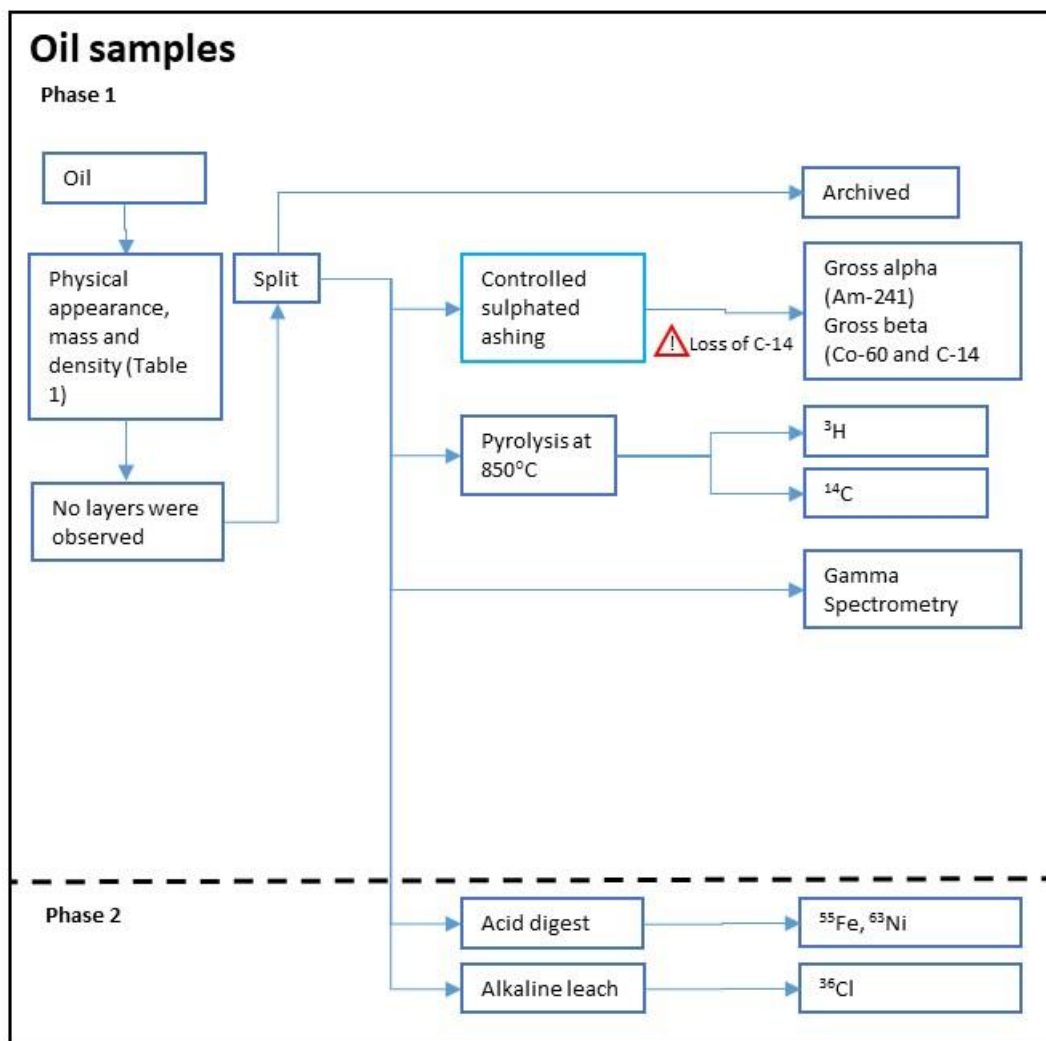


Figure 4. Sample flow for the oil samples for physical, chemical and radiochemical analyses.

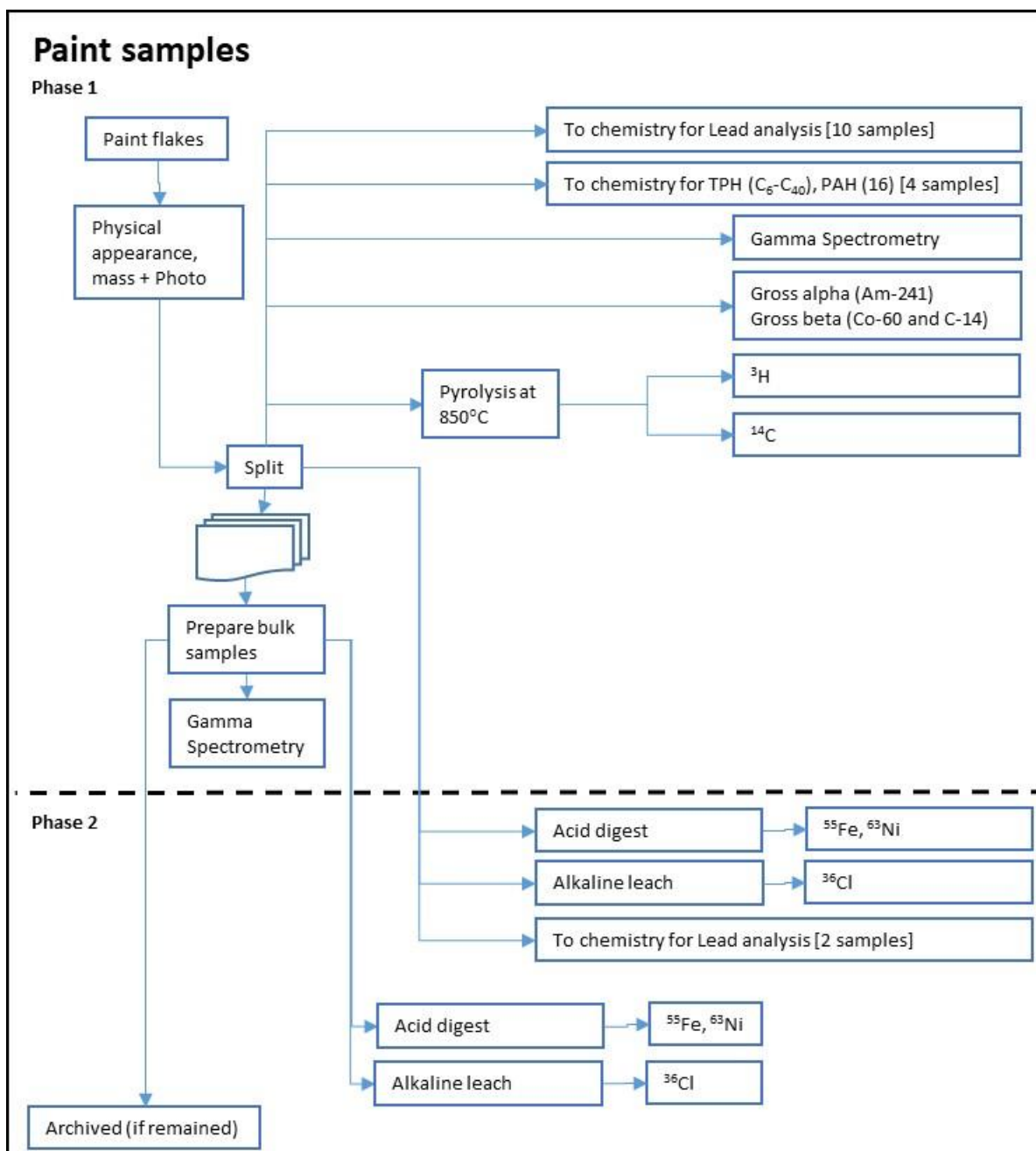


Figure 5. Sample flow for the paint scraping samples for physical, chemical and radiochemical analyses. A selected set of samples was submitted for the phase 2 analysis, either analysed as single samples or combined with other samples to form a bulk sample.

2.2 Physical assessment

All samples underwent a physical assessment:

- As-received sample visual appearance including digital photography
- Sample weight of as received samples
- Dose rate of the samples.
- Count rate using a DP6 contamination monitor
- A basic quick check on the presence of asbestos fibres was part of the sample inspection. This is a basic health and safety check at our laboratory, even when samples are believed free of asbestos fibres. If asbestos is suspected, a validated, certified test is performed after informing the client. This is standard practice for all samples that arrive at SOCOTEC.
- For the oil samples the density was determined by weighing a known volume of oil.

Results for the physical assessment including the photos are presented in the following additional documents and a summary, including reference to the photos, is given Table 2 on page 20:

- 22-0975 Photos in depth
- 22-0976 Photos in depth
- 22-0977 Photos in depth
- 22-1054 Photos in depth
- 22-1057 Photos in depth
- 22-1058 Photos in depth
- 23-0814 Photos in depth

The density of the oils received are presented in Table 23 on page 198

2.3 Subsampling and preparation phase 1 analysis

2.3.1 Subsampling and preparation of (bitumen) roofing felt samples

The roofing felt samples contained, to a variable degree, (composed) timber support and bitumen felt. In discussion with Magnox the bitumen part was selected as the part of interest for analysis.

The felt samples were cut into coarse pieces. This coarsely cut material was split into three portions (see Figure 1, page 4). One portion was frozen for archiving.

The second portion was used for the ^3H and ^{14}C analysis (see Table 5, page 55).

The third portion was cut into small (less than 2 cm) pieces, and split into three portions 3A, 3B, and 3C.

Portion 3A was shipped to the chemistry lab for the analysis of:

- Moisture content and PAH compounds Acenaphthene, Acenaphthylene, Anthracene, Benzo[a]-anthracene, Benzo[a]-pyrene, Benzo[b]-fluoranthene, Benzo[g,h,i]-perylene (see Table 16, page 192)
- PAH compounds Benzo[k]-fluoranthene, Chrysene, Coronene, Dibenzo[a,h]-anthracene, Fluoranthene, Fluorene, Indeno[1,2,3-cd]-pyrene, Naphthalene, (see Table 17, page 192)
- Total PAH and Phenols concentration and PAH compounds Phenanthrene and Pyrene and the phenols split into Trimethyl-phenols, Dimethyl-phenols, Methyl-phenols, Phenol (Table 18, page 193).

Portion 3B was analysed for the gamma emitters:

- ^7Be , ^{40}K , from the ^{235}U decay series; ^{235}U and ^{231}Pa (see Table 5, page 55)
- from the ^{232}Th decay series; ^{228}Ra , ^{228}Ac , ^{212}Pb , ^{212}Bi , ^{208}Tl (see Table 6, page 71)
- from the ^{238}U decay series; ^{234}Th , $^{234\text{m}}\text{Pa}$, ^{226}Ra , ^{214}Pb , ^{214}Bi , ^{210}Pb (see Table 7, page 87)
- ^{54}Mn , ^{59}Fe , ^{57}Co , ^{58}Co , ^{60}Co , ^{65}Zn (see Table 8, page 105)
- ^{95}Zr , ^{94}Nb , ^{95}Nb , ^{106}Ru , ^{106}Rh , $^{108\text{m}}\text{Ag}$ (see Table 9, page 122)
- $^{110\text{m}}\text{Ag}$, ^{124}Sb , ^{125}Sb , ^{129}I , ^{131}I , ^{134}Cs (see Table 10, page 139)
- ^{137}Cs , ^{133}Ba , ^{144}Ce , ^{152}Eu , ^{154}Eu , ^{155}Eu (see Table 11, page 156)
- ^{239}Np , ^{241}Am , and from the ^{237}Np decay series; ^{237}Np and ^{233}Pa (see Table 12, page 173).

Portion 3C was leached in warm Aqua Regia, filtered and the gross alpha radioactivity (as ^{241}Am equivalent) and the gross beta radioactivity (as both ^{60}Co and ^{14}C equivalent) measured as leachable activity (see Table 3, page 40). The residue was ashed at 425°C (temperature set low to avoid loss of ^{137}Cs) and this ash was dissolved in Aqua Regia. The gross alpha radioactivity (as ^{241}Am equivalent) and the gross beta activity (as both ^{60}Co and ^{14}C equivalent) was measured as residual activity (see Table 3, page 40). Note that ^{14}C and ^{36}Cl are lost in this procedure.

2.3.2 Subsampling and digestion of concrete and debris samples

The concrete samples were assessed and, in discussion with Magnox, it was decided that the whole pieces of concrete were considered as most representative and were subsampled. Some sample pots also contained loose aggregate or loose cement (see the Visual inspection reports and Table 2, page 20 for a cross reference).

The concrete samples were reduced in size to smaller pieces (around 1 to 2 cm) by a blow of a lump hammer. This coarsely cut material was split into three portions (see Figure 2, page 5). One portion was frozen for archiving.

The second portion was used for the ^3H and ^{14}C analysis (see Table 5, page 55).

The third portion was ground to < 2mm, and split into three sub portions 3A, 3B, and 3C.

Portion 3A was shipped to the chemistry lab for the analysis of moisture content and acid soluble sulphate concentration (Table 19, page 194).

Portion 3B was analysed for the gamma emitters:

- ^7Be , ^{40}K , from the ^{235}U decay series; ^{235}U and ^{231}Pa (see Table 5, page 55)
- from the ^{232}Th decay series; ^{228}Ra , ^{228}Ac , ^{212}Pb , ^{212}Bi , ^{208}Tl (see Table 6, page 71)
- from the ^{238}U decay series; ^{234}Th , $^{234\text{m}}\text{Pa}$, ^{226}Ra , ^{214}Pb , ^{214}Bi , ^{210}Pb (see Table 7, page 87)
- ^{54}Mn , ^{59}Fe , ^{57}Co , ^{58}Co , ^{60}Co , ^{65}Zn (see Table 8, page 105)
- ^{95}Zr , ^{94}Nb , ^{95}Nb , ^{106}Ru , ^{106}Rh , $^{108\text{m}}\text{Ag}$ (see Table 9, page 122)
- $^{110\text{m}}\text{Ag}$, ^{124}Sb , ^{125}Sb , ^{129}I , ^{131}I , ^{134}Cs (see Table 10, page 139)
- ^{137}Cs , ^{133}Ba , ^{144}Ce , ^{152}Eu , ^{154}Eu , ^{155}Eu (see Table 11, page 156)
- ^{239}Np , ^{241}Am , and from the ^{237}Np decay series; ^{237}Np and ^{233}Pa (see Table 12, page 173).

Portion 3C was further milled below 0.2 mm and analysed for gross alpha radioactivity; as ^{241}Am equivalent; and gross beta radioactivity; as both ^{60}Co and ^{14}C equivalent (see Table 4, page 41).

A selected set of concrete samples contained dark spots that could be an indication of the presence of oil, moisture, or both (see the Visual inspection reports and Table 2, page 20 for a cross reference). These spots were separately sampled after discussion with Magnox and sent for the analysis of:

- Moisture content and PAH compounds Acenaphthene, Acenaphthylene, Anthracene, Benzo[a]-anthracene, Benzo[a]-pyrene, Benzo[b]-fluoranthene, Benzo[g,h,i]-perylene (see Table 20, page 195)
- PAH compounds Benzo[k]-fluoranthene, Chrysene, Dibenzo[a,h]-anthracene, Fluoranthene, Fluorene, Indeno[1,2,3-cd]-pyrene, Naphthalene, (see Table 21, page 196)
- Total PAH and oil content as C6 to C40 (Table 22, page 197).

2.3.3 Subsampling and digestion of mild steel

Steel was subsampled by cold cutting pieces of the steel, and subsequently, coring out filings or swarf of the sample.

This coarsely cut material was split into four portions (see Figure 3, page 6). One portion was frozen for archiving.

The second portion was analysed for the gamma emitters:

- ^7Be , ^{40}K , from the ^{235}U decay series; ^{235}U and ^{231}Pa (see Table 5, page 55)
- from the ^{232}Th decay series; ^{228}Ra , ^{228}Ac , ^{212}Pb , ^{212}Bi , ^{208}Tl (see Table 6, page 71)
- from the ^{238}U decay series; ^{234}Th , $^{234\text{m}}\text{Pa}$, ^{226}Ra , ^{214}Pb , ^{214}Bi , ^{210}Pb (see Table 7, page 87)
- ^{54}Mn , ^{59}Fe , ^{57}Co , ^{58}Co , ^{60}Co , ^{65}Zn (see Table 8, page 105)
- ^{95}Zr , ^{94}Nb , ^{95}Nb , ^{106}Ru , ^{106}Rh , $^{108\text{m}}\text{Ag}$ (see Table 9, page 122)
- $^{110\text{m}}\text{Ag}$, ^{124}Sb , ^{125}Sb , ^{129}I , ^{131}I , ^{134}Cs (see Table 10, page 139)
- ^{137}Cs , ^{133}Ba , ^{144}Ce , ^{152}Eu , ^{154}Eu , ^{155}Eu (see Table 11, page 156)
- ^{239}Np , ^{241}Am , and from the ^{237}Np decay series; ^{237}Np and ^{233}Pa (see Table 12, page 173).

The third portion was dissolved in Aqua Regia and the gross alpha radioactivity (as ^{241}Am equivalent) and the gross beta radioactivity (as both ^{60}Co and ^{14}C equivalent) measured (see Table 4, page 41).

The fourth portion was used for the ^3H and ^{14}C analysis (see Table 5, page 55)

2.3.4 Subsampling and preparation of oil samples

No layering was observed in the oil samples. Oil samples were mixed and split into four portions (see Figure 4, page 7). One portion was frozen for archiving.

The second portion was used for the ^3H and ^{14}C analysis (see Table 5, page 55).

The third portion was digested using the standard sulphate ashing procedure for oils and the residue dissolved in Aqua Regia. The gross alpha radioactivity (as ^{241}Am equivalent) and the gross beta radioactivity (as both ^{60}Co and ^{14}C equivalent) was measured (see Table 4, page 41). Note that ^{14}C and ^{36}Cl are lost in this procedure.

The fourth portion was analysed for density (see Table 23, page 198) and for the gamma emitters:

- ^7Be , ^{40}K , from the ^{235}U decay series; ^{235}U and ^{231}Pa (see Table 5, page 55)
- from the ^{232}Th decay series; ^{228}Ra , ^{228}Ac , ^{212}Pb , ^{212}Bi , ^{208}Tl (see Table 6, page 71)
- from the ^{238}U decay series; ^{234}Th , $^{234\text{m}}\text{Pa}$, ^{226}Ra , ^{214}Pb , ^{214}Bi , ^{210}Pb (see Table 7, page 87)
- ^{54}Mn , ^{59}Fe , ^{57}Co , ^{58}Co , ^{60}Co , ^{65}Zn (see Table 8, page 105)
- ^{95}Zr , ^{94}Nb , ^{95}Nb , ^{106}Ru , ^{106}Rh , $^{108\text{m}}\text{Ag}$ (see Table 9, page 122)
- $^{110\text{m}}\text{Ag}$, ^{124}Sb , ^{125}Sb , ^{129}I , ^{131}I , ^{134}Cs (see Table 10, page 139)
- ^{137}Cs , ^{133}Ba , ^{144}Ce , ^{152}Eu , ^{154}Eu , ^{155}Eu (see Table 11, page 156)
- ^{239}Np , ^{241}Am , and from the ^{237}Np decay series; ^{237}Np and ^{233}Pa (see Table 12, page 173).

No further organic chemical analysis could be performed on the oil samples.

2.3.5 Subsampling and digestion of the paint samples

Very limited material was received. The material was ground using a ball mill to below 2 mm. The ground material was split into five portions. There was no material left to archive. Since the individual paint sample material for gamma spectrometry was limiting, it was decided by Magnox to bulk these samples into two bulk samples and reanalyze for gamma spectrometry to reach a lower limit of detection for ^{60}Co . The bulked material was stored as archive (see Figure 5, page 8).

The first portion was used to determine the lead content of the paint scrapings (Table 24, page 199).

The second portion was used to determine the organic components:

- Hydrocarbon content (C6 to C40) and PAH compounds Acenaphthene, Acenaphthylene, Anthracene, Benzo[a]-anthracene, Benzo[a]-pyrene, Benzo[b]-fluoranthene, Benzo[g,h,i]-perylene (see Table 25, page 200)
- PAH compounds Benzo[k]-fluoranthene, Chrysene, Dibenzo[a,h]-anthracene, Fluoranthene, Fluorene, Indeno[1,2,3-cd]-pyrene, Naphthalene (see Table 26, page 200)
- Total PAH concentration and PAH compounds Phenanthrene and Pyrene (see Table 27, page 201)

The third portion was analysed for the gamma emitters (higher LoD):

- ^7Be , ^{40}K , from the ^{235}U decay series; ^{235}U and ^{231}Pa (see Table 5, page 55)
- from the ^{232}Th decay series; ^{228}Ra , ^{228}Ac , ^{212}Pb , ^{212}Bi , ^{208}Tl (see Table 6, page 71)
- from the ^{238}U decay series; ^{234}Th , $^{234\text{m}}\text{Pa}$, ^{226}Ra , ^{214}Pb , ^{214}Bi , ^{210}Pb (see Table 7, page 87)
- ^{54}Mn , ^{59}Fe , ^{57}Co , ^{58}Co , ^{60}Co , ^{65}Zn (see Table 8, page 105)
- ^{95}Zr , ^{94}Nb , ^{95}Nb , ^{106}Ru , ^{106}Rh , $^{108\text{m}}\text{Ag}$ (see Table 9, page 122)
- $^{110\text{m}}\text{Ag}$, ^{124}Sb , ^{125}Sb , ^{129}I , ^{131}I , ^{134}Cs (see Table 10, page 139)
- ^{137}Cs , ^{133}Ba , ^{144}Ce , ^{152}Eu , ^{154}Eu , ^{155}Eu (see Table 11, page 156)
- ^{239}Np , ^{241}Am , and from the ^{237}Np decay series; ^{237}Np and ^{233}Pa (see Table 12, page 173).

Following this, the third portion from each paint sample was combined to form the 2 bulk samples and were analysed for the same radionuclides and reported in Table 5 to Table 12 as above.

The fourth portion was ground and dispersed on a filter paper for gross alpha/ beta analysis (see Table 4, page 41)

The fifth portion was frozen for later analysis for ^3H and ^{14}C .

2.4 Subsampling and preparation phase 2 analysis

2.4.1 Analysis and samples for phase 2 analysis

Table 1 summarises the samples selected for phase 2 analysis and analysis type. Bulking requirements are summarised as well. Each bulk sample was given a new unique laboratory sample ID.

Table 1. Concrete samples selected for further phase 2 analysis, including bulking of a sub-set.

Lab ID	Customer ID	Original Lab ID	Matrix	Cl-36	Fe-55 / Ni-63	Actinides
Concrete						
NB7096	TRA/HR/2022/2970/061/C	NB7096	Concrete	✓	✓	
NB7097	TRA/HR/2022/2970/062/C	NB7097	Concrete	✓	✓	
NC4241 (Bulk)	TRA/HR/2022/1970/085/C	NB6613	Concrete			
	TRA/HR/2022/1970/086/C	NB6614	Concrete	✓	✓	
	TRA/HR/2022/1970/087/C	NB6615	Concrete			
	TRA/HR/2022/1970/088/C	NB6616	Concrete			
NB6611	TRA/HR/2022/1970/083/C	NB6611	Concrete	✓	✓	
NB6667	TRA/HR/2022/1605/196/C	NB6667	Concrete	✓	✓	
NB7088	TRA/HR/2022/2970/050/C	NB7088	Concrete	✓	✓	
NB6592	TRA/HR/2022/1960/057/C	NB6592	Concrete	✓	✓	✓
NB6659	TRA/HR/2022/1610/182/C	NB6659	Concrete			✓
NB6596	TRA/HR/2022/1960/062/C	NB6596	Concrete	✓	✓	
NB7118	TRA/HR/2022/2960/088/C	NB7118	Concrete	✓	✓	
NB7111	TRA/HR/2022/2960/079/C	NB7111	Concrete	✓	✓	
NC4243 (Bulk)	TRA/HR/2022/1E91/026/C	NB6572	Concrete			
	TRA/HR/2022/1E91/034/C	NB6576	Concrete	✓	✓	
	TRA/HR/2022/1E91/037/C	NB6577	Concrete			
NC4244	TRA/HR/2022/2610/181/C	NB7160	Concrete			
	TRA/HR/2022/2610/182/C	NB7161	Concrete	✓	✓	
	TRA/HR/2022/2610/183/C	NB7162	Concrete			
	TRA/HR/2022/2610/184/C	NB7163	Concrete			
NC4245	TRA/HR/2022/2601/099/C	NB7129	Concrete			
	TRA/HR/2022/2602/100/C	NB7132	Concrete	✓	✓	
	TRA/HR/2022/2507/118/C	NB7148	Concrete			
	TRA/HR/2022/2508/120/C	NB7150	Concrete			
Oil/grease						
NB6565	TRA/HR/2022/1605/232/O	NB6565	Oil / Grease	✓	✓	
Metal, Mild steel						
NB6544	TRA/HR/2022/1651/134/M	NB6544	Metal		✓	
NB7069	TRA/HR/2022/2652/132/M	NB7069	Metal		✓	
Paint (flakes)						
NB7059	TRA/HR/2022/2610/163/P	NB7059	Paint (flakes)	✓	✓	
NC4242	TRA/HR/2022/2610/146/P	NB7053	Paint (flakes)			
	TRA/HR/2022/2610/158/P	NB7057	Paint (flakes)	✓	✓	
	TRA/HR/2022/2610/161/P	NB7058	Paint (flakes)			
	TRA/HR/2022/2670/171/P	NB7062	Paint (flakes)			

2.4.2 Subsampling, bulking and digestion of concrete and debris samples

2.4.2.1 Subsampling and bulking

From the archived material subsamples of 10 grams were taken for further analysis. For a set of samples, bulk samples were prepared (see Table 1). Bulk samples were prepared by taking equal weights from each of the selected samples to form the bulk.

2.4.2.2 Digestion

A sequential digest was applied containing three separate steps, each aiming to extract and dissolve a defined chemical form:

1. As initial treatment, 10 grams material was incinerated at 425°C to remove any organic material
2. The first digest step involved a leach in warm Aqua Regia. The incinerated material was boiled in 150 mL Aqua Regia (a mixture of HCl:HNO₃ 3:1) for 3 hours. This extracts all soluble strontium, plutonium, americium, curium, uranium and thorium.
3. The digest was filtered and the residue treated with 10 grams NH₄Cl in 100ml HCl (37%). This was warmed for 30 minutes and dissolved the Portland cement (aluminates and calcium sulphates) and all strontium, plutonium, americium, curium, uranium and thorium associated with this fraction.
4. This second digest was again filtered and the silicate residue (sand and flint) completely dissolved in a mixture of HF:HNO₃:HCl (9:4:2½) in a microwave assisted digestion. Uranium, thorium, and refractory plutonium dissolved in this mixture and were fully recovered when the silicates were evaporated off as fluorides. The residue was converted to nitrate salts and taken up in 8M HNO₃.
5. All three digests were combined and split into portions for the analysis of strontium (portion 1), plutonium, americium and uranium (portion 2, used in method ANU/SOP/2116) and thorium (portion 3, method ANU/SOP/2119). At this stage yield tracers were added.

For the analysis of ³⁶Cl, the acid digest was inappropriate. The use of HCl results in a loss of the analyte by isotopic dilution (Cl-36). Therefore, the test piece was digested/leached in a 10% NaOH solution for 1 day and the solution analyzed for ³⁶Cl.

2.4.3 Subsampling and digestion of mild steel

A test portion of 1 gram was completely dissolved in Aqua Regia (a mixture of HCl:HNO₃ 3:1) and was used for the ⁵⁵Fe and ⁶³Ni analysis

2.4.4 Subsampling and preparation of oil samples

A test portion of 5 grams of oil was treated with concentrated sulfuric acid (95%) and nitric acid (70%). The acid was boiled off and the in-organic residue dissolved in Aqua Regia (a mixture of HCl:HNO₃ 3:1) and was used for the ⁵⁵Fe and ⁶³Ni analysis.

2.4.5 Subsampling and digestion of the paint samples

A test portion was leached in Aqua Regia (a mixture of HCl:HNO₃ 3:1) and was used for the ⁵⁵Fe and ⁶³Ni analysis.

2.5 Radiochemical analysis

2.5.1 High Resolution Gamma Spectrometry

For all samples, method ANU/SOP/2029 *Determination of gamma-emitting radionuclides using high resolution gamma-spectrometry* was applied. This method is accredited for soils and waters. High resolution germanium gamma-spectrometers had efficiencies between 20% and 40%. The collected spectrum was loaded in the gamma spectrometry software "FitzPeak" and nuclides quantified against a certified calibration standard, with an additional correction for density differences between the sample and the calibration source. The library used (i.e. radionuclides to be analysed) was expanded on request by Magnox to include:

- The natural radionuclides ⁷Be, ⁴⁰K,
- The natural radionuclides from the ²³⁸U decay series; ²³⁴Th, ^{234m}Pa, ²²⁶Ra, ²¹⁴Pb, ²¹⁴Bi, ²¹⁰Pb
- The natural radionuclides from the ²³⁵U decay series; ²³⁵U and ²³¹Pa
- The natural radionuclides from the ²³²Th decay series; ²²⁸Ra, ²²⁸Ac, ²¹²Pb, ²¹²Bi, ²⁰⁸Tl
- The radionuclides from the ²³⁷Np decay series; ²³⁷Np and ²³³Pa
- The artificial radionuclides from fission and neutron activation processes ⁹⁵Zr, ⁹⁴Nb, ⁹⁵Nb, ¹⁰⁶Ru, ¹⁰⁶Rh, ^{108m}Ag, ^{110m}Ag, ¹²⁴Sb, ¹²⁵Sb, ¹²⁹I, ¹³¹I, ¹³⁴Cs, ¹³⁷Cs, ¹³³Ba, ¹⁴⁴Ce, ¹⁵²Eu, ¹⁵⁴Eu, ¹⁵⁵Eu, ²³⁹Np, ²⁴¹Am.

The presence of ¹²⁹I was verified manually due to similar, overlapping photo peak energies with ¹⁵²Eu (See section 4: Appendix on the Gamma spectrometry of ¹²⁹I and ¹⁵²Eu: region between 20 keV and 130 keV).

2.5.2 Gross alpha as ^{241}Am equivalent and gross beta as ^{14}C and ^{60}Co equivalent

2.5.2.1 (Bitumen) Roofing felt, mild steel and oil samples

The (final) acid digest was used and method ANU/SOP/2002 *Determination of gross alpha and gross beta activity in water using gas-proportional counting according to ISO 9696 and ISO 9697* applied. This method is accredited for waters. Gross alpha activity is expressed as ^{241}Am equivalent and gross beta activity as ^{14}C and ^{60}Co equivalent. The sample digest was converted to a (calcium) sulphate form and a thin source produced. This source was counted on calibrated low background gas proportional counter and a correction for alpha spill-over in the beta channel made. Calibration sources for ^{241}Am (as sulphate on calcium sulphate), ^{14}C (as carbonate on calcium sulphate) and ^{60}Co (as sulphate on calcium sulphate) were prepared.

2.5.2.2 Concrete, debris and paint scrapings

Finely ground material of the concrete and paint samples were used and method ANU/SOP/2005 *Determination of gross alpha and gross beta activity in soil using gas-proportional counting* applied. This method is accredited for soils. Gross alpha activity is expressed as ^{241}Am equivalent and gross beta activity as ^{14}C and ^{60}Co equivalent. The finely ground sample was dispersed onto a 50mm filter paper to produce a thin source and counted on calibrated low background gas proportional counters. A correction for alpha spill-over in the beta channel was made.

Calibration sources for concrete for ^{241}Am , ^{14}C , and ^{60}Co were made by preparing a standard concrete containing 1 part of Portland cement, 2 parts of sharp sand and 3 parts of aggregate. The calibration was corrected for the natural background of the concrete prepared.

The paint samples had a large organic component (see Table 25, page 200), and only trace amounts of lead (see Table 24, page 199). In agreement with Magnox, it was decided that standard anion exchange resin would mimic the attenuation characteristics of the paint. Calibration sources for paint scraping were therefore produced by loading anion exchange resin with ^{241}Am , ^{14}C , or ^{60}Co .

2.5.3 ^3H and ^{14}C using a pyrolysis technique:

For the determination of ^3H , method ANU/SOP/2094 *Determination of tritium using liquid scintillation counting after combustion* was used. This method was run in tandem with the method for ^{14}C ; method ANU/SOP/2103 *Determination of carbon-14 using liquid scintillation counting after combustion*. The method for tritium is accredited for all combustible materials; the method for radiocarbon is accredited for all environmental materials and for materials arising from decommissioning.

The analytical technique is based on the catalytic combustion of the sample at 850°C in the presence of oxygen. The gas stream is carried over a series of diluted acid traps to capture ^3H as H_2O and subsequently led over a series of traps filled with Carbosorb to capture ^{14}C as CO_2 . Samples from the traps were mixed with an appropriate scintillation cocktail and analysed on a calibrated low background liquid scintillation counter. Results were corrected for quench via a quench curve. No other radionuclides like ^{137}Cs , ^{99}Tc or ^{36}Cl were observed in the tritium beta spectra. Results from these tests are UKAS accredited.

2.5.4 Plutonium isotopes ($^{239/240}\text{Pu}$, ^{238}Pu , ^{241}Pu), Americium and Curium isotopes (^{241}Am , ^{242}Cm , $^{243/244}\text{Cm}$) methods.

Prior to analysis, the acid digest was used (see section 2.4). For the Thorium, Uranium, Plutonium, Americium and Curium isotopes, three test portions from the digest were taken and yield tracers added. Test-portion 1 was used for the determination of ^{238}U , ^{235}U , ^{234}U , $^{239/240}\text{Pu}$, ^{238}Pu , ^{241}Am , ^{242}Cm , $^{243/244}\text{Cm}$. Test-portion 2 was used for the determination of ^{241}Pu . Test-portion 3 was used for the determination of ^{232}Th , ^{230}Th and ^{228}Th . The methods followed were method ANU/SOP/2116 *Determination of uranium, plutonium, americium, and curium in water using alpha-spectrometry after radiochemical separation*, and method ANU/SOP/2119 *Determination of thorium in water using alpha-spectrometry after radiochemical separation*. These methods are accredited for waters. The actinides were co-precipitated with iron hydroxide and re-dissolved in hydrochloric acid. Thorium, Uranium, Plutonium, Americium and Curium were purified using anion exchange. Americium and Curium underwent further cation exchange chromatography as well, to separate them from macro elements. Sources were prepared by electrodeposition and were counted using alpha spectrometry.

2.5.5 ^{55}Fe and ^{63}Ni

For ^{55}Fe and ^{63}Ni method ANU/SOP/2147 *Determination of iron-55 and nickel-63 using liquid scintillation counting after radiochemical separation* was used. Prior to analysis, the Aqua Regia digest was used. This method is not accredited but falls under our ISO 9001 certification. ^{55}Fe was extracted from an 8M HCl solution using di-isopropyl ether, and back-extracted in phosphorous acid. The solution was mixed with an appropriate scintillation cocktail and analysed on a calibrated low background liquid scintillation counter. Results were corrected for quench via a quench curve.

The remaining 8M HCl solution, from which the iron had been extracted, was used for the ^{63}Ni analysis. ^{63}Ni was precipitated using the very specific ligand dimethylglyoxime. This complex was dissolved in dilute nitric acid, mixed with an appropriate scintillation cocktail and analysed on a calibrated low background liquid scintillation counter. Results were corrected for quench via a quench curve.

2.5.6 ^{36}Cl

^{36}Cl was measured using method ANU/SOP/2161 *Determination of chlorine-36 using liquid scintillation counting after radiochemical separation*. Prior to analysis, the alkaline digest was used to leach-out ^{36}Cl . This method is not accredited but falls under our ISO 9001 certification. Interferences in the leachate (radiochemical or chemical) were co-precipitated with barium sulphate. The filtrate was dried and the residue dissolved in nitric acid. The use of nitric acid removes all radio-iodine species, prior to the separation of the halogen species by precipitation of the silver salts from this solution. The pure silver chloride precipitate was dispersed in a gel-phase liquid scintillation cocktail and ^{36}Cl analysed using a calibrated low background liquid scintillation counter. Results were corrected for quench via a quench curve.

2.5.7 ^{90}Sr

Debris samples were analysed using method ANU/SOP/2105. Samples were digested as described in section 2.4. Due to suspected presence of large amounts of iron, an initial precipitation using calcium/strontium oxalate as carrier was applied. Strontium was separated from calcium using nitric acid at a concentration of 70%. The resulting strontium nitrate precipitate was further purified using barium chromate. A preparative was made by precipitating ^{90}Sr as strontium carbonate, which was measured 4 times over a period of 10 days to follow the ingrowth of ^{90}Y , which is a measure for the ^{90}Sr activity in the sample. ^{85}Sr was used as a tracer to account for losses.

2.6 Chemical analysis

2.6.1 Location of the chemistry analysis

Chemical analyses were performed by our SOCOTEC chemistry laboratories at Bretby Business Park, Ashby Road, Burton-upon-Trent, Staffordshire, DE15 0YZ.

2.6.2 Analysis for lead

Paint samples were tested for lead. Samples were digested in high-purity concentrated acid, using hotplate assisted heating. Following digestion, the samples were diluted to a known volume with deionised water. Samples were further diluted as necessary and analysed by ICP-AES calibrated using certified standards (ASC/SOP/102). The method is not accredited for paint.

2.6.3 Analysis for Organics

2.6.3.1 Polycyclic Aromatic Hydrocarbons (PAHs)

The following PAH compounds were tested: PAH compounds Acenaphthene, Acenaphthylene, Anthracene, Benzo[a]-anthracene, Benzo[a]-pyrene, Benzo[b]-fluoranthene, Benzo[g,h,i]-perylene, Benzo[k]-fluoranthene, Chrysene, Dibenzo[a,h]-anthracene, Fluoranthene, Fluorene, Indeno[1,2,3-cd]-pyrene, Naphthalene, Phenanthrene and Pyrene. For the roofing felt samples this list was expanded with Coronene. Methods "PAHMSUS - 16 PAHs by GCMS" and "PAHMSUS - 17 PAHs (inc. Coronene)", respectively, were used. Sample matrices are not accredited.

2.6.3.2 Phenols

Roofing felt samples were analysed for Total phenols and speciated as Trimethyl-phenols, Dimethyl-phenols, Methyl-phenols, and Phenol. Method "PHEHPLCUV - Phenols Suite by HPLC-UV" was used. The sample matrix is not accredited.

2.6.3.3 Total Petroleum Carbon (TPH)

Concrete and paint flakes were analysed for TPH to represent oil and hydrocarbon content, respectively. The TPH concentration was measured using method "TPHCALC - TPH (>C6-C40) Total (Calc)". Sample matrices are not accredited.

2.6.4 Analysis for acid soluble sulphate

Concrete samples were analysed for acid soluble sulphate using method "ICPACID", using an acid leach of the sample followed by ICP-OES determination of sulphur.

2.7 Detection limits and measurement uncertainty

2.7.1 Detection limits for chemical tests

As is common practice in analytical chemistry, the detection limit for the chemical analysis is based on repeat analysis of a blank sample.

2.7.2 Detection limits for radiochemical tests

Detection limits are calculated to ISO 11929. This definition includes all error source terms: the counting error of the blank, the counting error of the sample and the analytical error associated with the analytical technique. Detection limits are calculated based on the specifics of the sample, and not, as is common practice in analytical chemistry, based on repeat analysis of a blank sample.

2.7.3 Measurement uncertainties

Measurement uncertainties are based on a full uncertainty budget including the counting statistics (in case of a radiometric determination) of the blank, sample, and calibration source plus all analytical uncertainties and the calibration standard precision. Uncertainties are expressed on a 95%-confidence basis, i.e. $k=2$.

3 RESULTS

All results are presented in the following tables:

Table Number	Table Caption	Page Number
Table 2	Sample mass received and reference to visual observations (Photographs)	Page 20
Table 3	(Acid) Leachable and residual gross alpha and gross beta radiation in selected roofing felt samples and the debris samples. Note that in the second set of roofing felt samples, asbestos-like fibres were found and no further analyses could be carried out. Gross alpha radiation has been assessed against ²⁴¹ Am calibration source; gross beta radiation was assessed against both ¹⁴ C and ⁶⁰ Co sources. The matrix and methodology is excluded from our UKAS accreditation, as indicated by the asterisk	Page 40
Table 4	(Total) Gross alpha and gross beta radiation in selected samples. Gross alpha radiation has been assessed against ²⁴¹ Am calibration source; gross beta radiation was assessed against both ¹⁴ C and ⁶⁰ Co sources. The matrix is excluded from our UKAS accreditation, as indicated by the asterisk	Page 41
Table 5	Pyrolysis analysis (Tritium and Carbon-14) and gamma spectrometry (⁷ Be, ⁴⁰ K, ²³⁵ U, ²³¹ Pa). Tritium and Carbon-14 fall under our UKAS accreditation. The matrix is excluded from our UKAS accreditation for gamma spectrometry as indicated by the asterisk; N.D. stands for "Not Determined".	Page 55
Table 6	Gamma spectrometry for the ²³² Th decay series (²²⁸ Ra, ²²⁸ Ac, ²¹² Pb, ²¹² Bi, ²⁰⁸ Tl). ²²⁸ Ra has been estimated assuming secular equilibrium of its daughter nuclide ²²⁸ Ac. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.	Page 71
Table 7	Gamma spectrometry for the ²³⁸ U decay series (²³⁴ Th, ^{234m} Pa, ²²⁶ Ra, ²¹⁴ Pb, ²¹⁴ Bi, ²¹⁰ Pb). Note that ²²⁶ Ra has only one gamma ray at 186 keV and the major gamma ray from ²³⁵ U also occurs at 186 keV. ²³⁵ U can be measured by the lower abundance gamma ray at 144 keV and if a positive result for ²³⁵ U is reported the ²²⁶ Ra result will be overestimated. If ²³⁵ U is below the LoD there may still be a contribution to the ²²⁶ Ra signal from ²³⁵ U and the ²²⁶ Ra result may still be overestimated. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.	Page 87

Table Number	Table Caption	Page Number
Table 8	Gamma spectrometry for the artificial radionuclides ⁵⁴ Mn, ⁵⁹ Fe, ⁵⁷ Co, ⁵⁸ Co, ⁶⁰ Co, ⁶⁵ Zn. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.	Page 105
Table 9	Gamma spectrometry for the artificial radionuclides ⁹⁵ Zr, ⁹⁴ Nb, ⁹⁵ Nb, ¹⁰⁶ Ru, ¹⁰⁶ Rh, ¹⁰⁸ mAg. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.	Page 122
Table 10	Gamma spectrometry for the artificial radionuclides ¹¹⁰ mAg, ¹²⁴ Sb, ¹²⁵ Sb, ¹²⁹ I, ¹³¹ I, ¹³⁴ Cs. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.	Page 139
Table 11	Gamma spectrometry for the artificial radionuclides ¹³⁷ Cs, ¹³³ Ba, ¹⁴⁴ Ce, ¹⁵² Eu, ¹⁵⁴ Eu, ¹⁵⁵ Eu. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.	Page 156
Table 12	Gamma spectrometry for the artificial radionuclides ²³⁹ Np and ²⁴¹ Am, and the radionuclides from the ²³⁷ Np decay series ²³⁷ Np and ²³³ Pa. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.	Page 173
Table 13	Beta emitters ³⁶ Cl, ⁵⁵ Fe, ⁶³ Ni by Liquid Scintillation Counting and ⁹⁰ Sr by Gas Flow Proportional Counting (GFPC). The matrix is excluded from our UKAS accreditation for beta emitters, as indicated by the asterisk. Note that not all analysis were required on all samples, which is indicated by "Not Determined".	Page 190
Table 14	Alpha spectrometry results for Thorium and Uranium isotopes	Page 191
Table 15	Alpha spectrometry results for Plutonium, Americium and Curium isotopes. The matrix is excluded from our UKAS accreditation for alpha spectrometry, as indicated by the asterisk. Note that not all analysis were required on all samples, which is indicated by "Not Determined". ²⁴¹ Pu has been determined using Liquid Scintillation Counting (not UKAS accredited).	Page 191
Table 16	Chemical composition of roofing felt as Moisture Content and PAH compounds Acenaphthene, Acenaphthylene, Anthracene, Benzo[a]-anthracene, Benzo[a]-pyrene, Benzo[b]-fluoranthene, Benzo[g,h,i]-perylene. The matrix is excluded from our UKAS accreditation, as indicated by the asterisk.	Page 192
Table 17	Chemical composition of roofing felt (cont.) as PAH compounds Benzo[k]-fluoranthene, Chrysene, Coronene, Dibenzo[a,h]-anthracene, Fluoranthene, Fluorene, Indeno[1,2,3-cd]-pyrene, Naphthalene. The matrix is excluded from our UKAS accreditation, as indicated by the asterisk.	Page 192
Table 18	Chemical composition of roofing felt (cont.) as total PAH and Phenols concentration with PAH compounds Phenanthrene and Pyrene and the phenols split into Trimethyl-phenols, Dimethyl-phenols, Methyl-phenols, Phenol. The matrix is excluded from our UKAS accreditation, as indicated by the asterisk.	Page 193
Table 19	Moisture content and acid soluble sulphate in concrete samples. The matrix is excluded from our UKAS accreditation, as indicated by the asterisk.	Page 194
Table 20	Chemical composition of concrete as Moisture content and PAH compounds Acenaphthene, Acenaphthylene, Anthracene, Benzo[a]-anthracene, Benzo[a]-pyrene, Benzo[b]-fluoranthene, Benzo[g,h,i]-perylene. The matrix is excluded from our UKAS accreditation, as indicated by the asterisk.	Page 195
Table 21	Chemical composition of concrete (cont.) as PAH compounds Benzo[k]-fluoranthene, Chrysene, Dibenzo[a,h]-anthracene, Fluoranthene, Fluorene, Indeno[1,2,3-cd]-pyrene, Naphthalene. The matrix is excluded from our UKAS accreditation, as indicated by the asterisk.	Page 196
Table 22	Chemical composition of concrete (cont.) as total PAH, PAH compounds Phenanthrene and Pyrene and oil concentration. The matrix is excluded from our UKAS accreditation, as indicated by the asterisk.	Page 197
Table 23	Density of oil samples. The matrix is excluded from our UKAS accreditation, as indicated by the asterisk.	Page 198
Table 24	Lead concentration and percentage in paint flakes. The matrix is excluded from our UKAS accreditation, as indicated by the asterisk.	Page 199
Table 25	Chemical composition of paint flakes as hydrocarbon content and PAH compounds Acenaphthene, Acenaphthylene, Anthracene, Benzo[a]-anthracene, Benzo[a]-pyrene, Benzo[b]-fluoranthene, Benzo[g,h,i]-perylene. The matrix is excluded from our UKAS accreditation, as indicated by the asterisk.	Page 200
Table 26	Chemical composition of concrete (cont.) as PAH compounds Benzo[k]-fluoranthene, Chrysene, Dibenzo[a,h]-anthracene, Fluoranthene, Fluorene, Indeno[1,2,3-cd]-pyrene, Naphthalene. The matrix is excluded from our UKAS accreditation, as indicated by the asterisk.	Page 200
Table 27	Chemical composition of paint flakes (cont.) as total PAH concentration and PAH compounds Phenanthrene and Pyrene. The matrix is excluded from our UKAS accreditation, as indicated by the asterisk.	Page 201
Table 28	(Total) Gross alpha and gross beta radiation in Taki Rag. Gross alpha radiation has been assessed against ²⁴¹ Am calibration source, gross beta radiation was assessed against both ¹⁴ C and ⁶⁰ Co sources. The matrix is excluded from our UKAS accreditation, as indicated by the asterisk.	Page 201

Table Number	Table Caption	Page Number
Table 29	Pyrolysis analysis (Tritium and Carbon-14) and gamma spectrometry (7Be, 40K, ²³⁵ U, ²³¹ Pa) in Taki Rags and Swab samples. Tritium and Carbon-14 fall under our UKAS accreditation. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk. Not all analyses were required for all samples as indicated by "Not Determined".	Page 202
Table 30	Gamma spectrometry in Taki Rags and Swab samples for the ²³² Th decay series (²²⁸ Ra, ²²⁸ Ac, ²¹² Pb, ²¹² Bi, ²⁰⁸ Tl). ²²⁸ Ra has been estimated assuming secular equilibrium of its daughter nuclide ²²⁸ Ac. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.	Page 203
Table 31	Gamma spectrometry in Taki Rags and Swab samples for the ²³⁸ U decay series (²³⁴ Th, ²³⁴ mPa, ²²⁶ Ra, ²¹⁴ Pb, ²¹⁴ Bi, ²¹⁰ Pb). Note that ²²⁶ Ra has only one gamma ray at 186 keV and the major gamma ray from ²³⁵ U also occurs at 186 keV. ²³⁵ U can be measured by the lower abundance gamma ray at 144 keV and if a positive result for ²³⁵ U is reported the ²²⁶ Ra result will be overestimated. If ²³⁵ U is below the LoD there may still be a contribution to the ²²⁶ Ra signal from ²³⁵ U and the ²²⁶ Ra result may still be overestimated. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.	Page 204
Table 32	Gamma spectrometry in Taki Rags and Swab samples for the artificial radionuclides ⁵⁴ Mn, ⁵⁹ Fe, ⁵⁷ Co, ⁵⁸ Co, ⁶⁰ Co, ⁶⁵ Zn. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.	Page 205
Table 33	Gamma spectrometry in Taki Rags and Swab samples for the artificial radionuclides ⁹⁵ Zr, ⁹⁴ Nb, ⁹⁵ Nb, ¹⁰⁶ Ru, ¹⁰⁶ Rh, ¹⁰⁸ mAg. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.	Page 206
Table 34	Gamma spectrometry in Taki Rags and Swab samples for the artificial radionuclides ¹¹⁰ mAg, ¹²⁴ Sb, ¹²⁵ Sb, ¹²⁹ I, ¹³¹ I, ¹³⁴ Cs. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.	Page 207
Table 35	Gamma spectrometry in Taki Rags and Swab samples for the artificial radionuclides ¹³⁷ Cs, ¹³³ Ba, ¹⁴⁴ Ce, ¹⁵² Eu, ¹⁵⁴ Eu, ¹⁵⁵ Eu. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.	Page 208
Table 36	Gamma spectrometry in Taki Rags and Swab samples for the artificial radionuclides ²³⁹ Np and ²⁴¹ Am, and the radionuclides from the ²³⁷ Np decay series ²³⁷ Np and ²³³ Pa in Taki rag and swab samples. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.	Page 209
Table 37	Beta emitters ³⁶ Cl, ⁵⁵ Fe, ⁶³ Ni by Liquid Scintillation Counting in Taki Rag. The beta emitters are not UKAS accredited, as indicated by the asterisk.	Page 210

Table 2. Sample mass received and reference to visual observations (Photographs)

Job ID	Sample ID	Customer Sample Reference	Sampling Date	Matrix	Mass (kg)	Count Rate (CPS)	Temp. (°C)	Photo Presented in Report ID
22-0975	NB6528	TRA/HR/2022/1E91/001/F	29/06/2022	Roofing felt	0.1307	5	16.6	22-0975 Photos in depth, page 19
22-0975	NB6529	TRA/HR/2022/1E91/003/F	29/06/2022	Roofing felt	0.0814	4	16.6	22-0975 Photos in depth, page 7
22-0975	NB6530	TRA/HR/2022/1E91/004/F	29/06/2022	Roofing felt	0.0742	5	16.6	22-0975 Photos in depth, page 6
22-0975	NB6531	TRA/HR/2022/1E91/005/F	29/06/2022	Roofing felt	0.1159	4	16.6	22-0975 Photos in depth, page 11
22-0975	NB6532	TRA/HR/2022/1E91/007/F	29/06/2022	Roofing felt	0.0728	4	16.6	22-0975 Photos in depth, page 5
22-0975	NB6533	TRA/HR/2022/1E91/008/F	29/06/2022	Roofing felt	0.0628	5	16.6	22-0975 Photos in depth, page 13
22-0975	NB6534	TRA/HR/2022/1E91/009/F	29/06/2022	Roofing felt	0.0694	5	16.6	22-0975 Photos in depth, page 8
22-0975	NB6535	TRA/HR/2022/1E91/011/F	04/07/2022	Roofing felt	0.0674	4	16.6	22-0975 Photos in depth, page 18
22-0975	NB6536	TRA/HR/2022/1E91/013/F	04/07/2022	Roofing felt	0.0964	4	16.6	22-0975 Photos in depth, page 16
22-0975	NB6537	TRA/HR/2022/1E91/014/F	04/07/2022	Roofing felt	0.106	5	16.6	22-0975 Photos in depth, page 10
22-0975	NB6538	TRA/HR/2022/1E91/015/F	04/07/2022	Roofing felt	0.0975	4	16.6	22-0975 Photos in depth, page 9
22-0975	NB6539	TRA/HR/2022/1E91/016/F	04/07/2022	Roofing felt	0.0699	4	16.6	22-0975 Photos in depth, page 14
22-0975	NB6540	TRA/HR/2022/1E91/018/F	04/07/2022	Roofing felt	0.0783	4	16.6	22-0975 Photos in depth, page 12
22-0975	NB6541	TRA/HR/2022/1E91/019/F	04/07/2022	Roofing felt	0.0764	6	16.6	22-0975 Photos in depth, page 15
22-0975	NB6542	TRA/HR/2022/1E91/020/F	04/07/2022	Roofing felt	0.0717	4	16.6	22-0975 Photos in depth, page 17
22-0975	NB6543	TRA/HR/2022/1751/133/M	28/06/2022	Metal	0.583	4	16.6	22-0975 Photos in depth, page 41
22-0975	NB6544	TRA/HR/2022/1651/134/M	28/06/2022	Metal	0.6395	6	16.6	22-0975 Photos in depth, page 40
22-0975	NB6545	TRA/HR/2022/1610/135/P	24/06/2022	Paint (flakes)	0.0229	5	16.6	22-0975 Photos in depth, page 33
22-0975	NB6546	TRA/HR/2022/1610/137/P	24/06/2022	Paint (flakes)	0.015	4	16.6	22-0975 Photos in depth, page 28
22-0975	NB6547	TRA/HR/2022/1610/141/P	24/06/2022	Paint (flakes)	0.0181	5	16.6	22-0975 Photos in depth, page 34
22-0975	NB6548	TRA/HR/2022/1610/145/P	24/06/2022	Paint (flakes)	0.0163	5	16.6	22-0975 Photos in depth, page 20

Table 2. Sample mass received and reference to visual observations (Photographs)

Job ID	Sample ID	Customer Sample Reference	Sampling Date	Matrix	Mass (kg)	Count Rate (CPS)	Temp. (°C)	Photo Presented in Report ID
22-0975	NB6549	TRA/HR/2022/1610/147/P	27/06/2022	Paint (flakes)	0.0167	3	16.6	22-0975 Photos in depth, page 26
22-0975	NB6550	TRA/HR/2022/1610/151/P	27/06/2022	Paint (flakes)	0.0182	5	16.6	22-0975 Photos in depth, page 37
22-0975	NB6551	TRA/HR/2022/1610/154/P	27/06/2022	Paint (flakes)	0.0167	5	16.6	22-0975 Photos in depth, page 39
22-0975	NB6552	TRA/HR/2022/1610/157/P	27/06/2022	Paint (flakes)	0.0158	5	16.6	22-0975 Photos in depth, page 32
22-0975	NB6553	TRA/HR/2022/1610/159/P	27/06/2022	Paint (flakes)	0.0156	4	16.6	22-0975 Photos in depth, page 35
22-0975	NB6554	TRA/HR/2022/1610/160/P	27/06/2022	Paint (flakes)	0.0159	4	16.6	22-0975 Photos in depth, page 21
22-0975	NB6555	TRA/HR/2022/1610/163/P	28/06/2022	Paint (flakes)	0.0155	5	16.6	22-0975 Photos in depth, page 27
22-0975	NB6556	TRA/HR/2022/1610/167/P	28/06/2022	Paint (flakes)	0.0192	5	16.6	22-0975 Photos in depth, page 22
22-0975	NB6557	TRA/HR/2022/1670/170/P	28/06/2022	Paint (flakes)	0.0184	5	16.6	22-0975 Photos in depth, page 29
22-0975	NB6558	TRA/HR/2022/1670/172/P	28/06/2022	Paint (flakes)	0.0218	5	16.6	22-0975 Photos in depth, page 36
22-0975	NB6559	TRA/HR/2022/1670/174/P	28/06/2022	Paint (flakes)	0.022	5	16.6	22-0975 Photos in depth, page 24
22-0975	NB6560	TRA/HR/2022/1670/175/P	28/06/2022	Paint (flakes)	0.012	5	16.6	22-0975 Photos in depth, page 30
22-0975	NB6561	TRA/HR/2022/1670/176/P	29/06/2022	Paint (flakes)	0.0148	4	16.6	22-0975 Photos in depth, page 25
22-0975	NB6562	TRA/HR/2022/1670/177/P	29/06/2022	Paint (flakes)	0.013	5	16.6	No photo taken
22-0975	NB6563	TRA/HR/2022/1670/178/P	29/06/2022	Paint (flakes)	0.0116	4	16.6	22-0975 Photos in depth, page 31
22-0975	NB6564	TRA/HR/2022/1670/179/P	29/06/2022	Paint (flakes)	0.0153	3	16.6	22-0975 Photos in depth, page 23
22-0975	NB6565	TRA/HR/2022/1605/232/O	11/07/2022	Oil / Grease	0.0703	5	16.6	No photo taken
22-0975	NB6566	TRA/HR/2022/1605/233/O	11/07/2022	Oil / Grease	0.0711	4	16.6	No photo taken
22-0975	NB6567	TRA/HR/2022/1740/234/O	11/07/2022	Oil / Grease	0.0582	4	16.6	No photo taken
22-0975	NB6568	TRA/HR/2022/1740/235/O	11/07/2022	Oil / Grease	0.1022	4	16.6	No photo taken
22-0975	NB6569	TRA/HR/2022/1E91/021/C	22/06/2022	Concrete	0.3917	4	16.6	22-0975 Photos in depth, page 52

Table 2. Sample mass received and reference to visual observations (Photographs)

Job ID	Sample ID	Customer Sample Reference	Sampling Date	Matrix	Mass (kg)	Count Rate (CPS)	Temp. (°C)	Photo Presented in Report ID
22-0975	NB6570	TRA/HR/2022/1E91/024/C	22/06/2022	Concrete	0.3239	6	16.6	22-0975 Photos in depth, page 50
22-0975	NB6571	TRA/HR/2022/1E91/025/C	22/06/2022	Concrete	0.8663	5	16.6	22-0975 Photos in depth, page 43
22-0975	NB6572	TRA/HR/2022/1E91/026/C	22/06/2022	Concrete	0.2869	4	16.6	22-0975 Photos in depth, page 48
22-0975	NB6573	TRA/HR/2022/1E91/028/C	22/06/2022	Concrete	0.1925	5	16.6	22-0975 Photos in depth, page 49
22-0975	NB6574	TRA/HR/2022/1E91/032/C	22/06/2022	Concrete	0.2548	4	16.6	22-0975 Photos in depth, page 47
22-0975	NB6575	TRA/HR/2022/1E91/033/C	22/06/2022	Concrete	0.556	7	16.6	22-0975 Photos in depth, page 51
22-0975	NB6576	TRA/HR/2022/1E91/034/C	22/06/2022	Concrete	0.4898	4	16.6	22-0975 Photos in depth, page 44
22-0975	NB6577	TRA/HR/2022/1E91/037/C	22/06/2022	Concrete	0.2937	4	16.6	22-0975 Photos in depth, page 42
22-0975	NB6578	TRA/HR/2022/1E91/038/C	22/06/2022	Concrete	0.3488	5	16.6	22-0975 Photos in depth, page 45
22-0975	NB6579	TRA/HR/2022/1960/041/C	14/06/2022	Concrete	0.2115	3	16.6	22-0975 Photos in depth, page 46
22-0975	NB6580	TRA/HR/2022/1960/042/C	14/06/2022	Concrete	0.3208	4	16.6	22-0975 Photos in depth, page 53
22-0975	NB6581	TRA/HR/2022/1960/044/C	14/06/2022	Concrete	0.3015	4	16.6	22-0975 Photos in depth, page 54
22-0976	NB6582	TRA/HR/2022/1960/046/C	14/06/2022	Concrete	0.2300	4	16.6	22-0976 Photos in depth, page 24
22-0976	NB6583	TRA/HR/2022/1960/047/C	14/06/2022	Concrete	0.2550	4.13	16.6	22-0976 Photos in depth, page 25
22-0976	NB6584	TRA/HR/2022/1960/049/C	14/06/2022	Concrete	0.2576	4.4	16.6	22-0976 Photos in depth, page 9
22-0976	NB6585	TRA/HR/2022/1960/050/C	14/06/2022	Concrete	0.1981	3	16.6	22-0976 Photos in depth, page 14
22-0976	NB6586	TRA/HR/2022/1960/051/C	16/06/2022	Concrete	0.2560	4	16.6	22-0976 Photos in depth, page 22
22-0976	NB6587	TRA/HR/2022/1960/052/C	16/06/2022	Concrete	0.3330	4.25	16.6	22-0976 Photos in depth, page 23
22-0976	NB6588	TRA/HR/2022/1960/053/C	16/06/2022	Concrete	0.2806	3.81	16.6	22-0976 Photos in depth, page 10
22-0976	NB6589	TRA/HR/2022/1960/054/C	16/06/2022	Concrete	0.3290	7	16.6	22-0976 Photos in depth, page 20
22-0976	NB6590	TRA/HR/2022/1960/055/C	16/06/2022	Concrete	0.2121	6.2	16.6	22-0976 Photos in depth, page 6

Table 2. Sample mass received and reference to visual observations (Photographs)

Job ID	Sample ID	Customer Sample Reference	Sampling Date	Matrix	Mass (kg)	Count Rate (CPS)	Temp. (°C)	Photo Presented in Report ID
22-0976	NB6591	TRA/HR/2022/1960/056/C	16/06/2022	Concrete	0.2690	3.81	16.6	22-0976 Photos in depth, page 15; Page 66 (sample sent for oil and TPH analysis)
22-0976	NB6592	TRA/HR/2022/1960/057/C	16/06/2022	Concrete	0.2220	4.81	16.6	22-0976 Photos in depth, page 26
22-0976	NB6593	TRA/HR/2022/1960/058/C	16/06/2022	Concrete	0.2300	3.31	16.6	22-0976 Photos in depth, page 48
22-0976	NB6594	TRA/HR/2022/1960/060/C	16/06/2022	Concrete	0.2900	4.41	16.6	22-0976 Photos in depth, page 11; Page 65 (sample sent for oil and TPH analysis)
22-0976	NB6595	TRA/HR/2022/1960/061/C	24/06/2022	Concrete	0.4320	4	16.6	22-0976 Photos in depth, page 57
22-0976	NB6596	TRA/HR/2022/1960/062/C	24/06/2022	Concrete	0.2020	5.4	16.6	22-0976 Photos in depth, page 27
22-0976	NB6597	TRA/HR/2022/1960/063/C	24/06/2022	Concrete	0.2030	3.81	16.6	22-0976 Photos in depth, page 53; Page 63 (sample sent for oil and TPH analysis)
22-0976	NB6598	TRA/HR/2022/1960/064/C	24/06/2022	Concrete	0.3090	4.5	16.6	22-0976 Photos in depth, page 28
22-0976	NB6599	TRA/HR/2022/1970/065/C	21/06/2022	Concrete	0.3110	3.73	16.6	22-0976 Photos in depth, page 43
22-0976	NB6600	TRA/HR/2022/1970/066/C	21/06/2022	Concrete	0.3567	4.13	16.6	22-0976 Photos in depth, page 7
22-0976	NB6601	TRA/HR/2022/1970/068/C	21/06/2022	Concrete	0.2400	4.44	16.6	22-0976 Photos in depth, page 29
22-0976	NB6602	TRA/HR/2022/1970/071/C	21/06/2022	Concrete	0.3530	4.94	16.6	22-0976 Photos in depth, page 54
22-0976	NB6603	TRA/HR/2022/1970/072/C	21/06/2022	Concrete	0.3120	3.88	16.6	22-0976 Photos in depth, page 45
22-0976	NB6604	TRA/HR/2022/1970/073/C	21/06/2022	Concrete	0.2830	4.8	16.6	22-0976 Photos in depth, page 30
22-0976	NB6605	TRA/HR/2022/1970/074/C	21/06/2022	Concrete	0.3570	3.69	16.6	22-0976 Photos in depth, page 56
22-0976	NB6606	TRA/HR/2022/1970/077/C	21/06/2022	Concrete	0.3320	4	16.6	22-0976 Photos in depth, page 31; Page 64 (sample sent for oil and TPH analysis)
22-0976	NB6607	TRA/HR/2022/1970/078/C	21/06/2022	Concrete	0.3416	3	16.6	22-0976 Photos in depth, page 8

Table 2. Sample mass received and reference to visual observations (Photographs)

Job ID	Sample ID	Customer Sample Reference	Sampling Date	Matrix	Mass (kg)	Count Rate (CPS)	Temp. (°C)	Photo Presented in Report ID
22-0976	NB6608	TRA/HR/2022/1970/079/C	21/06/2022	Concrete	0.3022	5.13	16.6	22-0976 Photos in depth, page 16
22-0976	NB6609	TRA/HR/2022/1970/080/C	21/06/2022	Concrete	0.2880	4.19	16.6	22-0976 Photos in depth, page 32
22-0976	NB6610	TRA/HR/2022/1970/082/C	21/06/2022	Concrete	0.3400	4.5	16.6	22-0976 Photos in depth, page 33
22-0976	NB6611	TRA/HR/2022/1970/083/C	21/06/2022	Concrete	0.3133	5.19	16.6	22-0976 Photos in depth, page 18
22-0976	NB6612	TRA/HR/2022/1970/084/C	21/06/2022	Concrete	0.3028	4.88	16.6	22-0976 Photos in depth, page 19
22-0976	NB6613	TRA/HR/2022/1970/085/C	23/06/2022	Concrete	0.3759	4.63	16.6	22-0976 Photos in depth, page 13
22-0976	NB6614	TRA/HR/2022/1970/086/C	23/06/2022	Concrete	0.4510	6.2	16.6	22-0976 Photos in depth, page 59; Page 62 (sample sent for oil and TPH analysis)
22-0976	NB6615	TRA/HR/2022/1970/087/C	23/06/2022	Concrete	0.3130	4.19	16.6	22-0976 Photos in depth, page 52; Page 61 (sample sent for oil and TPH analysis)
22-0976	NB6616	TRA/HR/2022/1970/088/C	23/06/2022	Concrete	0.3750	8	16.6	22-0976 Photos in depth, page 55; Page 60 (sample sent for oil and TPH analysis)
22-0976	NB6617	TRA/HR/2022/1901/089/C	23/05/2022	Concrete	0.2180	3.75	16.6	22-0976 Photos in depth, page 34
22-0976	NB6618	TRA/HR/2022/1901/090/C	23/05/2022	Concrete	0.3580	2.94	16.6	22-0976 Photos in depth, page 47
22-0976	NB6619	TRA/HR/2022/1901/091/C	23/05/2022	Concrete	0.2220	3.69	16.6	22-0976 Photos in depth, page 35
22-0976	NB6620	TRA/HR/2022/1901/092/C	23/05/2022	Concrete	0.2000	4.9	16.6	22-0976 Photos in depth, page 12
22-0976	NB6621	TRA/HR/2022/1901/093/C	23/05/2022	Concrete	0.2258	4.56	16.6	22-0976 Photos in depth, page 17
22-0976	NB6622	TRA/HR/2022/1951/094/C	23/05/2022	Concrete	0.2980	2.69	16.6	22-0976 Photos in depth, page 50
22-0976	NB6623	TRA/HR/2022/1951/095/C	23/05/2022	Concrete	0.4390	4.88	16.6	22-0976 Photos in depth, page 46
22-0976	NB6624	TRA/HR/2022/1951/096/C	23/05/2022	Concrete	0.3070	4.5	16.6	22-0976 Photos in depth, page 21
22-0976	NB6625	TRA/HR/2022/1951/097/C	23/05/2022	Concrete	0.2250	4.13	16.6	22-0976 Photos in depth, page 36

Table 2. Sample mass received and reference to visual observations (Photographs)

Job ID	Sample ID	Customer Sample Reference	Sampling Date	Matrix	Mass (kg)	Count Rate (CPS)	Temp. (°C)	Photo Presented in Report ID
22-0976	NB6626	TRA/HR/2022/1951/098/C	23/05/2022	Concrete	0.5060	4.31	16.6	22-0976 Photos in depth, page 49
22-0976	NB6627	TRA/HR/2022/1601/099/C	24/05/2022	Concrete	0.2610	4.94	16.6	22-0976 Photos in depth, page 37
22-0976	NB6628	TRA/HR/2022/1602/104/C	24/05/2022	Concrete	0.3560	3.88	16.6	22-0976 Photos in depth, page 40
22-0976	NB6629	TRA/HR/2022/1603/105/C	24/05/2022	Concrete	0.5780	3.44	16.6	22-0976 Photos in depth, page 58
22-0976	NB6630	TRA/HR/2022/1651/100/C	22/06/2022	Concrete	0.4950	4.31	16.6	22-0976 Photos in depth, page 51
22-0976	NB6631	TRA/HR/2022/1651/101/C	22/06/2022	Concrete	0.4830	3.69	16.6	22-0976 Photos in depth, page 44
22-0976	NB6632	TRA/HR/2022/1651/102/C	22/06/2022	Concrete	0.4100	4	16.6	22-0976 Photos in depth, page 38
22-0976	NB6633	TRA/HR/2022/1651/103/C	22/06/2022	Concrete	0.4310	6	16.6	22-0976 Photos in depth, page 39
22-0976	NB6634	TRA/HR/2022/1762/111/C	24/05/2022	Concrete	0.4270	5	16.6	22-0976 Photos in depth, page 42
22-0976	NB6635	TRA/HR/2022/1652/106/C	23/06/2022	Concrete	0.2650	3.38	16.6	22-0976 Photos in depth, page 41
22-0977	NB6636	TRA/HR/2022/1652/107/C	23/06/2022	Concrete	0.2670	4.75	16.6	22-0977 Photos in depth, page 41
22-0977	NB6637	TRA/HR/2022/1761/108/C	23/05/2022	Concrete	0.4230	4.33	16.6	22-0977 Photos in depth, page 7
22-0977	NB6638	TRA/HR/2022/1652/109/C	23/06/2022	Concrete	0.5220	6.25	16.6	22-0977 Photos in depth, page 6
22-0977	NB6639	TRA/HR/2022/1652/110/C	23/06/2022	Concrete	0.4410	4.38	16.6	22-0977 Photos in depth, page 54
22-0977	NB6640	TRA/HR/2022/1763/114/C	24/05/2022	Concrete	0.4910	4.88	16.6	22-0977 Photos in depth, page 49
22-0977	NB6641	TRA/HR/2022/1653/112/C	23/06/2022	Concrete	0.3730	4	16.6	22-0977 Photos in depth, page 8
22-0977	NB6642	TRA/HR/2022/1653/113/C	23/06/2022	Concrete	0.5410	5.25	16.6	22-0977 Photos in depth, page 11
22-0977	NB6643	TRA/HR/2022/1653/115/C	23/06/2022	Concrete	0.4550	4.44	16.6	22-0977 Photos in depth, page 9
22-0977	NB6644	TRA/HR/2022/1653/116/C	23/06/2022	Concrete	0.3820	4.44	16.6	22-0977 Photos in depth, page 30
22-0977	NB6645	TRA/HR/2022/1507/117/C	25/05/2022	Concrete	0.4330	7.5	16.6	22-0977 Photos in depth, page 51
22-0977	NB6646	TRA/HR/2022/1507/118/C	25/05/2022	Concrete	0.2670	4.25	16.6	22-0977 Photos in depth, page 36

Table 2. Sample mass received and reference to visual observations (Photographs)

Job ID	Sample ID	Customer Sample Reference	Sampling Date	Matrix	Mass (kg)	Count Rate (CPS)	Temp. (°C)	Photo Presented in Report ID
22-0977	NB6647	TRA/HR/2022/1508/119/C	25/05/2022	Concrete	0.4500	3.75	16.6	22-0977 Photos in depth, page 39
22-0977	NB6648	TRA/HR/2022/1508/120/C	25/05/2022	Concrete	0.2780	6.4	16.6	22-0977 Photos in depth, page 38
22-0977	NB6649	TRA/HR/2022/1509/121/C	25/05/2022	Concrete	0.3070	3.69	16.6	22-0977 Photos in depth, page 50
22-0977	NB6650	TRA/HR/2022/1509/122/C	25/05/2022	Concrete	0.3990	5	16.6	22-0977 Photos in depth, page 48
22-0977	NB6651	TRA/HR/2022/1751/123/C	25/05/2022	Concrete	0.6120	7.2	16.6	22-0977 Photos in depth, page 10
22-0977	NB6652	TRA/HR/2022/1751/124/C	25/05/2022	Concrete	0.4230	7.56	16.6	22-0977 Photos in depth, page 37
22-0977	NB6653	TRA/HR/2022/1752/125/C	25/05/2022	Concrete	0.2590	4.19	16.6	22-0977 Photos in depth, page 55
22-0977	NB6654	TRA/HR/2022/1752/126/C	25/05/2022	Concrete	0.3120	5.4	16.6	22-0977 Photos in depth, page 40
22-0977	NB6655	TRA/HR/2022/1753/127/C	25/05/2022	Concrete	0.2350	3.5	16.6	22-0977 Photos in depth, page 45
22-0977	NB6656	TRA/HR/2022/1753/128/C	25/05/2022	Concrete	0.2410	4.25	16.6	22-0977 Photos in depth, page 47
22-0977	NB6657	TRA/HR/2022/1610/180/C	29/06/2022	Concrete	0.3250	6	16.6	22-0977 Photos in depth, page 44
22-0977	NB6658	TRA/HR/2022/1610/181/C	29/06/2022	Concrete	2.3000	5	16.6	22-0977 Photos in depth, page 5
22-0977	NB6659	TRA/HR/2022/1610/182/C	29/06/2022	Concrete	0.3150	4.25	16.6	22-0977 Photos in depth, page 52
22-0977	NB6660	TRA/HR/2022/1610/183/C	29/06/2022	Concrete	0.3800	4.38	16.6	22-0977 Photos in depth, page 46
22-0977	NB6661	TRA/HR/2022/1610/184/C	29/06/2022	Concrete	0.3280	4.5	16.6	22-0977 Photos in depth, page 43
22-0977	NB6662	TRA/HR/2022/1605/190/C	26/05/2022	Concrete	0.3730	4.38	16.6	22-0977 Photos in depth, page 12
22-0977	NB6663	TRA/HR/2022/1605/191/C	26/05/2022	Concrete	0.3620	5.31	16.6	22-0977 Photos in depth, page 29
22-0977	NB6664	TRA/HR/2022/1605/192/C	26/05/2022	Concrete	0.2690	3.38	16.6	22-0977 Photos in depth, page 42
22-0977	NB6665	TRA/HR/2022/1605/193/C	26/05/2022	Concrete	0.4170	5.5	16.6	22-0977 Photos in depth, page 28
22-0977	NB6666	TRA/HR/2022/1605/195/C	26/05/2022	Concrete	1.0790	4.75	16.6	22-0977 Photos in depth, page 24
22-0977	NB6667	TRA/HR/2022/1605/196/C	26/05/2022	Concrete	0.3410	4.5	16.6	22-0977 Photos in depth, page 53

Table 2. Sample mass received and reference to visual observations (Photographs)

Job ID	Sample ID	Customer Sample Reference	Sampling Date	Matrix	Mass (kg)	Count Rate (CPS)	Temp. (°C)	Photo Presented in Report ID
22-0977	NB6668	TRA/HR/2022/1605/197/C	26/05/2022	Concrete	0.3520	4.25	16.6	22-0977 Photos in depth, page 25
22-0977	NB6669	TRA/HR/2022/1605/198/C	26/05/2022	Concrete	0.4070	4.5	16.6	22-0977 Photos in depth, page 26
22-0977	NB6670	TRA/HR/2022/1605/201/C	01/06/2022	Concrete	0.2880	4.81	16.6	22-0977 Photos in depth, page 18
22-0977	NB6671	TRA/HR/2022/1605/203/C	01/06/2022	Concrete	0.7530	4.44	16.6	22-0977 Photos in depth, page 21
22-0977	NB6672	TRA/HR/2022/1605/204/C	01/06/2022	Concrete	0.2760	5	16.6	22-0977 Photos in depth, page 31
22-0977	NB6673	TRA/HR/2022/1605/205/C	01/06/2022	Concrete	0.3490	5.25	16.6	22-0977 Photos in depth, page 19
22-0977	NB6674	TRA/HR/2022/1605/206/C	01/06/2022	Concrete	0.5270	3.81	16.6	22-0977 Photos in depth, page 14
22-0977	NB6675	TRA/HR/2022/1605/209/C	01/06/2022	Concrete	0.2710	4.75	16.6	22-0977 Photos in depth, page 16
22-0977	NB6676	TRA/HR/2022/1771/211/C	08/06/2022	Concrete	0.2990	5.13	16.6	22-0977 Photos in depth, page 17
22-0977	NB6677	TRA/HR/2022/1771/212/C	08/06/2022	Concrete	0.3300	3.38	16.6	22-0977 Photos in depth, page 20
22-0977	NB6678	TRA/HR/2022/1754/213/C	08/06/2022	Concrete	0.3380	3.88	16.6	22-0977 Photos in depth, page 35
22-0977	NB6679	TRA/HR/2022/1754/215/C	08/06/2022	Concrete	0.4550	3.5	16.6	22-0977 Photos in depth, page 23
22-0977	NB6680	TRA/HR/2022/1771/218/C	08/06/2022	Concrete	0.3250	4.06	16.6	22-0977 Photos in depth, page 15
22-0977	NB6681	TRA/HR/2022/1755/219/C	09/06/2022	Concrete	0.3030	4.5	16.6	22-0977 Photos in depth, page 34
22-0977	NB6682	TRA/HR/2022/1771/220/C	09/06/2022	Concrete	0.3800	5.63	16.6	22-0977 Photos in depth, page 27
22-0977	NB6683	TRA/HR/2022/1771/221/C	09/06/2022	Concrete	0.4000	6.13	16.6	22-0977 Photos in depth, page 13
22-0977	NB6684	TRA/HR/2022/1771/223/C	09/06/2022	Concrete	0.2640	4.38	16.6	22-0977 Photos in depth, page 32
22-0977	NB6685	TRA/HR/2022/1771/226/C	09/06/2022	Concrete	0.2440	3.86	16.6	22-0977 Photos in depth, page 33
22-0977	NB6686	TRA/HR/2022/1755/227/C	09/06/2022	Concrete	0.3270	4.75	16.6	22-0977 Photos in depth, page 22
22-1054	NB7034	TRA/HR/2022/2E91/001/F	07/07/2022	Roofing felt	0.0447	5	17.4	22-1054 Photos in depth, page 5
22-1054	NB7035	TRA/HR/2022/2E91/003/F	07/07/2022	Roofing felt	0.0550	5	5.1	22-1054 Photos in depth, page 6

Table 2. Sample mass received and reference to visual observations (Photographs)

Job ID	Sample ID	Customer Sample Reference	Sampling Date	Matrix	Mass (kg)	Count Rate (CPS)	Temp. (°C)	Photo Presented in Report ID
22-1054	NB7036	TRA/HR/2022/2E91/004/F	07/07/2022	Roofing felt	0.0394	4	15.3	22-1054 Photos in depth, page 7
22-1054	NB7037	TRA/HR/2022/2E91/005/F	07/07/2022	Roofing felt	0.0458	6	15.3	22-1054 Photos in depth, page 8
22-1054	NB7038	TRA/HR/2022/2E91/007/F	07/07/2022	Roofing felt	0.0492	3	17.3	22-1054 Photos in depth, page 9
22-1054	NB7039	TRA/HR/2022/2E91/008/F	07/07/2022	Roofing felt	0.0564	5	16.6	22-1054 Photos in depth, page 10
22-1054	NB7040	TRA/HR/2022/2E91/009/F	07/07/2022	Roofing felt	0.0558	4	16.3	22-1054 Photos in depth, page 11
22-1054	NB7041	TRA/HR/2022/2E91/011/F	07/07/2022	Roofing felt	0.0785	4	8.2	22-1054 Photos in depth, page 12
22-1054	NB7042	TRA/HR/2022/2E91/013/F	07/07/2022	Roofing felt	0.0591	3	16.9	22-1054 Photos in depth, page 13
22-1054	NB7043	TRA/HR/2022/2E91/014/F	07/07/2022	Roofing felt	0.0486	4	18.3	22-1054 Photos in depth, page 14
22-1054	NB7044	TRA/HR/2022/2E91/015/F	07/07/2022	Roofing felt	0.0519	4	17.7	22-1054 Photos in depth, page 15
22-1054	NB7045	TRA/HR/2022/2E91/016/F	07/07/2022	Roofing felt	0.0549	4	14.6	22-1054 Photos in depth, page 16
22-1054	NB7046	TRA/HR/2022/2E91/018/F	07/07/2022	Roofing felt	0.0379	4	18.4	22-1054 Photos in depth, page 17
22-1054	NB7047	TRA/HR/2022/2E91/019/F	07/07/2022	Roofing felt	0.0686	5	11.9	22-1054 Photos in depth, page 18
22-1054	NB7048	TRA/HR/2022/2E91/020/F	07/07/2022	Roofing felt	0.0471	4	17.6	22-1054 Photos in depth, page 19
22-1054	NB7049	TRA/HR/2022/2610/136/P	27/07/2022	Paint (flakes)	0.0212	4	19.9	22-1054 Photos in depth, page 20
22-1054	NB7050	TRA/HR/2022/2610/139/P	27/07/2022	Paint (flakes)	0.0206	4	19.8	22-1054 Photos in depth, page 21
22-1054	NB7051	TRA/HR/2022/2610/142/P	27/07/2022	Paint (flakes)	0.0220	4	19.8	22-1054 Photos in depth, page 22
22-1054	NB7052	TRA/HR/2022/2610/144/P	27/07/2022	Paint (flakes)	0.0243	4	19.9	22-1054 Photos in depth, page 23
22-1054	NB7053	TRA/HR/2022/2610/146/P	27/07/2022	Paint (flakes)	0.0207	4	19.6	22-1054 Photos in depth, page 24
22-1054	NB7054	TRA/HR/2022/2610/149/P	27/07/2022	Paint (flakes)	0.0211	4	19.7	22-1054 Photos in depth, page 25
22-1054	NB7055	TRA/HR/2022/2610/152/P	27/07/2022	Paint (flakes)	0.0228	4	19.6	22-1054 Photos in depth, page 26
22-1054	NB7056	TRA/HR/2022/2610/154/P	27/07/2022	Paint (flakes)	0.0249	3	19.8	22-1054 Photos in depth, page 27

Table 2. Sample mass received and reference to visual observations (Photographs)

Job ID	Sample ID	Customer Sample Reference	Sampling Date	Matrix	Mass (kg)	Count Rate (CPS)	Temp. (°C)	Photo Presented in Report ID
22-1054	NB7057	TRA/HR/2022/2610/158/P	27/07/2022	Paint (flakes)	0.0246	4	19.6	22-1054 Photos in depth, page 28
22-1054	NB7058	TRA/HR/2022/2610/161/P	27/07/2022	Paint (flakes)	0.0242	3	19.4	No Photograph taken
22-1054	NB7059	TRA/HR/2022/2610/163/P	27/07/2022	Paint (flakes)	0.0292	3	19.1	22-1054 Photos in depth, page 30
22-1054	NB7060	TRA/HR/2022/2610/166/P	27/07/2022	Paint (flakes)	0.0206	4	19.6	22-1054 Photos in depth, page 31
22-1054	NB7061	TRA/HR/2022/2610/169/P	27/07/2022	Paint (flakes)	0.0321	5	19.3	22-1054 Photos in depth, page 32
22-1054	NB7062	TRA/HR/2022/2670/171/P	28/07/2022	Paint (flakes)	0.0230	4	19.5	22-1054 Photos in depth, page 33
22-1054	NB7063	TRA/HR/2022/2670/173/P	28/07/2022	Paint (flakes)	0.0212	4	19.1	22-1054 Photos in depth, page 34
22-1054	NB7064	TRA/HR/2022/2670/175/P	28/07/2022	Paint (flakes)	0.0169	3	19.9	22-1054 Photos in depth, page 35
22-1054	NB7065	TRA/HR/2022/2670/176/P	28/07/2022	Paint (flakes)	0.0154	4	19.8	22-1054 Photos in depth, page 36
22-1054	NB7066	TRA/HR/2022/2670/177/P	28/07/2022	Paint (flakes)	0.0172	3	19.9	22-1054 Photos in depth, page 37
22-1054	NB7067	TRA/HR/2022/2670/178/P	28/07/2022	Paint (flakes)	0.0188	4	19.6	No Photograph taken
22-1054	NB7068	TRA/HR/2022/2670/179/P	28/07/2022	Paint (flakes)	0.0163	4	19.8	22-1054 Photos in depth, page 39
22-1054	NB7069	TRA/HR/2022/2652/132/M	04/07/2022	Metal	0.5431	3	18.3	22-1054 Photos in depth, page 40
22-1054	NB7070	TRA/HR/2022/2652/134/M	04/07/2022	Metal	0.6174	4	17.9	22-1054 Photos in depth, page 41
22-1054	NB7071	TRA/HR/2022/2E91/022/C	07/07/2022	Concrete	0.3842	4	19	22-1054 Photos in depth, page 42
22-1054	NB7072	TRA/HR/2022/2E91/024/C	07/07/2022	Concrete	0.2801	6	18.1	22-1054 Photos in depth, page 43
22-1054	NB7073	TRA/HR/2022/2E91/027/C	07/07/2022	Concrete	0.3663	4	18.4	22-1054 Photos in depth, page 44
22-1054	NB7074	TRA/HR/2022/2E91/028/C	07/07/2022	Concrete	0.2829	5	17.9	22-1054 Photos in depth, page 45
22-1054	NB7075	TRA/HR/2022/2E91/030/C	07/07/2022	Concrete	0.4028	7	15.1	22-1054 Photos in depth, page 46
22-1054	NB7076	TRA/HR/2022/2E91/033/C	07/07/2022	Concrete	0.5535	4	15	22-1054 Photos in depth, page 47
22-1054	NB7077	TRA/HR/2022/2E91/034/C	07/07/2022	Concrete	0.5127	7	17.6	22-1054 Photos in depth, page 48

Table 2. Sample mass received and reference to visual observations (Photographs)

Job ID	Sample ID	Customer Sample Reference	Sampling Date	Matrix	Mass (kg)	Count Rate (CPS)	Temp. (°C)	Photo Presented in Report ID
22-1054	NB7078	TRA/HR/2022/2E91/036/C	07/07/2022	Concrete	0.4602	3	16.7	22-1054 Photos in depth, page 49
22-1054	NB7079	TRA/HR/2022/2E91/037/C	07/07/2022	Concrete	0.4305	5	15.8	22-1054 Photos in depth, page 50
22-1054	NB7080	TRA/HR/2022/2E91/039/C	07/07/2022	Concrete	0.3517	4	16.6	22-1054 Photos in depth, page 51
22-1057	NB7081	TRA/HR/2022/2970/041/C	12/07/2022	Concrete	0.2457	5	11.1	22-1057 Photos in depth, page 6
22-1057	NB7082	TRA/HR/2022/2970/043/C	12/07/2022	Concrete	0.2870	5	12.3	22-1057 Photos in depth, page 7
22-1057	NB7083	TRA/HR/2022/2970/044/C	12/07/2022	Concrete	0.2223	4	12.1	22-1057 Photos in depth, page 8
22-1057	NB7084	TRA/HR/2022/2970/045/C	12/07/2022	Concrete	0.3188	4	13.3	22-1057 Photos in depth, page 9
22-1057	NB7085	TRA/HR/2022/2970/047/C	12/07/2022	Concrete	0.3726	4	12.8	22-1057 Photos in depth, page 10
22-1057	NB7086	TRA/HR/2022/2970/048/C	12/07/2022	Concrete	0.3917	6	11.6	22-1057 Photos in depth, page 11
22-1057	NB7087	TRA/HR/2022/2970/049/C	12/07/2022	Concrete	0.4111	6	11.4	22-1057 Photos in depth, page 12
22-1057	NB7088	TRA/HR/2022/2970/050/C	12/07/2022	Concrete	0.3117	4	12.6	22-1057 Photos in depth, page 13
22-1057	NB7089	TRA/HR/2022/2970/051/C	12/07/2022	Concrete	0.3168	5	12.4	22-1057 Photos in depth, page 61
22-1057	NB7090	TRA/HR/2022/2970/052/C	12/07/2022	Concrete	0.2407	5	11.5	22-1057 Photos in depth, page 15
22-1057	NB7091	TRA/HR/2022/2970/053/C	12/07/2022	Concrete	0.4012	4	12.6	22-1057 Photos in depth, page 16
22-1057	NB7092	TRA/HR/2022/2970/054/C	12/07/2022	Concrete	0.2826	3	12.8	22-1057 Photos in depth, page 17
22-1057	NB7093	TRA/HR/2022/2970/055/C	12/07/2022	Concrete	0.4521	4	11.3	22-1057 Photos in depth, page 18; Page 60 (sample sent for oil and TPH analysis)
22-1057	NB7094	TRA/HR/2022/2970/058/C	12/07/2022	Concrete	0.4745	4	13	22-1057 Photos in depth, page 19
22-1057	NB7095	TRA/HR/2022/2970/059/C	12/07/2022	Concrete	0.6460	5	12.1	22-1057 Photos in depth, page 20
22-1057	NB7096	TRA/HR/2022/2970/061/C	19/07/2022	Concrete	0.2960	4	10.7	22-1057 Photos in depth, page 21; Page 62 (sample sent for oil and TPH analysis)

Table 2. Sample mass received and reference to visual observations (Photographs)

Job ID	Sample ID	Customer Sample Reference	Sampling Date	Matrix	Mass (kg)	Count Rate (CPS)	Temp. (°C)	Photo Presented in Report ID
22-1057	NB7097	TRA/HR/2022/2970/062/C	19/07/2022	Concrete	0.2257	7	10.5	22-1057 Photos in depth, page 22; Page 63 (sample sent for oil and TPH analysis)
22-1057	NB7098	TRA/HR/2022/2970/063/C	19/07/2022	Concrete	0.3451	5	12.1	22-1057 Photos in depth, page 23
22-1057	NB7099	TRA/HR/2022/2970/064/C	19/07/2022	Concrete	0.5737	4	13.3	22-1057 Photos in depth, page 24; Page 65 (sample sent for oil and TPH analysis)
22-1057	NB7100	TRA/HR/2022/2960/065/C	26/07/2022	Concrete	0.2643	4	12.2	22-1057 Photos in depth, page 25
22-1057	NB7101	TRA/HR/2022/2960/067/C	26/07/2022	Concrete	0.2977	3	11.1	22-1057 Photos in depth, page 26
22-1057	NB7102	TRA/HR/2022/2960/068/C	26/07/2022	Concrete	0.2666	3	12.4	22-1057 Photos in depth, page 27
22-1057	NB7103	TRA/HR/2022/2960/070/C	26/07/2022	Concrete	0.2399	5	10.5	22-1057 Photos in depth, page 28
22-1057	NB7104	TRA/HR/2022/2960/071/C	26/07/2022	Concrete	0.2752	4	12.2	22-1057 Photos in depth, page 29
22-1057	NB7105	TRA/HR/2022/2960/072/C	26/07/2022	Concrete	0.2653	4	12.5	22-1057 Photos in depth, page 30
22-1057	NB7106	TRA/HR/2022/2960/073/C	26/07/2022	Concrete	0.4190	4	11.7	22-1057 Photos in depth, page 31
22-1057	NB7107	TRA/HR/2022/2960/074/C	26/07/2022	Concrete	0.4560	9	12	22-1057 Photos in depth, page 32
22-1057	NB7108	TRA/HR/2022/2960/075/C	26/07/2022	Concrete	0.4951	8	13.6	22-1057 Photos in depth, page 33
22-1057	NB7109	TRA/HR/2022/2960/076/C	26/07/2022	Concrete	0.3267	5	10.2	22-1057 Photos in depth, page 34
22-1057	NB7110	TRA/HR/2022/2960/077/C	26/07/2022	Concrete	0.5405	5	11.3	22-1057 Photos in depth, page 35
22-1057	NB7111	TRA/HR/2022/2960/079/C	26/07/2022	Concrete	0.3071	4	12.7	22-1057 Photos in depth, page 36
22-1057	NB7112	TRA/HR/2022/2960/082/C	26/07/2022	Concrete	0.3453	4	10.9	22-1057 Photos in depth, page 37
22-1057	NB7113	TRA/HR/2022/2960/083/C	26/07/2022	Concrete	0.2861	5	11.3	22-1057 Photos in depth, page 38
22-1057	NB7114	TRA/HR/2022/2960/084/C	26/07/2022	Concrete	0.3648	4	14.4	22-1057 Photos in depth, page 39

Table 2. Sample mass received and reference to visual observations (Photographs)

Job ID	Sample ID	Customer Sample Reference	Sampling Date	Matrix	Mass (kg)	Count Rate (CPS)	Temp. (°C)	Photo Presented in Report ID
22-1057	NB7115	TRA/HR/2022/2960/085/C	26/07/2022	Concrete	0.3439	4	10.5	22-1057 Photos in depth, page 40; Page 64 (sample sent for oil and TPH analysis)
22-1057	NB7116	TRA/HR/2022/2960/086/C	26/07/2022	Concrete	0.2329	6	10.4	22-1057 Photos in depth, page 41
22-1057	NB7117	TRA/HR/2022/2960/087/C	26/07/2022	Concrete	0.2793	5	13.3	22-1057 Photos in depth, page 42
22-1057	NB7118	TRA/HR/2022/2960/088/C	26/07/2022	Concrete	0.3822	4	10.9	22-1057 Photos in depth, page 43; Page 66 (sample sent for oil and TPH analysis)
22-1057	NB7119	TRA/HR/2022/2901/089/C	05/07/2022	Concrete	0.3706	4	11.1	22-1057 Photos in depth, page 44
22-1057	NB7120	TRA/HR/2022/2901/090/C	05/07/2022	Concrete	0.4198	3	13.6	22-1057 Photos in depth, page 45
22-1057	NB7121	TRA/HR/2022/2901/091/C	05/07/2022	Concrete	0.8747	4	-19	22-1057 Photos in depth, page 46
22-1057	NB7122	TRA/HR/2022/2901/092/C	05/07/2022	Concrete	0.3611	5	-6.4	22-1057 Photos in depth, page 47
22-1057	NB7123	TRA/HR/2022/2901/093/C	05/07/2022	Concrete	0.7212	4	-16	22-1057 Photos in depth, page 48
22-1057	NB7124	TRA/HR/2022/2951/094/C	05/07/2022	Concrete	0.3201	4	-19	22-1057 Photos in depth, page 49
22-1057	NB7125	TRA/HR/2022/2951/095/C	05/07/2022	Concrete	0.3435	4	-18	22-1057 Photos in depth, page 50
22-1057	NB7126	TRA/HR/2022/2951/096/C	05/07/2022	Concrete	0.8336	4	-19	22-1057 Photos in depth, page 51
22-1057	NB7127	TRA/HR/2022/2951/097/C	05/07/2022	Concrete	0.3033	5	-10	22-1057 Photos in depth, page 52
22-1057	NB7128	TRA/HR/2022/2951/098/C	05/07/2022	Concrete	0.3261	5	-16	22-1057 Photos in depth, page 53
22-1057	NB7129	TRA/HR/2022/2601/099/C	21/07/2022	Concrete	1.2328	4	-17	22-1057 Photos in depth, page 54
22-1057	NB7130	TRA/HR/2022/2651/104/C	25/07/2022	Concrete	0.3437	7	-18	22-1057 Photos in depth, page 55
22-1057	NB7131	TRA/HR/2022/2651/105/C	25/07/2022	Concrete	0.2034	4	-15	22-1057 Photos in depth, page 56
22-1057	NB7132	TRA/HR/2022/2602/100/C	21/07/2022	Concrete	0.4502	4	-15	22-1057 Photos in depth, page 57
22-1057	NB7133	TRA/HR/2022/2603/101/C	21/07/2022	Concrete	0.6663	7	-6.9	22-1057 Photos in depth, page 58

Table 2. Sample mass received and reference to visual observations (Photographs)

Job ID	Sample ID	Customer Sample Reference	Sampling Date	Matrix	Mass (kg)	Count Rate (CPS)	Temp. (°C)	Photo Presented in Report ID
22-1057	NB7134	TRA/HR/2022/2651/102/C	25/07/2022	Concrete	0.3111	4	-10	22-1057 Photos in depth, page 59
22-1058	NB7135	TRA/HR/2022/2651/103/C	25/07/2022	Concrete	0.3056	6	8.7	22-1058 Photos in depth, page 5
22-1058	NB7136	TRA/HR/2022/2652/111/C	25/07/2022	Concrete	0.4194	5	4.7	22-1058 Photos in depth, page 6
22-1058	NB7137	TRA/HR/2022/2651/106/C	25/07/2022	Concrete	0.3756	6	6.4	22-1058 Photos in depth, page 7
22-1058	NB7138	TRA/HR/2022/2652/107/C	23/06/2022	Concrete	0.3295	5	12.4	22-1058 Photos in depth, page 8
22-1058	NB7139	TRA/HR/2022/2652/108/C	25/07/2022	Concrete	0.3582	5	10.3	22-1058 Photos in depth, page 9
22-1058	NB7140	TRA/HR/2022/2652/109/C	25/07/2022	Concrete	0.2322	4	15.1	22-1058 Photos in depth, page 10
22-1058	NB7141	TRA/HR/2022/2652/110/C	25/07/2022	Concrete	0.2956	5	11.9	22-1058 Photos in depth, page 11
22-1058	NB7142	TRA/HR/2022/2653/114/C	25/07/2022	Concrete	0.2835	4	14.3	22-1058 Photos in depth, page 12
22-1058	NB7143	TRA/HR/2022/2653/112/C	25/07/2022	Concrete	0.4418	4	13.9	22-1058 Photos in depth, page 13
22-1058	NB7144	TRA/HR/2022/2653/113/C	25/07/2022	Concrete	0.2886	5	13.8	22-1058 Photos in depth, page 14
22-1058	NB7145	TRA/HR/2022/2653/115/C	25/07/2022	Concrete	0.2937	4	14.2	22-1058 Photos in depth, page 15
22-1058	NB7146	TRA/HR/2022/2653/116/C	25/07/2022	Concrete	0.3840	5	11.3	22-1058 Photos in depth, page 16
22-1058	NB7147	TRA/HR/2022/2507/117/C	20/07/2022	Concrete	0.4619	4	13.3	22-1058 Photos in depth, page 17
22-1058	NB7148	TRA/HR/2022/2507/118/C	20/07/2022	Concrete	0.4206	5	12.1	22-1058 Photos in depth, page 18
22-1058	NB7149	TRA/HR/2022/2508/119/C	20/07/2022	Concrete	0.6777	4	-19	22-1058 Photos in depth, page 19
22-1058	NB7150	TRA/HR/2022/2508/120/C	20/07/2022	Concrete	0.3048	5	-20	22-1058 Photos in depth, page 20
22-1058	NB7151	TRA/HR/2022/2509/121/C	20/07/2022	Concrete	0.2002	6	-13	22-1058 Photos in depth, page 21
22-1058	NB7152	TRA/HR/2022/2509/122/C	20/07/2022	Concrete	0.2739	3	-15	22-1058 Photos in depth, page 22
22-1058	NB7153	TRA/HR/2022/2751/123/C	21/07/2022	Concrete	0.2704	4	-12	22-1058 Photos in depth, page 23
22-1058	NB7154	TRA/HR/2022/2751/124/C	21/07/2022	Concrete	0.3963	5	-13	22-1058 Photos in depth, page 24

Table 2. Sample mass received and reference to visual observations (Photographs)

Job ID	Sample ID	Customer Sample Reference	Sampling Date	Matrix	Mass (kg)	Count Rate (CPS)	Temp. (°C)	Photo Presented in Report ID
22-1058	NB7155	TRA/HR/2022/2752/125/C	21/07/2022	Concrete	0.4100	4	-9.4	22-1058 Photos in depth, page 25
22-1058	NB7156	TRA/HR/2022/2752/126/C	21/07/2022	Concrete	0.2502	5	-7	22-1058 Photos in depth, page 26
22-1058	NB7157	TRA/HR/2022/2753/127/C	21/07/2022	Concrete	0.3536	4	-5.1	22-1058 Photos in depth, page 27
22-1058	NB7158	TRA/HR/2022/2753/128/C	21/07/2022	Concrete	0.2388	5	-2.2	22-1058 Photos in depth, page 28
22-1058	NB7159	TRA/HR/2022/2670/180/C	28/07/2022	Concrete	0.9812	4	-17	22-1058 Photos in depth, page 29
22-1058	NB7160	TRA/HR/2022/2610/181/C	28/07/2022	Concrete	0.7468	4	-15	22-1058 Photos in depth, page 30
22-1058	NB7161	TRA/HR/2022/2610/182/C	28/07/2022	Concrete	0.3702	4	-13	22-1058 Photos in depth, page 31
22-1058	NB7162	TRA/HR/2022/2610/183/C	28/07/2022	Concrete	0.3134	4	-12	22-1058 Photos in depth, page 32
22-1058	NB7163	TRA/HR/2022/2610/184/C	28/07/2022	Concrete	0.9987	5	-15	22-1058 Photos in depth, page 33
22-1058	NB7164	TRA/HR/2022/2605/190/C	26/05/2022	Concrete	0.3945	4	-9.4	22-1058 Photos in depth, page 34
22-1058	NB7165	TRA/HR/2022/2605/191/C	26/05/2022	Concrete	0.2782	3	1.2	22-1058 Photos in depth, page 35
22-1058	NB7166	TRA/HR/2022/2605/194/C	26/05/2022	Concrete	0.2390	5	-7.4	22-1058 Photos in depth, page 36
22-1058	NB7167	TRA/HR/2022/2605/195/C	26/05/2022	Concrete	0.4730	5	-9.5	22-1058 Photos in depth, page 37
22-1058	NB7168	TRA/HR/2022/2605/196/C	26/05/2022	Concrete	0.3734	4	-5.9	22-1058 Photos in depth, page 38
22-1058	NB7169	TRA/HR/2022/2605/198/C	26/05/2022	Concrete	0.4917	6	-2.7	22-1058 Photos in depth, page 39
22-1058	NB7170	TRA/HR/2022/2605/201/C	01/06/2022	Concrete	0.3331	4	-16	22-1058 Photos in depth, page 40
22-1058	NB7171	TRA/HR/2022/2605/203/C	01/06/2022	Concrete	0.3185	4	-9.3	22-1058 Photos in depth, page 41
22-1058	NB7172	TRA/HR/2022/2605/204/C	01/06/2022	Concrete	0.4322	5	-14	22-1058 Photos in depth, page 42
22-1058	NB7173	TRA/HR/2022/2605/205/C	01/06/2022	Concrete	0.2539	5	-9.3	22-1058 Photos in depth, page 43
22-1058	NB7174	TRA/HR/2022/2605/206/C	01/06/2022	Concrete	0.5726	4	-8.3	22-1058 Photos in depth, page 44
22-1058	NB7175	TRA/HR/2022/2514/208/C	01/06/2022	Concrete	0.2644	5	-5.8	22-1058 Photos in depth, page 45

Table 2. Sample mass received and reference to visual observations (Photographs)

Job ID	Sample ID	Customer Sample Reference	Sampling Date	Matrix	Mass (kg)	Count Rate (CPS)	Temp. (°C)	Photo Presented in Report ID
22-1058	NB7176	TRA/HR/2022/2512/209/C	01/06/2022	Concrete	0.3089	3	-4.3	22-1058 Photos in depth, page 46
22-1058	NB7177	TRA/HR/2022/2771/211/C	08/06/2022	Concrete	0.4373	5	-4.7	22-1058 Photos in depth, page 47
22-1058	NB7178	TRA/HR/2022/2771/213/C	08/06/2022	Concrete	1.0221	5	-7.8	22-1058 Photos in depth, page 48
22-1058	NB7179	TRA/HR/2022/2771/215/C	08/06/2022	Concrete	0.7652	4	-10	22-1058 Photos in depth, page 49
22-1058	NB7180	TRA/HR/2022/2771/217/C	08/06/2022	Concrete	0.3739	7	-3.2	22-1058 Photos in depth, page 50
22-1058	NB7181	TRA/HR/2022/2771/219/C	09/06/2022	Concrete	0.3029	7	4	22-1058 Photos in depth, page 51
22-1058	NB7182	TRA/HR/2022/2771/221/C	09/06/2022	Concrete	0.2947	4	7.6	22-1058 Photos in depth, page 52
22-1058	NB7183	TRA/HR/2022/2771/222/C	09/06/2022	Concrete	0.3793	5	4.6	22-1058 Photos in depth, page 53
22-1058	NB7184	TRA/HR/2022/2771/223/C	09/06/2022	Concrete	0.2538	4	6.7	22-1058 Photos in depth, page 54
22-1058	NB7185	TRA/HR/2022/2771/224/C	09/06/2022	Concrete	0.2542	4	13.7	22-1058 Photos in depth, page 55
22-1058	NB7186	TRA/HR/2022/2771/227/C	09/06/2022	Concrete	0.3120	6	6.8	22-1058 Photos in depth, page 56
22-1058	NB7187	TRA/HR/2022/2771/228/C	09/06/2022	Concrete	0.3591	4	5.8	22-1058 Photos in depth, page 57
22-1058	NB7188	TRA/HR/2022/2771/229/C	09/06/2022	Concrete	0.2951	4	14.7	22-1058 Photos in depth, page 58
23-0201	NC1086	Bulk Paint Sample 1	09/03/2023	Bulk Paint (flakes)	0.01	4	20	No photograph taken
23-0201	NC1087	Bulk Paint Sample 2	09/03/2023	Bulk Paint (flakes)	0.01	4	20	No photograph taken
23-0201	NB6530L	TRA/HR/2022/1E91/004/F	29/06/2022	Leach from Roofing felt	0.0742	5	16.6	No photograph taken
23-0201	NB6531L	TRA/HR/2022/1E91/005/F	29/06/2022	Leach from Roofing felt	0.1159	4	16.6	No photograph taken
23-0201	NB6536L	TRA/HR/2022/1E91/013/F	04/07/2022	Leach from Roofing felt	0.0964	4	16.6	No photograph taken
23-0201	NB6538L	TRA/HR/2022/1E91/015/F	04/07/2022	Leach from Roofing felt	0.0975	4	16.6	No photograph taken

Table 2. Sample mass received and reference to visual observations (Photographs)

Job ID	Sample ID	Customer Sample Reference	Sampling Date	Matrix	Mass (kg)	Count Rate (CPS)	Temp. (°C)	Photo Presented in Report ID
23-0201	NB6540L	TRA/HR/2022/1E91/018/F	04/07/2022	Leach from Roofing felt	0.0783	4	16.6	No photograph taken
23-0201	NB6541L	TRA/HR/2022/1E91/019/F	04/07/2022	Leach from Roofing felt	0.0764	6	16.6	No photograph taken
23-0201	NB6542L	TRA/HR/2022/1E91/020/F	04/07/2022	Leach from Roofing felt	0.0717	4	16.6	No photograph taken
23-0201	NB7034L	TRA/HR/2022/2E91/001/F	07/07/2022	Leach from Roofing felt	0.0447	5	17.4	No photograph taken
23-0201	NB7035L	TRA/HR/2022/2E91/003/F	07/07/2022	Leach from Roofing felt	0.0550	5	5.1	No photograph taken
23-0201	NB7036L	TRA/HR/2022/2E91/004/F	07/07/2022	Leach from Roofing felt	0.0394	4	15.3	No photograph taken
23-0201	NB7037L	TRA/HR/2022/2E91/005/F	07/07/2022	Leach from Roofing felt	0.0458	6	15.3	No photograph taken
23-0201	NB7038L	TRA/HR/2022/2E91/007/F	07/07/2022	Leach from Roofing felt	0.0492	3	17.3	No photograph taken
23-0201	NB7039L	TRA/HR/2022/2E91/008/F	07/07/2022	Leach from Roofing felt	0.0564	5	16.6	No photograph taken
23-0201	NB7040L	TRA/HR/2022/2E91/009/F	07/07/2022	Leach from Roofing felt	0.0558	4	16.3	No photograph taken
23-0201	NB7041L	TRA/HR/2022/2E91/011/F	07/07/2022	Leach from Roofing felt	0.0785	4	8.2	No photograph taken
23-0201	NB6530R	TRA/HR/2022/1E91/004/F	29/06/2022	Residual Roofing felt	0.0742	5	16.6	No photograph taken
23-0201	NB6531R	TRA/HR/2022/1E91/005/F	29/06/2022	Residual Roofing felt	0.1159	4	16.6	No photograph taken
23-0201	NB6536R	TRA/HR/2022/1E91/013/F	04/07/2022	Residual Roofing felt	0.0964	4	16.6	No photograph taken
23-0201	NB6538R	TRA/HR/2022/1E91/015/F	04/07/2022	Residual Roofing felt	0.0975	4	16.6	No photograph taken

Table 2. Sample mass received and reference to visual observations (Photographs)

Job ID	Sample ID	Customer Sample Reference	Sampling Date	Matrix	Mass (kg)	Count Rate (CPS)	Temp. (°C)	Photo Presented in Report ID
23-0201	NB6540R	TRA/HR/2022/1E91/018/F	04/07/2022	Residual Roofing felt	0.0783	4	16.6	No photograph taken
23-0201	NB6541R	TRA/HR/2022/1E91/019/F	04/07/2022	Residual Roofing felt	0.0764	6	16.6	No photograph taken
23-0201	NB6542R	TRA/HR/2022/1E91/020/F	04/07/2022	Residual Roofing felt	0.0717	4	16.6	No photograph taken
23-0201	NB7034R	TRA/HR/2022/2E91/001/F	07/07/2022	Residual Roofing felt	0.0447	5	17.4	No photograph taken; possible asbestos fibres present
23-0201	NB7035R	TRA/HR/2022/2E91/003/F	07/07/2022	Residual Roofing felt	0.0550	5	5.1	No photograph taken; possible asbestos fibres present
23-0201	NB7036R	TRA/HR/2022/2E91/004/F	07/07/2022	Residual Roofing felt	0.0394	4	15.3	No photograph taken; possible asbestos fibres present
23-0201	NB7037R	TRA/HR/2022/2E91/005/F	07/07/2022	Residual Roofing felt	0.0458	6	15.3	No photograph taken; possible asbestos fibres present
23-0201	NB7038R	TRA/HR/2022/2E91/007/F	07/07/2022	Residual Roofing felt	0.0492	3	17.3	No photograph taken; possible asbestos fibres present
23-0201	NB7039R	TRA/HR/2022/2E91/008/F	07/07/2022	Residual Roofing felt	0.0564	5	16.6	No photograph taken; possible asbestos fibres present
23-0201	NB7040R	TRA/HR/2022/2E91/009/F	07/07/2022	Residual Roofing felt	0.0558	4	16.3	No photograph taken; possible asbestos fibres present
23-0201	NB7041R	TRA/HR/2022/2E91/011/F	07/07/2022	Residual Roofing felt	0.0785	4	8.2	No photograph taken; possible asbestos fibres present
23-0814	NC4099	TRA-HR-2022-1751-AS1-C	27/04/2023	Concrete	0.179	5	6.3	23-0814 Photos in depth, page 4
23-0814	NC4100	TRA-HR-2022-1751-AS2-C	27/04/2023	Concrete	0.234	5	6.3	23-0814 Photos in depth, page 5
23-0814	NC4101	TRA-HR-2022-1752-AS3-C	27/04/2023	Concrete	0.209	5	6.3	23-0814 Photos in depth, page 6
23-0814	NC4102	TRA-HR-2022-1752-AS4-C	27/04/2023	Concrete	0.194	5	6.3	23-0814 Photos in depth, page 7
23-0814	NC4103	TRA-HR-2022-1901-AS5-C	27/04/2023	Concrete	0.19	5	6.3	23-0814 Photos in depth, page 8
23-0814	NC4104	TRA-HR-2022-1951-AS7-C	27/04/2023	Concrete	0.198	4	6.3	23-0814 Photos in depth, page 9

Table 2. Sample mass received and reference to visual observations (Photographs)

Job ID	Sample ID	Customer Sample Reference	Sampling Date	Matrix	Mass (kg)	Count Rate (CPS)	Temp. (°C)	Photo Presented in Report ID
23-0814	NC4105	TRA-HR-2022-2752-AS8-C	09/05/2023	Concrete	0.199	4	6.3	23-0814 Photos in depth, page 10
23-0814	NC4106	TRA-HR-2022-2071-AS12-C	09/05/2023	Concrete	0.112	5	6.3	23-0814 Photos in depth, page 11
23-0814	NC4107	TRA-HR-2022-1751-AS1-T	27/04/2023	Solid: Taki Rag	0.067	5	6.3	23-0814 Photos in depth, page 12
23-0814	NC4108	TRA-HR-2022-1751-AS2-T	27/04/2023	Solid: Taki Rag	0.066	5	6.3	23-0814 Photos in depth, page 13
23-0814	NC4109	TRA-HR-2022-1752-AS3-T	27/04/2023	Solid: Taki Rag	0.067	5	6.3	23-0814 Photos in depth, page 14
23-0814	NC4110	TRA-HR-2022-1752-AS4-T	27/04/2023	Solid: Taki Rag	0.067	5	6.3	23-0814 Photos in depth, page 15
23-0814	NC4111	TRA-HR-2022-1901-AS5-T	27/04/2023	Solid: Taki Rag	0.064	5	6.3	23-0814 Photos in depth, page 16
23-0814	NC4112	TRA-HR-2022-1951-AS7-T	27/04/2023	Solid: Taki Rag	0.067	4	6.3	23-0814 Photos in depth, page 17
23-0814	NC4113	TRA-HR-2022-2752-AS8-T	09/05/2023	Solid: Taki Rag	0.066	5	6.3	23-0814 Photos in depth, page 18
23-0814	NC4114	TRA-HR-2022-2071-AS12-T	09/05/2023	Solid: Taki Rag	0.066	4	6.3	23-0814 Photos in depth, page 19
23-0814	NC4115	TRA-HR-2022-1901-AS6-C	27/04/2023	Concrete	0.265	5	6.3	23-0814 Photos in depth, page 20
23-0814	NC4116	TRA-HR-2022-2771-AS9-C	09/05/2023	Concrete	0.248	4	6.3	23-0814 Photos in depth, page 21
23-0814	NC4117	TRA-HR-2022-1901-AS6-T	27/04/2023	Solid: Taki Rag	0.064	4	6.3	23-0814 Photos in depth, page 22
23-0814	NC4118	TRA-HR-2022-2771-AS9-T	09/05/2023	Solid: Taki Rag	0.066	5	6.3	23-0814 Photos in depth, page 23
23-0814	NC4119	TRA-HR-2022-2970-AS10-C	11/05/2023	Concrete	0.199	5	6.3	23-0814 Photos in depth, page 24
23-0814	NC4120	TRA-HR-2022-2970-AS10-T	11/05/2023	Solid: Taki Rag	0.064	5	6.3	23-0814 Photos in depth, page 25
23-0814	NC4121	TRA-HR-2022-2970-AS10-S	11/05/2023	Swab: Whatman Paper		4	6.3	23-0814 Photos in depth, page 26
23-0814	NC4122	TRA-HR-2022-2970-AS11-C	09/05/2023	Concrete	0.226	5	6.3	23-0814 Photos in depth, page 27
23-0814	NC4123	TRA-HR-2022-2970-AS11-T	09/05/2023	Solid: Taki Rag	0.065	5	6.3	23-0814 Photos in depth, page 28
23-0814	NC4124	TRA-HR-2022-2970-AS11-S	09/05/2023	Swab: Whatman Paper		5	6.3	23-0814 Photos in depth, page 29
23-0814	NC4125	TRA-HR-2022-2802.north.debris	09/05/2023	Solid: Debris	0.19	7	6.3	23-0814 Photos in depth, page 30

Table 2. Sample mass received and reference to visual observations (Photographs)

Job ID	Sample ID	Customer Sample Reference	Sampling Date	Matrix	Mass (kg)	Count Rate (CPS)	Temp. (°C)	Photo Presented in Report ID
23-0814	NC4126	TRA-HR-2022-2802.east.debris	09/05/2023	Solid: Debris	0.18	12	6.3	23-0814 Photos in depth, page 31
23-0814	NC4127	TRA-HR-2022-2802.south.debris	09/05/2023	Solid: Debris	0.188	8	6.3	23-0814 Photos in depth, page 32
23-0814	NC4128	TRA-HR-2022-2802.west.debris	09/05/2023	Solid: Debris	0.214	12	6.3	23-0814 Photos in depth, page 33
23-0814	NC4241	TRA/HR/2022/1970/085/086/087/088/C	23/06/2022	Concrete: Bulk of NB6613, NB6614, NB6615 & NB6616	Equal parts of each sample was taken to form a bulk			No photo taken of bulk
23-0814	NC4242	TRA/HR/2022/2610/146/158/161, 2670/171/P	27/07/2022	Paint (flakes): Bulk of NB7053, NB7057, NB7058 & NB7062	Equal parts of each sample was taken to form a bulk			No photo taken of bulk
23-0814	NC4243	TRA/HR/2022/1E91/026/034/037C	22/06/2022	Concrete: Bulk of NB6572, NB6576 & NB6577	Equal parts of each sample was taken to form a bulk			No photo taken of bulk
23-0814	NC4244	TRA/HR/2022/2610/181/182/183/184/C	28/07/2022	Concrete: Bulk of NB7160, NB7161, NB7162 & NB7163	Equal parts of each sample was taken to form a bulk			No photo taken of bulk
23-0814	NC4245	TRA/HR/2022/2601/099, 2602/100, 2507/118, 2508/120/C	20/07/2022	Concrete: Bulk of NB7129, NB7132, NB7148 & NB7150	Equal parts of each sample was taken to form a bulk			No photo taken of bulk

Table 3. (Acid) Leachable and residual gross alpha and gross beta radiation in selected roofing felt samples and the debris samples. Note that in the second set of roofing felt samples, asbestos-like fibres were found and no further analyses could be carried out. Gross alpha radiation has been assessed against ^{241}Am calibration source; gross beta radiation was assessed against both ^{14}C and ^{60}Co sources. The matrix and methodology is excluded from our UKAS accreditation, as indicated by the asterisk.

Lab Ref	Customer Reference	Matrix*	Sampling Date (reference date)	Acid Leachable Gross Activity (Bq/g)*			Residual Gross Activity (Bq/g)*		
				Gross Alpha (Am-241)	Gross Beta (C-14)	Gross Beta (Co-60)	Gross Alpha (Am-241)	Gross Beta (C-14)	Gross Beta (Co-60)
NB6530	TRA/HR/2022/1E91/004/F	Roofing felt	29/06/2022	0.0157 ± 0.0055	0.0165 ± 0.0054	0.0196 ± 0.0065	0.0194 ± 0.0092	0.062 ± 0.018	0.071 ± 0.020
NB6531	TRA/HR/2022/1E91/005/F	Roofing felt	29/06/2022	0.0074 ± 0.0025	0.0213 ± 0.0049	0.0302 ± 0.0069	0.0196 ± 0.0068	0.049 ± 0.012	0.059 ± 0.014
NB6536	TRA/HR/2022/1E91/013/F	Roofing felt	04/07/2022	0.0119 ± 0.0078	0.074 ± 0.021	0.085 ± 0.024	<0.045	0.134 ± 0.033	0.159 ± 0.039
NB6538	TRA/HR/2022/1E91/015/F	Roofing felt	04/07/2022	0.019 ± 0.012	0.059 ± 0.019	0.072 ± 0.023	0.033 ± 0.015	0.122 ± 0.03	0.173 ± 0.043
NB6540	TRA/HR/2022/1E91/018/F	Roofing felt	04/07/2022	0.064 ± 0.018	0.114 ± 0.026	0.136 ± 0.031	0.062 ± 0.022	0.202 ± 0.047	0.259 ± 0.061
NB6541	TRA/HR/2022/1E91/019/F	Roofing felt	04/07/2022	0.0164 ± 0.007	0.115 ± 0.025	0.163 ± 0.035	0.036 ± 0.014	0.085 ± 0.023	0.117 ± 0.033
NB6542	TRA/HR/2022/1E91/020/F	Roofing felt	04/07/2022	0.0123 ± 0.0069	0.051 ± 0.015	0.065 ± 0.019	<0.024	<0.039	<0.051
NB7034	TRA/HR/2022/2E91/001/F	Roofing felt	07/07/2022	<0.019	0.071 ± 0.025	0.083 ± 0.028	Possible Asbestos	Possible Asbestos	Possible Asbestos
NB7035	TRA/HR/2022/2E91/003/F	Roofing felt	07/07/2022	0.07 ± 0.022	0.149 ± 0.035	0.179 ± 0.037	Possible Asbestos	Possible Asbestos	Possible Asbestos
NB7036	TRA/HR/2022/2E91/004/F	Roofing felt	07/07/2022	0.03 ± 0.013	0.105 ± 0.027	0.121 ± 0.029	Possible Asbestos	Possible Asbestos	Possible Asbestos
NB7037	TRA/HR/2022/2E91/005/F	Roofing felt	07/07/2022	0.042 ± 0.016	0.11 ± 0.029	0.16 ± 0.036	Possible Asbestos	Possible Asbestos	Possible Asbestos
NB7038	TRA/HR/2022/2E91/007/F	Roofing felt	07/07/2022	0.04 ± 0.016	0.136 ± 0.033	0.162 ± 0.035	Possible Asbestos	Possible Asbestos	Possible Asbestos
NB7039	TRA/HR/2022/2E91/008/F	Roofing felt	07/07/2022	0.042 ± 0.011	0.072 ± 0.016	0.087 ± 0.017	Possible Asbestos	Possible Asbestos	Possible Asbestos
NB7040	TRA/HR/2022/2E91/009/F	Roofing felt	07/07/2022	0.026 ± 0.0088	0.055 ± 0.014	0.065 ± 0.015	Possible Asbestos	Possible Asbestos	Possible Asbestos
NB7041	TRA/HR/2022/2E91/011/F	Roofing felt	07/07/2022	0.053 ± 0.016	0.14 ± 0.031	0.199 ± 0.034	Possible Asbestos	Possible Asbestos	Possible Asbestos
NC4125	TRA-HR-2022-2802.north.debris	Debris	09/05/2023	Not Determined	Not Determined	Not Determined	0.040 ± 0.021	2.45 ± 0.51	1.85 ± 0.38
NC4126	TRA-HR-2022-2802.east.debris	Debris	09/05/2023	Not Determined	Not Determined	Not Determined	0.088 ± 0.032	3.66 ± 0.74	2.31 ± 0.47
NC4127	TRA-HR-2022-2802.south.debris	Debris	09/05/2023	Not Determined	Not Determined	Not Determined	0.059 ± 0.023	3.06 ± 0.63	0.96 ± 0.20
NC4128	TRA-HR-2022-2802.west.debris	Debris	09/05/2023	Not Determined	Not Determined	Not Determined	<0.048	1.13 ± 0.27	0.80 ± 0.19

Table 4. (Total) Gross alpha and gross beta radiation in selected samples. Gross alpha radiation has been assessed against ^{241}Am calibration source; gross beta radiation was assessed against both ^{14}C and ^{60}Co sources. The matrix is excluded from our UKAS accreditation, as indicated by the asterisk

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Total Gross Activity (Bq/g)*		
				Gross Alpha (Am-241)	Gross Beta (C-14)	Gross Beta (Co-60)
NB6543	TRA/HR/2022/1751/133/M	Metal	28/06/2022	<0.24	<0.31	<0.32
NB6544	TRA/HR/2022/1651/134/M	Metal	28/06/2022	<0.18	<0.23	<0.27
NB6545	TRA/HR/2022/1610/135/P	Paint (flakes)	24/06/2022	<0.082	<3.4	<0.33
NB6546	TRA/HR/2022/1610/137/P	Paint (flakes)	24/06/2022	0.19 ± 0.11	<4.5	<0.35
NB6547	TRA/HR/2022/1610/141/P	Paint (flakes)	24/06/2022	0.128 ± 0.079	3.3 ± 2.1	<0.25
NB6548	TRA/HR/2022/1610/145/P	Paint (flakes)	24/06/2022	<0.082	4.4 ± 2.4	0.27 ± 0.15
NB6549	TRA/HR/2022/1610/147/P	Paint (flakes)	27/06/2022	0.105 ± 0.065	<3.6	<0.42
NB6550	TRA/HR/2022/1610/151/P	Paint (flakes)	27/06/2022	<0.24	<3.7	<0.32
NB6551	TRA/HR/2022/1610/154/P	Paint (flakes)	27/06/2022	<0.11	<3.4	<0.25
NB6552	TRA/HR/2022/1610/157/P	Paint (flakes)	27/06/2022	<0.1	<3.7	<0.4
NB6553	TRA/HR/2022/1610/159/P	Paint (flakes)	27/06/2022	<0.26	<3.9	<0.34
NB6554	TRA/HR/2022/1610/160/P	Paint (flakes)	27/06/2022	<0.094	<3.5	<0.38
NB6555	TRA/HR/2022/1610/163/P	Paint (flakes)	28/06/2022	<0.16	<5.1	<0.38
NB6556	TRA/HR/2022/1610/167/P	Paint (flakes)	28/06/2022	<0.092	<3.4	<0.37
NB6557	TRA/HR/2022/1670/170/P	Paint (flakes)	28/06/2022	0.169 ± 0.088	<4.3	<0.52
NB6558	TRA/HR/2022/1670/172/P	Paint (flakes)	28/06/2022	<0.082	<3.7	<0.23
NB6559	TRA/HR/2022/1670/174/P	Paint (flakes)	28/06/2022	<0.14	<4.0	<0.3
NB6560	TRA/HR/2022/1670/175/P	Paint (flakes)	28/06/2022	<0.84	<13	<1.2
NB6561	TRA/HR/2022/1670/176/P	Paint (flakes)	29/06/2022	0.33 ± 0.19	<11	<0.98
NB6562	TRA/HR/2022/1670/177/P	Paint (flakes)	29/06/2022	<0.84	<13	<1.1
NB6563	TRA/HR/2022/1670/178/P	Paint (flakes)	29/06/2022	0.121 ± 0.083	<3.8	<0.29

Table 4. (Total) Gross alpha and gross beta radiation in selected samples. Gross alpha radiation has been assessed against ^{241}Am calibration source; gross beta radiation was assessed against both ^{14}C and ^{60}Co sources. The matrix is excluded from our UKAS accreditation, as indicated by the asterisk

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Total Gross Activity (Bq/g)*		
				Gross Alpha (Am-241)	Gross Beta (C-14)	Gross Beta (Co-60)
NB6564	TRA/HR/2022/1670/179/P	Paint (flakes)	29/06/2022	<0.26	<11	<0.99
NB6565	TRA/HR/2022/1605/232/O	Oil / Grease	11/07/2022	<0.044	0.172 ± 0.071	0.196 ± 0.081
NB6566	TRA/HR/2022/1605/233/O	Oil / Grease	11/07/2022	0.078 ± 0.031	0.2 ± 0.053	0.212 ± 0.056
NB6567	TRA/HR/2022/1740/234/O	Oil / Grease	11/07/2022	<0.0023	0.0058 ± 0.0026	0.0062 ± 0.0027
NB6568	TRA/HR/2022/1740/235/O	Oil / Grease	11/07/2022	0.076 ± 0.037	0.48 ± 0.11	0.59 ± 0.14
NB6569	TRA/HR/2022/1E91/021/C	Concrete	22/06/2022	0.48 ± 0.15	6.2 ± 1.3	4.7 ± 1
NB6570	TRA/HR/2022/1E91/024/C	Concrete	22/06/2022	0.34 ± 0.15	4.9 ± 1.1	3.07 ± 0.7
NB6571	TRA/HR/2022/1E91/025/C	Concrete	22/06/2022	0.42 ± 0.14	5.4 ± 1.2	1.69 ± 0.38
NB6572	TRA/HR/2022/1E91/026/C	Concrete	22/06/2022	0.37 ± 0.12	6.4 ± 1.4	4.8 ± 1
NB6573	TRA/HR/2022/1E91/028/C	Concrete	22/06/2022	0.66 ± 0.22	5.2 ± 1.2	3.68 ± 0.84
NB6574	TRA/HR/2022/1E91/032/C	Concrete	22/06/2022	0.56 ± 0.17	4.3 ± 1.0	3.26 ± 0.78
NB6575	TRA/HR/2022/1E91/033/C	Concrete	22/06/2022	0.39 ± 0.17	6.2 ± 1.4	3.93 ± 0.87
NB6576	TRA/HR/2022/1E91/034/C	Concrete	22/06/2022	0.4 ± 0.14	6.0 ± 1.3	1.87 ± 0.41
NB6577	TRA/HR/2022/1E91/037/C	Concrete	22/06/2022	0.41 ± 0.14	5.3 ± 1.2	2.65 ± 0.58
NB6578	TRA/HR/2022/1E91/038/C	Concrete	22/06/2022	0.41 ± 0.14	5.9 ± 1.3	4.44 ± 0.98
NB6579	TRA/HR/2022/1960/041/C	Concrete	14/06/2022	<0.13	5.1 ± 1.1	2.52 ± 0.56
NB6580	TRA/HR/2022/1960/042/C	Concrete	14/06/2022	0.33 ± 0.12	5.0 ± 1.1	3.05 ± 0.69
NB6581	TRA/HR/2022/1960/044/C	Concrete	14/06/2022	0.34 ± 0.13	5.0 ± 1.1	3.12 ± 0.69
NB6582	TRA/HR/2022/1960/046/C	Concrete	14/06/2022	0.27 ± 0.1	4.6 ± 1.1	2.75 ± 0.64
NB6583	TRA/HR/2022/1960/047/C	Concrete	14/06/2022	0.49 ± 0.17	4.6 ± 1.0	2.86 ± 0.64
NB6584	TRA/HR/2022/1960/049/C	Concrete	14/06/2022	0.76 ± 0.23	4.8 ± 1.1	3.42 ± 0.78

Table 4. (Total) Gross alpha and gross beta radiation in selected samples. Gross alpha radiation has been assessed against ^{241}Am calibration source; gross beta radiation was assessed against both ^{14}C and ^{60}Co sources. The matrix is excluded from our UKAS accreditation, as indicated by the asterisk

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Total Gross Activity (Bq/g)*		
				Gross Alpha (Am-241)	Gross Beta (C-14)	Gross Beta (Co-60)
NB6585	TRA/HR/2022/1960/050/C	Concrete	14/06/2022	0.4 ± 0.15	4.3 ± 1.0	2.19 ± 0.53
NB6586	TRA/HR/2022/1960/051/C	Concrete	16/06/2022	0.39 ± 0.13	2.91 ± 0.80	1.75 ± 0.48
NB6587	TRA/HR/2022/1960/052/C	Concrete	16/06/2022	0.6 ± 0.2	4.4 ± 0.99	2.76 ± 0.62
NB6588	TRA/HR/2022/1960/053/C	Concrete	16/06/2022	0.57 ± 0.2	6.4 ± 1.4	4.06 ± 0.89
NB6589	TRA/HR/2022/1960/054/C	Concrete	16/06/2022	0.73 ± 0.21	6.5 ± 1.4	2.04 ± 0.45
NB6590	TRA/HR/2022/1960/055/C	Concrete	16/06/2022	0.49 ± 0.16	6.7 ± 1.5	5.1 ± 1.1
NB6591	TRA/HR/2022/1960/056/C	Concrete	16/06/2022	0.31 ± 0.12	3.48 ± 0.84	1.79 ± 0.43
NB6592	TRA/HR/2022/1960/057/C	Concrete	16/06/2022	0.39 ± 0.13	4.2 ± 1.0	2.51 ± 0.6
NB6593	TRA/HR/2022/1960/058/C	Concrete	16/06/2022	0.51 ± 0.17	4.6 ± 1.1	2.38 ± 0.56
NB6594	TRA/HR/2022/1960/060/C	Concrete	16/06/2022	0.26 ± 0.1	5.3 ± 1.2	3.17 ± 0.72
NB6595	TRA/HR/2022/1960/061/C	Concrete	24/06/2022	0.59 ± 0.18	6.4 ± 1.4	4.8 ± 1.1
NB6596	TRA/HR/2022/1960/062/C	Concrete	24/06/2022	0.7 ± 0.23	7.1 ± 1.6	4.5 ± 0.99
NB6597	TRA/HR/2022/1960/063/C	Concrete	24/06/2022	0.5 ± 0.18	5.6 ± 1.3	1.76 ± 0.42
NB6598	TRA/HR/2022/1960/064/C	Concrete	24/06/2022	0.52 ± 0.16	6.6 ± 1.4	5 ± 1.1
NB6599	TRA/HR/2022/1970/065/C	Concrete	21/06/2022	0.39 ± 0.13	5.6 ± 1.2	2.89 ± 0.63
NB6600	TRA/HR/2022/1970/066/C	Concrete	21/06/2022	0.43 ± 0.14	5.4 ± 1.2	3.23 ± 0.74
NB6601	TRA/HR/2022/1970/068/C	Concrete	21/06/2022	0.64 ± 0.21	4.24 ± 0.98	2.66 ± 0.61
NB6602	TRA/HR/2022/1970/071/C	Concrete	21/06/2022	0.56 ± 0.21	6.4 ± 1.4	4.6 ± 1
NB6603	TRA/HR/2022/1970/072/C	Concrete	21/06/2022	0.58 ± 0.19	5.1 ± 1.2	3.84 ± 0.91
NB6604	TRA/HR/2022/1970/073/C	Concrete	21/06/2022	0.55 ± 0.19	6.3 ± 1.4	3.97 ± 0.87
NB6605	TRA/HR/2022/1970/074/C	Concrete	21/06/2022	0.48 ± 0.16	5.6 ± 1.3	1.77 ± 0.39

Table 4. (Total) Gross alpha and gross beta radiation in selected samples. Gross alpha radiation has been assessed against ^{241}Am calibration source; gross beta radiation was assessed against both ^{14}C and ^{60}Co sources. The matrix is excluded from our UKAS accreditation, as indicated by the asterisk

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Total Gross Activity (Bq/g)*		
				Gross Alpha (Am-241)	Gross Beta (C-14)	Gross Beta (Co-60)
NB6606	TRA/HR/2022/1970/077/C	Concrete	21/06/2022	0.32 ± 0.13	3.74 ± 0.94	2.83 ± 0.71
NB6607	TRA/HR/2022/1970/078/C	Concrete	21/06/2022	0.34 ± 0.14	4.4 ± 1.0	2.19 ± 0.51
NB6608	TRA/HR/2022/1970/079/C	Concrete	21/06/2022	0.26 ± 0.11	4.5 ± 1.1	2.76 ± 0.64
NB6609	TRA/HR/2022/1970/080/C	Concrete	21/06/2022	0.26 ± 0.12	3.25 ± 0.81	2.04 ± 0.51
NB6610	TRA/HR/2022/1970/082/C	Concrete	21/06/2022	0.59 ± 0.2	3.76 ± 0.98	2.65 ± 0.69
NB6611	TRA/HR/2022/1970/083/C	Concrete	21/06/2022	0.255 ± 0.095	4.8 ± 1.1	4.5 ± 1.0
NB6612	TRA/HR/2022/1970/084/C	Concrete	21/06/2022	0.5 ± 0.16	6.1 ± 1.3	2.04 ± 0.44
NB6613	TRA/HR/2022/1970/085/C	Concrete	23/06/2022	0.27 ± 0.1	5.0 ± 1.1	3.76 ± 0.83
NB6614	TRA/HR/2022/1970/086/C	Concrete	23/06/2022	0.32 ± 0.12	4.23 ± 0.96	2.91 ± 0.66
NB6615	TRA/HR/2022/1970/087/C	Concrete	23/06/2022	0.39 ± 0.13	5.5 ± 1.3	3.31 ± 0.75
NB6616	TRA/HR/2022/1970/088/C	Concrete	23/06/2022	0.73 ± 0.24	8.9 ± 1.9	5.6 ± 1.2
NB6617	TRA/HR/2022/1901/089/C	Concrete	23/05/2022	0.45 ± 0.15	6.2 ± 1.4	3.75 ± 0.83
NB6618	TRA/HR/2022/1901/090/C	Concrete	23/05/2022	0.45 ± 0.15	5.3 ± 1.2	3.34 ± 0.74
NB6619	TRA/HR/2022/1901/091/C	Concrete	23/05/2022	0.55 ± 0.17	4.7 ± 1.1	3.31 ± 0.76
NB6620	TRA/HR/2022/1901/092/C	Concrete	23/05/2022	0.36 ± 0.12	4.5 ± 1.1	4.26 ± 0.99
NB6621	TRA/HR/2022/1901/093/C	Concrete	23/05/2022	0.32 ± 0.13	5.4 ± 1.2	2.8 ± 0.62
NB6622	TRA/HR/2022/1951/094/C	Concrete	23/05/2022	0.33 ± 0.11	5.7 ± 1.3	3.42 ± 0.76
NB6623	TRA/HR/2022/1951/095/C	Concrete	23/05/2022	0.65 ± 0.22	6.1 ± 1.3	3.81 ± 0.84
NB6624	TRA/HR/2022/1951/096/C	Concrete	23/05/2022	0.64 ± 0.21	5.2 ± 1.2	3.68 ± 0.82
NB6625	TRA/HR/2022/1951/097/C	Concrete	23/05/2022	0.55 ± 0.17	5.8 ± 1.3	4.35 ± 0.98
NB6626	TRA/HR/2022/1951/098/C	Concrete	23/05/2022	0.57 ± 0.20	6.5 ± 1.4	4.08 ± 0.89

Table 4. (Total) Gross alpha and gross beta radiation in selected samples. Gross alpha radiation has been assessed against ^{241}Am calibration source; gross beta radiation was assessed against both ^{14}C and ^{60}Co sources. The matrix is excluded from our UKAS accreditation, as indicated by the asterisk

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Total Gross Activity (Bq/g)*		
				Gross Alpha (Am-241)	Gross Beta (C-14)	Gross Beta (Co-60)
NB6627	TRA/HR/2022/1601/099/C	Concrete	24/05/2022	0.41 ± 0.14	4.7 ± 1.1	1.48 ± 0.34
NB6628	TRA/HR/2022/1602/104/C	Concrete	24/05/2022	0.43 ± 0.14	7.0 ± 1.5	5.3 ± 1.2
NB6629	TRA/HR/2022/1603/105/C	Concrete	24/05/2022	0.81 ± 0.24	4.9 ± 1.1	3.05 ± 0.69
NB6630	TRA/HR/2022/1651/100/C	Concrete	22/06/2022	0.82 ± 0.25	6.4 ± 1.4	4.6 ± 1
NB6631	TRA/HR/2022/1651/101/C	Concrete	22/06/2022	0.54 ± 0.17	4.5 ± 1.1	3.4 ± 0.81
NB6632	TRA/HR/2022/1651/102/C	Concrete	22/06/2022	0.58 ± 0.21	5.0 ± 1.2	3.16 ± 0.74
NB6633	TRA/HR/2022/1651/103/C	Concrete	22/06/2022	0.55 ± 0.17	5.9 ± 1.3	1.85 ± 0.41
NB6634	TRA/HR/2022/1762/111/C	Concrete	24/05/2022	0.37 ± 0.13	5.1 ± 1.2	3.89 ± 0.88
NB6635	TRA/HR/2022/1652/106/C	Concrete	23/06/2022	0.58 ± 0.18	6.6 ± 1.4	3.37 ± 0.73
NB6636	TRA/HR/2022/1652/107/C	Concrete	23/06/2022	0.65 ± 0.2	4.7 ± 1.0	3.31 ± 0.75
NB6637	TRA/HR/2022/1761/108/C	Concrete	23/05/2022	0.46 ± 0.16	6.7 ± 1.5	5 ± 1.1
NB6638	TRA/HR/2022/1652/109/C	Concrete	23/06/2022	0.52 ± 0.18	5.8 ± 1.3	3.69 ± 0.81
NB6639	TRA/HR/2022/1652/110/C	Concrete	23/06/2022	0.33 ± 0.12	6.1 ± 1.3	1.92 ± 0.41
NB6640	TRA/HR/2022/1763/114/C	Concrete	24/05/2022	0.40 ± 0.13	7.9 ± 1.7	5.9 ± 1.3
NB6641	TRA/HR/2022/1653/112/C	Concrete	23/06/2022	0.25 ± 0.094	4.6 ± 1.0	2.75 ± 0.63
NB6642	TRA/HR/2022/1653/113/C	Concrete	23/06/2022	0.64 ± 0.2	4.9 ± 1.1	3.1 ± 0.68
NB6643	TRA/HR/2022/1653/115/C	Concrete	23/06/2022	0.44 ± 0.16	4.8 ± 1.1	3.45 ± 0.77
NB6644	TRA/HR/2022/1653/116/C	Concrete	23/06/2022	0.32 ± 0.12	5.5 ± 1.2	4.16 ± 0.92
NB6645	TRA/HR/2022/1507/117/C	Concrete	25/05/2022	0.56 ± 0.19	6.6 ± 1.4	4.16 ± 0.9
NB6646	TRA/HR/2022/1507/118/C	Concrete	25/05/2022	0.257 ± 0.093	3.8 ± 0.9	2.29 ± 0.54
NB6647	TRA/HR/2022/1508/119/C	Concrete	25/05/2022	0.58 ± 0.18	6.1 ± 1.4	4.6 ± 1

Table 4. (Total) Gross alpha and gross beta radiation in selected samples. Gross alpha radiation has been assessed against ^{241}Am calibration source; gross beta radiation was assessed against both ^{14}C and ^{60}Co sources. The matrix is excluded from our UKAS accreditation, as indicated by the asterisk

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Total Gross Activity (Bq/g)*		
				Gross Alpha (Am-241)	Gross Beta (C-14)	Gross Beta (Co-60)
NB6648	TRA/HR/2022/1508/120/C	Concrete	25/05/2022	0.76 ± 0.25	5.8 ± 1.3	3.68 ± 0.85
NB6649	TRA/HR/2022/1509/121/C	Concrete	25/05/2022	0.45 ± 0.16	5.7 ± 1.3	1.79 ± 0.41
NB6650	TRA/HR/2022/1509/122/C	Concrete	25/05/2022	0.38 ± 0.14	5.1 ± 1.2	3.82 ± 0.88
NB6651	TRA/HR/2022/1751/123/C	Concrete	25/05/2022	0.63 ± 0.19	5.5 ± 1.2	2.81 ± 0.64
NB6652	TRA/HR/2022/1751/124/C	Concrete	25/05/2022	0.36 ± 0.12	6.2 ± 1.4	3.75 ± 0.83
NB6653	TRA/HR/2022/1752/125/C	Concrete	25/05/2022	0.66 ± 0.22	5.0 ± 1.1	3.16 ± 0.72
NB6654	TRA/HR/2022/1752/126/C	Concrete	25/05/2022	0.77 ± 0.24	5.1 ± 1.2	3.67 ± 0.84
NB6655	TRA/HR/2022/1753/127/C	Concrete	25/05/2022	0.53 ± 0.17	5.5 ± 1.2	4.17 ± 0.94
NB6656	TRA/HR/2022/1753/128/C	Concrete	25/05/2022	0.63 ± 0.21	5.2 ± 1.2	3.3 ± 0.74
NB6657	TRA/HR/2022/1610/180/C	Concrete	29/06/2022	0.55 ± 0.16	6.2 ± 1.3	1.95 ± 0.42
NB6658	TRA/HR/2022/1610/181/C	Concrete	29/06/2022	0.48 ± 0.15	4.8 ± 1.1	3.66 ± 0.84
NB6659	TRA/HR/2022/1610/182/C	Concrete	29/06/2022	1.46 ± 0.49	7.5 ± 2.2	3.9 ± 1.1
NB6660	TRA/HR/2022/1610/183/C	Concrete	29/06/2022	0.36 ± 0.12	5.5 ± 1.2	3.3 ± 0.75
NB6661	TRA/HR/2022/1610/184/C	Concrete	29/06/2022	0.49 ± 0.18	4.9 ± 1.1	3.07 ± 0.68
NB6662	TRA/HR/2022/1605/190/C	Concrete	26/05/2022	0.66 ± 0.22	3.33 ± 0.85	2.37 ± 0.61
NB6663	TRA/HR/2022/1605/191/C	Concrete	26/05/2022	0.60 ± 0.18	6.0 ± 1.3	4.6 ± 1
NB6664	TRA/HR/2022/1605/192/C	Concrete	26/05/2022	0.69 ± 0.23	5.2 ± 1.2	3.29 ± 0.76
NB6665	TRA/HR/2022/1605/193/C	Concrete	26/05/2022	0.42 ± 0.14	4.4 ± 1.0	2.25 ± 0.52
NB6666	TRA/HR/2022/1605/195/C	Concrete	26/05/2022	0.31 ± 0.11	3.69 ± 0.92	2.22 ± 0.55
NB6667	TRA/HR/2022/1605/196/C	Concrete	26/05/2022	0.44 ± 0.18	3.98 ± 0.95	2.5 ± 0.59
NB6668	TRA/HR/2022/1605/197/C	Concrete	26/05/2022	0.59 ± 0.21	4.9 ± 1.1	3.08 ± 0.71

Table 4. (Total) Gross alpha and gross beta radiation in selected samples. Gross alpha radiation has been assessed against ^{241}Am calibration source; gross beta radiation was assessed against both ^{14}C and ^{60}Co sources. The matrix is excluded from our UKAS accreditation, as indicated by the asterisk

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Total Gross Activity (Bq/g)*		
				Gross Alpha (Am-241)	Gross Beta (C-14)	Gross Beta (Co-60)
NB6669	TRA/HR/2022/1605/198/C	Concrete	26/05/2022	0.26 ± 0.12	3.98 ± 0.93	1.98 ± 0.46
NB6670	TRA/HR/2022/1605/201/C	Concrete	01/06/2022	0.171 ± 0.094	3.14 ± 0.80	1.92 ± 0.49
NB6671	TRA/HR/2022/1605/203/C	Concrete	01/06/2022	0.37 ± 0.14	4.8 ± 1.1	3.02 ± 0.68
NB6672	TRA/HR/2022/1605/204/C	Concrete	01/06/2022	0.43 ± 0.14	3.37 ± 0.83	2.37 ± 0.58
NB6673	TRA/HR/2022/1605/205/C	Concrete	01/06/2022	0.252 ± 0.093	5.1 ± 1.1	4.8 ± 1.1
NB6674	TRA/HR/2022/1605/206/C	Concrete	01/06/2022	0.243 ± 0.097	4.4 ± 1.0	2.87 ± 0.66
NB6675	TRA/HR/2022/1605/209/C	Concrete	01/06/2022	0.24 ± 0.11	4.33 ± 0.99	1.45 ± 0.33
NB6676	TRA/HR/2022/1771/211/C	Concrete	08/06/2022	0.39 ± 0.13	4.33 ± 0.96	3.83 ± 0.85
NB6677	TRA/HR/2022/1771/212/C	Concrete	08/06/2022	0.38 ± 0.12	5.4 ± 1.2	4.01 ± 0.88
NB6678	TRA/HR/2022/1754/213/C	Concrete	08/06/2022	0.49 ± 0.17	4.9 ± 1.1	2.53 ± 0.59
NB6679	TRA/HR/2022/1754/215/C	Concrete	08/06/2022	0.38 ± 0.13	5.4 ± 1.2	3.28 ± 0.75
NB6680	TRA/HR/2022/1771/218/C	Concrete	08/06/2022	0.70 ± 0.22	5.1 ± 1.1	3.17 ± 0.71
NB6681	TRA/HR/2022/1755/219/C	Concrete	09/06/2022	0.61 ± 0.21	5.8 ± 1.3	4.1 ± 0.91
NB6682	TRA/HR/2022/1771/220/C	Concrete	09/06/2022	0.50 ± 0.16	6.2 ± 1.4	4.7 ± 1
NB6683	TRA/HR/2022/1771/221/C	Concrete	09/06/2022	0.35 ± 0.14	5.4 ± 1.2	2.75 ± 0.62
NB6684	TRA/HR/2022/1771/223/C	Concrete	09/06/2022	0.31 ± 0.11	5.9 ± 1.3	3.55 ± 0.79
NB6685	TRA/HR/2022/1771/226/C	Concrete	09/06/2022	0.46 ± 0.17	5.5 ± 1.2	3.47 ± 0.75
NB6686	TRA/HR/2022/1755/227/C	Concrete	09/06/2022	0.51 ± 0.19	4.5 ± 1	3.17 ± 0.74
NB7049	TRA/HR/2022/2610/136/P	Paint (flakes)	27/07/2022	0.71 ± 0.34	<6.1	<0.53
NB7050	TRA/HR/2022/2610/139/P	Paint (flakes)	27/07/2022	0.17 ± 0.11	<4.8	<0.35
NB7051	TRA/HR/2022/2610/142/P	Paint (flakes)	27/07/2022	0.36 ± 0.12	7.1 ± 2.6	0.78 ± 0.29

Table 4. (Total) Gross alpha and gross beta radiation in selected samples. Gross alpha radiation has been assessed against ^{241}Am calibration source; gross beta radiation was assessed against both ^{14}C and ^{60}Co sources. The matrix is excluded from our UKAS accreditation, as indicated by the asterisk

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Total Gross Activity (Bq/g)*		
				Gross Alpha (Am-241)	Gross Beta (C-14)	Gross Beta (Co-60)
NB7052	TRA/HR/2022/2610/144/P	Paint (flakes)	27/07/2022	0.33 ± 0.11	8 ± 2.9	0.96 ± 0.35
NB7053	TRA/HR/2022/2610/146/P	Paint (flakes)	27/07/2022	0.216 ± 0.08	9.7 ± 3.1	0.59 ± 0.19
NB7054	TRA/HR/2022/2610/149/P	Paint (flakes)	27/07/2022	0.26 ± 0.13	6.4 ± 3	0.49 ± 0.23
NB7055	TRA/HR/2022/2610/152/P	Paint (flakes)	27/07/2022	0.225 ± 0.086	6.6 ± 2.7	0.64 ± 0.26
NB7056	TRA/HR/2022/2610/154/P	Paint (flakes)	27/07/2022	0.86 ± 0.28	4.5 ± 2.4	0.39 ± 0.21
NB7057	TRA/HR/2022/2610/158/P	Paint (flakes)	27/07/2022	0.45 ± 0.13	9.1 ± 2.9	0.99 ± 0.32
NB7058	TRA/HR/2022/2610/161/P	Paint (flakes)	27/07/2022	0.3 ± 0.097	9.5 ± 2.8	1.13 ± 0.34
NB7059	TRA/HR/2022/2610/163/P	Paint (flakes)	27/07/2022	0.241 ± 0.08	15.1 ± 3.8	0.92 ± 0.23
NB7060	TRA/HR/2022/2610/166/P	Paint (flakes)	27/07/2022	0.38 ± 0.14	4.8 ± 2.5	0.36 ± 0.19
NB7061	TRA/HR/2022/2610/169/P	Paint (flakes)	27/07/2022	0.209 ± 0.082	6.7 ± 2.7	0.65 ± 0.26
NB7062	TRA/HR/2022/2670/171/P	Paint (flakes)	28/07/2022	1 ± 0.34	10.3 ± 3.7	0.89 ± 0.32
NB7063	TRA/HR/2022/2670/173/P	Paint (flakes)	28/07/2022	<0.18	<5.7	<0.43
NB7064	TRA/HR/2022/2670/175/P	Paint (flakes)	28/07/2022	<0.13	<4.7	<0.52
NB7065	TRA/HR/2022/2670/176/P	Paint (flakes)	28/07/2022	<0.25	<3.8	<0.33
NB7066	TRA/HR/2022/2670/177/P	Paint (flakes)	28/07/2022	<0.097	<3.2	<0.24
NB7067	TRA/HR/2022/2670/178/P	Paint (flakes)	28/07/2022	<0.21	<7.6	<0.83
NB7068	TRA/HR/2022/2670/179/P	Paint (flakes)	28/07/2022	<0.12	<4.5	<0.53
NB7069	TRA/HR/2022/2652/132/M	Metal	04/07/2022	<0.17	<0.3	<0.35
NB7070	TRA/HR/2022/2652/134/M	Metal	04/07/2022	<0.2	<0.34	<0.39
NB7071	TRA/HR/2022/2E91/022/C	Concrete	07/07/2022	0.52 ± 0.17	5.1 ± 1.2	3.85 ± 0.9
NB7072	TRA/HR/2022/2E91/024/C	Concrete	07/07/2022	0.48 ± 0.16	6.2 ± 1.3	3.17 ± 0.69

Table 4. (Total) Gross alpha and gross beta radiation in selected samples. Gross alpha radiation has been assessed against ^{241}Am calibration source; gross beta radiation was assessed against both ^{14}C and ^{60}Co sources. The matrix is excluded from our UKAS accreditation, as indicated by the asterisk

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Total Gross Activity (Bq/g)*		
				Gross Alpha (Am-241)	Gross Beta (C-14)	Gross Beta (Co-60)
NB7073	TRA/HR/2022/2E91/027/C	Concrete	07/07/2022	0.54 ± 0.17	6.2 ± 1.3	3.06 ± 0.66
NB7074	TRA/HR/2022/2E91/028/C	Concrete	07/07/2022	0.192 ± 0.09	5.8 ± 1.3	3.48 ± 0.78
NB7075	TRA/HR/2022/2E91/030/C	Concrete	07/07/2022	0.41 ± 0.14	4.5 ± 1	2.29 ± 0.53
NB7076	TRA/HR/2022/2E91/033/C	Concrete	07/07/2022	0.42 ± 0.14	4.2 ± 1	2.55 ± 0.63
NB7077	TRA/HR/2022/2E91/034/C	Concrete	07/07/2022	0.38 ± 0.13	5.4 ± 1.2	4.07 ± 0.91
NB7078	TRA/HR/2022/2E91/036/C	Concrete	07/07/2022	0.46 ± 0.18	4.6 ± 1	2.87 ± 0.65
NB7079	TRA/HR/2022/2E91/037/C	Concrete	07/07/2022	0.3 ± 0.12	5 ± 1.1	2.59 ± 0.58
NB7080	TRA/HR/2022/2E91/039/C	Concrete	07/07/2022	0.31 ± 0.11	4.7 ± 1.1	2.8 ± 0.65
NB7081	TRA/HR/2022/2970/041/C	Concrete	12/07/2022	0.53 ± 0.17	4.9 ± 1.1	3.09 ± 0.68
NB7082	TRA/HR/2022/2970/043/C	Concrete	12/07/2022	0.53 ± 0.19	4.7 ± 1.1	3.37 ± 0.78
NB7083	TRA/HR/2022/2970/044/C	Concrete	12/07/2022	0.35 ± 0.13	5.5 ± 1.2	3.37 ± 0.75
NB7084	TRA/HR/2022/2970/045/C	Concrete	12/07/2022	0.28 ± 0.12	4.08 ± 0.96	2.56 ± 0.6
NB7085	TRA/HR/2022/2970/047/C	Concrete	12/07/2022	0.55 ± 0.18	4.8 ± 1.1	3.37 ± 0.78
NB7086	TRA/HR/2022/2970/048/C	Concrete	12/07/2022	0.27 ± 0.1	5.9 ± 1.3	5.5 ± 1.2
NB7087	TRA/HR/2022/2970/049/C	Concrete	12/07/2022	0.35 ± 0.12	6 ± 1.3	3.97 ± 0.88
NB7088	TRA/HR/2022/2970/050/C	Concrete	12/07/2022	0.37 ± 0.14	4.6 ± 1.1	1.55 ± 0.36
NB7089	TRA/HR/2022/2970/051/C	Concrete	12/07/2022	0.47 ± 0.16	4.4 ± 1	3.89 ± 0.89
NB7090	TRA/HR/2022/2970/052/C	Concrete	12/07/2022	0.4 ± 0.13	6.9 ± 1.5	5.2 ± 1.1
NB7091	TRA/HR/2022/2970/053/C	Concrete	12/07/2022	0.74 ± 0.21	6.3 ± 1.4	3.23 ± 0.7
NB7092	TRA/HR/2022/2970/054/C	Concrete	12/07/2022	0.37 ± 0.12	5.1 ± 1.2	3.05 ± 0.7
NB7093	TRA/HR/2022/2970/055/C	Concrete	12/07/2022	0.85 ± 0.27	6 ± 1.3	3.75 ± 0.84

Table 4. (Total) Gross alpha and gross beta radiation in selected samples. Gross alpha radiation has been assessed against ^{241}Am calibration source; gross beta radiation was assessed against both ^{14}C and ^{60}Co sources. The matrix is excluded from our UKAS accreditation, as indicated by the asterisk

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Total Gross Activity (Bq/g)*		
				Gross Alpha (Am-241)	Gross Beta (C-14)	Gross Beta (Co-60)
NB7094	TRA/HR/2022/2970/058/C	Concrete	12/07/2022	0.9 ± 0.3	6.7 ± 1.6	4.8 ± 1.1
NB7095	TRA/HR/2022/2970/059/C	Concrete	12/07/2022	0.52 ± 0.17	5.2 ± 1.2	3.93 ± 0.91
NB7096	TRA/HR/2022/2970/061/C	Concrete	19/07/2022	0.34 ± 0.12	7.7 ± 1.7	4.6 ± 1
NB7097	TRA/HR/2022/2970/062/C	Concrete	19/07/2022	0.76 ± 0.21	20.3 ± 4.1	15.4 ± 3.1
NB7098	TRA/HR/2022/2970/063/C	Concrete	19/07/2022	0.41 ± 0.18	6.3 ± 1.4	3.97 ± 0.88
NB7099	TRA/HR/2022/2970/064/C	Concrete	19/07/2022	0.38 ± 0.14	5.4 ± 1.2	1.69 ± 0.38
NB7100	TRA/HR/2022/2960/065/C	Concrete	26/07/2022	0.42 ± 0.14	6.3 ± 1.4	4.7 ± 1
NB7101	TRA/HR/2022/2960/067/C	Concrete	26/07/2022	0.48 ± 0.13	6.6 ± 1.4	5 ± 1.1
NB7102	TRA/HR/2022/2960/068/C	Concrete	26/07/2022	0.227 ± 0.09	4.24 ± 0.98	2.55 ± 0.59
NB7103	TRA/HR/2022/2960/070/C	Concrete	26/07/2022	0.56 ± 0.19	4.3 ± 0.98	2.7 ± 0.61
NB7104	TRA/HR/2022/2960/071/C	Concrete	26/07/2022	0.49 ± 0.17	4.9 ± 1.1	3.47 ± 0.77
NB7105	TRA/HR/2022/2960/072/C	Concrete	26/07/2022	0.51 ± 0.16	6.3 ± 1.4	4.8 ± 1
NB7106	TRA/HR/2022/2960/073/C	Concrete	26/07/2022	0.72 ± 0.22	7 ± 1.5	4.41 ± 0.95
NB7107	TRA/HR/2022/2960/074/C	Concrete	26/07/2022	0.66 ± 0.22	5 ± 1.2	1.56 ± 0.39
NB7108	TRA/HR/2022/2960/075/C	Concrete	26/07/2022	0.55 ± 0.17	5.2 ± 1.2	3.91 ± 0.89
NB7109	TRA/HR/2022/2960/076/C	Concrete	26/07/2022	0.39 ± 0.15	4.6 ± 1	2.87 ± 0.64
NB7110	TRA/HR/2022/2960/077/C	Concrete	26/07/2022	0.54 ± 0.18	6.7 ± 1.4	4.8 ± 1
NB7111	TRA/HR/2022/2960/079/C	Concrete	26/07/2022	0.41 ± 0.14	5.1 ± 1.2	3.81 ± 0.87
NB7112	TRA/HR/2022/2960/082/C	Concrete	26/07/2022	0.51 ± 0.19	5.5 ± 1.2	3.5 ± 0.79
NB7113	TRA/HR/2022/2960/083/C	Concrete	26/07/2022	0.37 ± 0.13	5.7 ± 1.3	1.8 ± 0.4
NB7114	TRA/HR/2022/2960/084/C	Concrete	26/07/2022	0.41 ± 0.13	6.9 ± 1.5	5.3 ± 1.1

Table 4. (Total) Gross alpha and gross beta radiation in selected samples. Gross alpha radiation has been assessed against ^{241}Am calibration source; gross beta radiation was assessed against both ^{14}C and ^{60}Co sources. The matrix is excluded from our UKAS accreditation, as indicated by the asterisk

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Total Gross Activity (Bq/g)*		
				Gross Alpha (Am-241)	Gross Beta (C-14)	Gross Beta (Co-60)
NB7115	TRA/HR/2022/2960/085/C	Concrete	26/07/2022	0.51 ± 0.17	5.5 ± 1.2	2.72 ± 0.6
NB7116	TRA/HR/2022/2960/086/C	Concrete	26/07/2022	0.36 ± 0.14	7 ± 1.5	4.24 ± 0.93
NB7117	TRA/HR/2022/2960/087/C	Concrete	26/07/2022	0.43 ± 0.15	6.1 ± 1.3	3.86 ± 0.84
NB7118	TRA/HR/2022/2960/088/C	Concrete	26/07/2022	0.6 ± 0.18	6.4 ± 1.4	4.51 ± 0.99
NB7119	TRA/HR/2022/2901/089/C	Concrete	05/07/2022	0.72 ± 0.25	6.6 ± 1.5	4.15 ± 0.94
NB7120	TRA/HR/2022/2901/090/C	Concrete	05/07/2022	0.34 ± 0.14	3.05 ± 0.84	0.96 ± 0.26
NB7121	TRA/HR/2022/2901/091/C	Concrete	05/07/2022	0.38 ± 0.15	5.3 ± 1.3	3.97 ± 0.95
NB7122	TRA/HR/2022/2901/092/C	Concrete	05/07/2022	0.38 ± 0.15	4.6 ± 1.1	2.27 ± 0.53
NB7123	TRA/HR/2022/2901/093/C	Concrete	05/07/2022	0.43 ± 0.15	6.6 ± 1.5	4.01 ± 0.9
NB7124	TRA/HR/2022/2951/094/C	Concrete	05/07/2022	0.38 ± 0.13	4.9 ± 1.1	3.07 ± 0.68
NB7125	TRA/HR/2022/2951/095/C	Concrete	05/07/2022	0.49 ± 0.19	3.47 ± 0.99	2.44 ± 0.7
NB7126	TRA/HR/2022/2951/096/C	Concrete	05/07/2022	0.33 ± 0.12	4.7 ± 1.1	4.5 ± 1.1
NB7127	TRA/HR/2022/2951/097/C	Concrete	05/07/2022	0.32 ± 0.13	4.6 ± 1.1	3.04 ± 0.74
NB7128	TRA/HR/2022/2951/098/C	Concrete	05/07/2022	0.59 ± 0.18	6.7 ± 1.5	2.25 ± 0.49
NB7129	TRA/HR/2022/2601/099/C	Concrete	21/07/2022	0.48 ± 0.19	5.7 ± 1.3	5 ± 1.1
NB7130	TRA/HR/2022/2651/104/C	Concrete	25/07/2022	0.33 ± 0.11	5.6 ± 1.2	4.23 ± 0.92
NB7131	TRA/HR/2022/2651/105/C	Concrete	25/07/2022	0.49 ± 0.15	5.5 ± 1.2	3.3 ± 0.75
NB7132	TRA/HR/2022/2602/100/C	Concrete	21/07/2022	0.63 ± 0.21	4.6 ± 1.1	2.9 ± 0.66
NB7133	TRA/HR/2022/2603/101/C	Concrete	21/07/2022	0.48 ± 0.19	5.2 ± 1.2	3.69 ± 0.86
NB7134	TRA/HR/2022/2651/102/C	Concrete	25/07/2022	0.54 ± 0.18	5.3 ± 1.3	4.03 ± 0.95
NB7135	TRA/HR/2022/2651/103/C	Concrete	25/07/2022	0.61 ± 0.2	5.9 ± 1.3	3.76 ± 0.83

Table 4. (Total) Gross alpha and gross beta radiation in selected samples. Gross alpha radiation has been assessed against ^{241}Am calibration source; gross beta radiation was assessed against both ^{14}C and ^{60}Co sources. The matrix is excluded from our UKAS accreditation, as indicated by the asterisk

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Total Gross Activity (Bq/g)*		
				Gross Alpha (Am-241)	Gross Beta (C-14)	Gross Beta (Co-60)
NB7136	TRA/HR/2022/2652/111/C	Concrete	25/07/2022	0.67 ± 0.21	5.7 ± 1.3	1.8 ± 0.42
NB7137	TRA/HR/2022/2651/106/C	Concrete	25/07/2022	0.28 ± 0.11	4.7 ± 1.1	2.85 ± 0.68
NB7138	TRA/HR/2022/2652/107/C	Concrete	23/06/2022	0.64 ± 0.21	5.3 ± 1.2	3.77 ± 0.84
NB7139	TRA/HR/2022/2652/108/C	Concrete	25/07/2022	0.66 ± 0.2	4.9 ± 1.2	3.72 ± 0.88
NB7140	TRA/HR/2022/2652/109/C	Concrete	25/07/2022	0.53 ± 0.19	5.1 ± 1.2	3.25 ± 0.74
NB7141	TRA/HR/2022/2652/110/C	Concrete	25/07/2022	0.44 ± 0.15	4.8 ± 1.1	1.52 ± 0.35
NB7142	TRA/HR/2022/2653/114/C	Concrete	25/07/2022	0.34 ± 0.12	4.4 ± 1	3.34 ± 0.78
NB7143	TRA/HR/2022/2653/112/C	Concrete	25/07/2022	0.65 ± 0.2	5.5 ± 1.2	3.89 ± 0.86
NB7144	TRA/HR/2022/2653/113/C	Concrete	25/07/2022	0.44 ± 0.14	5.6 ± 1.2	4.19 ± 0.93
NB7145	TRA/HR/2022/2653/115/C	Concrete	25/07/2022	0.7 ± 0.23	6.3 ± 1.4	4 ± 0.88
NB7146	TRA/HR/2022/2653/116/C	Concrete	25/07/2022	0.39 ± 0.14	5.6 ± 1.3	1.76 ± 0.4
NB7147	TRA/HR/2022/2507/117/C	Concrete	20/07/2022	0.47 ± 0.15	5.3 ± 1.2	3.99 ± 0.91
NB7148	TRA/HR/2022/2507/118/C	Concrete	20/07/2022	0.66 ± 0.21	5.3 ± 1.2	3.34 ± 0.74
NB7149	TRA/HR/2022/2508/119/C	Concrete	20/07/2022	0.63 ± 0.21	5.4 ± 1.2	3.86 ± 0.87
NB7150	TRA/HR/2022/2508/120/C	Concrete	20/07/2022	0.42 ± 0.14	5.5 ± 1.2	4.14 ± 0.93
NB7151	TRA/HR/2022/2509/121/C	Concrete	20/07/2022	0.58 ± 0.21	5.5 ± 1.2	3.47 ± 0.79
NB7152	TRA/HR/2022/2509/122/C	Concrete	20/07/2022	0.65 ± 0.19	6.3 ± 1.4	1.97 ± 0.43
NB7153	TRA/HR/2022/2751/123/C	Concrete	21/07/2022	0.38 ± 0.13	5 ± 1.1	3.77 ± 0.85
NB7154	TRA/HR/2022/2751/124/C	Concrete	21/07/2022	0.38 ± 0.13	4.9 ± 1.1	2.97 ± 0.68
NB7155	TRA/HR/2022/2752/125/C	Concrete	21/07/2022	0.41 ± 0.16	5.1 ± 1.2	2.52 ± 0.58
NB7156	TRA/HR/2022/2752/126/C	Concrete	21/07/2022	0.25 ± 0.11	5.5 ± 1.2	3.38 ± 0.75

Table 4. (Total) Gross alpha and gross beta radiation in selected samples. Gross alpha radiation has been assessed against ^{241}Am calibration source; gross beta radiation was assessed against both ^{14}C and ^{60}Co sources. The matrix is excluded from our UKAS accreditation, as indicated by the asterisk

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Total Gross Activity (Bq/g)*		
				Gross Alpha (Am-241)	Gross Beta (C-14)	Gross Beta (Co-60)
NB7157	TRA/HR/2022/2753/127/C	Concrete	21/07/2022	0.29 ± 0.1	5.1 ± 1.2	4.8 ± 1.1
NB7158	TRA/HR/2022/2753/128/C	Concrete	21/07/2022	0.37 ± 0.12	5.2 ± 1.2	3.41 ± 0.76
NB7159	TRA/HR/2022/2670/180/C	Concrete	28/07/2022	0.47 ± 0.16	5.5 ± 1.2	1.85 ± 0.41
NB7160	TRA/HR/2022/2610/181/C	Concrete	28/07/2022	0.65 ± 0.2	4.9 ± 1.1	4.37 ± 0.99
NB7161	TRA/HR/2022/2610/182/C	Concrete	28/07/2022	0.27 ± 0.1	5.1 ± 1.1	3.83 ± 0.84
NB7162	TRA/HR/2022/2610/183/C	Concrete	28/07/2022	0.28 ± 0.11	4.45 ± 0.99	3.07 ± 0.68
NB7163	TRA/HR/2022/2610/184/C	Concrete	28/07/2022	0.31 ± 0.11	4.6 ± 1.1	2.77 ± 0.64
NB7164	TRA/HR/2022/2605/190/C	Concrete	26/05/2022	0.45 ± 0.17	4.8 ± 1.1	3 ± 0.67
NB7165	TRA/HR/2022/2605/191/C	Concrete	26/05/2022	0.71 ± 0.23	5.7 ± 1.3	4.1 ± 0.91
NB7166	TRA/HR/2022/2605/194/C	Concrete	26/05/2022	0.42 ± 0.14	5 ± 1.1	3.76 ± 0.85
NB7167	TRA/HR/2022/2605/195/C	Concrete	26/05/2022	0.55 ± 0.2	6 ± 1.3	3.82 ± 0.85
NB7168	TRA/HR/2022/2605/196/C	Concrete	26/05/2022	0.46 ± 0.16	6.6 ± 1.5	2.08 ± 0.46
NB7169	TRA/HR/2022/2605/198/C	Concrete	26/05/2022	0.66 ± 0.19	6.4 ± 1.4	4.8 ± 1.1
NB7170	TRA/HR/2022/2605/201/C	Concrete	01/06/2022	0.262 ± 0.096	5.7 ± 1.2	3.4 ± 0.75
NB7171	TRA/HR/2022/2605/203/C	Concrete	01/06/2022	0.57 ± 0.19	4.6 ± 1	2.89 ± 0.64
NB7172	TRA/HR/2022/2605/204/C	Concrete	01/06/2022	0.53 ± 0.18	3.64 ± 0.87	2.6 ± 0.62
NB7173	TRA/HR/2022/2605/205/C	Concrete	01/06/2022	0.43 ± 0.14	5.2 ± 1.2	3.13 ± 0.73
NB7174	TRA/HR/2022/2605/206/C	Concrete	01/06/2022	0.77 ± 0.24	5.5 ± 1.2	3.44 ± 0.77
NB7175	TRA/HR/2022/2514/208/C	Concrete	01/06/2022	0.62 ± 0.21	5.7 ± 1.3	4.04 ± 0.9
NB7176	TRA/HR/2022/2512/209/C	Concrete	01/06/2022	0.73 ± 0.21	5.8 ± 1.3	4.4 ± 1.0
NB7177	TRA/HR/2022/2771/211/C	Concrete	08/06/2022	0.76 ± 0.24	6.5 ± 1.4	4.09 ± 0.9

Table 4. (Total) Gross alpha and gross beta radiation in selected samples. Gross alpha radiation has been assessed against ^{241}Am calibration source; gross beta radiation was assessed against both ^{14}C and ^{60}Co sources. The matrix is excluded from our UKAS accreditation, as indicated by the asterisk

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Total Gross Activity (Bq/g)*		
				Gross Alpha (Am-241)	Gross Beta (C-14)	Gross Beta (Co-60)
NB7178	TRA/HR/2022/2771/213/C	Concrete	08/06/2022	0.66 ± 0.2	8 ± 1.7	2.52 ± 0.55
NB7179	TRA/HR/2022/2771/215/C	Concrete	08/06/2022	0.69 ± 0.19	6.4 ± 1.4	4.8 ± 1.1
NB7180	TRA/HR/2022/2771/217/C	Concrete	08/06/2022	0.27 ± 0.1	6.2 ± 1.4	5.8 ± 1.3
NB7181	TRA/HR/2022/2771/219/C	Concrete	09/06/2022	0.33 ± 0.11	5 ± 1.1	3.28 ± 0.74
NB7182	TRA/HR/2022/2771/221/C	Concrete	09/06/2022	0.38 ± 0.14	5.1 ± 1.1	1.7 ± 0.38
NB7183	TRA/HR/2022/2771/222/C	Concrete	09/06/2022	0.41 ± 0.16	5.2 ± 1.2	4.6 ± 1
NB7184	TRA/HR/2022/2771/223/C	Concrete	09/06/2022	0.41 ± 0.13	5.5 ± 1.2	4.12 ± 0.89
NB7185	TRA/HR/2022/2771/224/C	Concrete	09/06/2022	0.24 ± 0.11	4.5 ± 1	3.09 ± 0.71
NB7186	TRA/HR/2022/2771/227/C	Concrete	09/06/2022	0.34 ± 0.11	6.1 ± 1.3	3.65 ± 0.8
NB7187	TRA/HR/2022/2771/228/C	Concrete	09/06/2022	0.74 ± 0.25	4.4 ± 1.1	2.77 ± 0.66
NB7188	TRA/HR/2022/2771/229/C	Concrete	09/06/2022	0.48 ± 0.18	5.5 ± 1.2	3.91 ± 0.87
NC4106	TRA-HR-2022-2071-AS12-C	Concrete	09/05/2023	0.91 ± 0.25	5.3 ± 1.1	3.31 ± 0.72
NC4115	TRA-HR-2022-1901-AS6-C	Concrete	27/04/2023	0.71 ± 0.22	5.7 ± 1.2	4.03 ± 0.88
NC4116	TRA-HR-2022-2771-AS9-C	Concrete	09/05/2023	0.70 ± 0.19	6.5 ± 1.4	4.9 ± 1.1
NC4119	TRA-HR-2022-2970-AS10-C	Concrete	11/05/2023	1.04 ± 0.28	10.5 ± 2.2	6.6 ± 1.4
NC4125	TRA-HR-2022-2802.north.debris	Debris	09/05/2023	0.46 ± 0.11	11.1 ± 2.2	3.48 ± 0.7
NC4126	TRA-HR-2022-2802.east.debris	Debris	09/05/2023	0.97 ± 0.21	21.8 ± 4.4	16.5 ± 3.3
NC4127	TRA-HR-2022-2802.south.debris	Debris	09/05/2023	0.46 ± 0.11	11.1 ± 2.2	7.0 ± 1.4
NC4128	TRA-HR-2022-2802.west.debris	Debris	09/05/2023	0.97 ± 0.23	7.7 ± 1.6	4.85 ± 0.99

Table 5. Pyrolysis analysis (Tritium and Carbon-14) and gamma spectrometry (^7Be , ^{40}K , ^{235}U , ^{231}Pa). Tritium and Carbon-14 fall under our UKAS accreditation. The matrix is excluded from our UKAS accreditation for gamma spectrometry as indicated by the asterisk; N.D. stands for "Not Determined".

Lab Ref	Customer Ref	Matrix	Sampling Date (reference date)	Pyrolysis Analysis		Gamma Spectrometry*			
				Tritium and Carbon-14		Natural Radionuclides		Uranium-235 Decay Series	
				H-3 (Bq/g)	C-14 (Bq/g)	Be-7 (Bq/g)	K-40 (Bq/g)	U-235 (Bq/g)	Pa-231 (Bq/g)
NB6528	TRA/HR/2022/1E91/001/F	Roofing felt	29/06/2022	<0.21	<0.13	<0.63	<0.27	<0.021	<0.57
NB6529	TRA/HR/2022/1E91/003/F	Roofing felt	29/06/2022	<0.37	0.38 ± 0.14	<0.27	<0.12	<0.0083	<0.23
NB6530	TRA/HR/2022/1E91/004/F	Roofing felt	29/06/2022	<0.31	0.36 ± 0.11	<0.44	<0.19	<0.015	<0.40
NB6531	TRA/HR/2022/1E91/005/F	Roofing felt	29/06/2022	<0.22	<0.097	<0.23	<0.096	<0.0073	<0.21
NB6532	TRA/HR/2022/1E91/007/F	Roofing felt	29/06/2022	<0.17	<0.066	<0.40	<0.17	<0.012	<0.34
NB6533	TRA/HR/2022/1E91/008/F	Roofing felt	29/06/2022	<0.18	<0.089	<0.47	<0.19	<0.015	<0.41
NB6534	TRA/HR/2022/1E91/009/F	Roofing felt	29/06/2022	<0.17	<0.061	<0.33	<0.25	<0.0080	<0.29
NB6535	TRA/HR/2022/1E91/011/F	Roofing felt	04/07/2022	<0.24	<0.097	<0.16	<0.13	<0.0044	<0.16
NB6536	TRA/HR/2022/1E91/013/F	Roofing felt	04/07/2022	1.42 ± 0.28	<0.12	<0.30	<0.25	<0.0085	<0.31
NB6537	TRA/HR/2022/1E91/014/F	Roofing felt	04/07/2022	1.03 ± 0.23	<0.08	<0.22	<0.16	<0.0053	<0.19
NB6538	TRA/HR/2022/1E91/015/F	Roofing felt	04/07/2022	0.67 ± 0.19	<0.073	<0.31	<0.23	<0.0080	<0.30
NB6539	TRA/HR/2022/1E91/016/F	Roofing felt	04/07/2022	0.55 ± 0.13	<0.051	<0.43	<0.31	<0.012	<0.39
NB6540	TRA/HR/2022/1E91/018/F	Roofing felt	04/07/2022	0.32 ± 0.12	<0.056	<0.26	<0.2	<0.0065	<0.25
NB6541	TRA/HR/2022/1E91/019/F	Roofing felt	04/07/2022	0.15 ± 0.14	<0.083	<0.18	<0.14	<0.0047	<0.18
NB6542	TRA/HR/2022/1E91/020/F	Roofing felt	04/07/2022	<0.21	<0.06	<0.37	<0.29	<0.0087	<0.31
NB6543	TRA/HR/2022/1751/133/M	Metal	28/06/2022	0.005 ± 0.006	<0.003	<0.091	<0.049	<0.0025	<0.089
NB6544	TRA/HR/2022/1651/134/M	Metal	28/06/2022	0.012 ± 0.007	<0.003	<0.15	<0.098	<0.0031	<0.11
NB6545	TRA/HR/2022/1610/135/P	Paint (flakes)	24/06/2022	<0.4	<0.21	<1.1	<0.46	<0.032	<0.83
NB6546	TRA/HR/2022/1610/137/P	Paint (flakes)	24/06/2022	<0.67	<0.33	<1.1	<0.64	<0.028	<0.91
NB6547	TRA/HR/2022/1610/141/P	Paint (flakes)	24/06/2022	<0.26	<0.074	<2.0	<1.4	<0.041	<1.6
NB6548	TRA/HR/2022/1610/145/P	Paint (flakes)	24/06/2022	<0.25	0.412 ± 0.065	<1.1	<0.76	<0.022	<0.75

Table 5. Pyrolysis analysis (Tritium and Carbon-14) and gamma spectrometry (^7Be , ^{40}K , ^{235}U , ^{231}Pa). Tritium and Carbon-14 fall under our UKAS accreditation. The matrix is excluded from our UKAS accreditation for gamma spectrometry as indicated by the asterisk; N.D. stands for "Not Determined".

Lab Ref	Customer Ref	Matrix	Sampling Date (reference date)	Pyrolysis Analysis		Gamma Spectrometry*			
				Tritium and Carbon-14		Natural Radionuclides		Uranium-235 Decay Series	
				H-3 (Bq/g)	C-14 (Bq/g)	Be-7 (Bq/g)	K-40 (Bq/g)	U-235 (Bq/g)	Pa-231 (Bq/g)
NB6549	TRA/HR/2022/1610/147/P	Paint (flakes)	27/06/2022	<0.24	<0.059	<1.4	<0.76	<0.038	<1.4
NB6550	TRA/HR/2022/1610/151/P	Paint (flakes)	27/06/2022	<0.24	<0.07	<1.5	<0.57	<0.043	<1.2
NB6551	TRA/HR/2022/1610/154/P	Paint (flakes)	27/06/2022	<0.25	<0.068	<1.0	<0.66	<0.029	<0.92
NB6552	TRA/HR/2022/1610/157/P	Paint (flakes)	27/06/2022	0.476 ± 0.053	<0.045	<1.9	<1.2	<0.040	<1.5
NB6553	TRA/HR/2022/1610/159/P	Paint (flakes)	27/06/2022	0.451 ± 0.061	<0.048	<1.6	<1.1	<0.032	<1.2
NB6554	TRA/HR/2022/1610/160/P	Paint (flakes)	27/06/2022	0.458 ± 0.049	0.036 ± 0.029	<1.3	<0.68	<0.033	<1.1
NB6555	TRA/HR/2022/1610/163/P	Paint (flakes)	28/06/2022	0.36 ± 0.16	<0.046	<1.3	<0.92	<0.030	<1.2
NB6556	TRA/HR/2022/1610/167/P	Paint (flakes)	28/06/2022	0.31 ± 0.19	0.052 ± 0.029	<0.63	<0.41	<0.019	<0.55
NB6557	TRA/HR/2022/1670/170/P	Paint (flakes)	28/06/2022	<0.23	<0.049	<0.89	<0.61	<0.020	<0.71
NB6558	TRA/HR/2022/1670/172/P	Paint (flakes)	28/06/2022	<0.23	<0.046	<1.5	<1.1	<0.033	<1.2
NB6559	TRA/HR/2022/1670/174/P	Paint (flakes)	28/06/2022	<0.22	0.224 ± 0.038	<2.0	<1.1	<0.053	<1.9
NB6560	TRA/HR/2022/1670/175/P	Paint (flakes)	28/06/2022	<0.29	<0.051	<4.8	<3.4	<0.11	<3.9
NB6561	TRA/HR/2022/1670/176/P	Paint (flakes)	29/06/2022	<0.34	<0.071	<1.0	<0.61	<0.028	<0.86
NB6562	TRA/HR/2022/1670/177/P	Paint (flakes)	29/06/2022	<0.23	<0.045	<2.4	<1.4	<0.062	<2.3
NB6563	TRA/HR/2022/1670/178/P	Paint (flakes)	29/06/2022	<0.31	<0.087	<4.7	<1.9	<0.15	<4.0
NB6564	TRA/HR/2022/1670/179/P	Paint (flakes)	29/06/2022	<0.23	<0.069	<2.2	<1.3	<0.059	<2.1
NB6565	TRA/HR/2022/1605/232/O	Oil / Grease	11/07/2022	1.52 ± 0.25	0.081 ± 0.041	<0.38	<0.32	<0.011	<0.36
NB6566	TRA/HR/2022/1605/233/O	Oil / Grease	11/07/2022	1.57 ± 0.31	0.143 ± 0.053	<0.53	<0.46	<0.014	<0.49
NB6567	TRA/HR/2022/1740/234/O	Oil / Grease	11/07/2022	<0.21	<0.065	<1.2	<0.74	<0.036	<1.3
NB6568	TRA/HR/2022/1740/235/O	Oil / Grease	11/07/2022	0.075 ± 0.087	<0.052	<0.11	0.14 ± 0.047	<0.0040	<0.12
NB6569	TRA/HR/2022/1E91/021/C	Concrete	22/06/2022	<0.01	0.019 ± 0.003	<0.062	0.62 ± 0.061	<0.0015	<0.051

Table 5. Pyrolysis analysis (Tritium and Carbon-14) and gamma spectrometry (^7Be , ^{40}K , ^{235}U , ^{231}Pa). Tritium and Carbon-14 fall under our UKAS accreditation. The matrix is excluded from our UKAS accreditation for gamma spectrometry as indicated by the asterisk; N.D. stands for "Not Determined".

Lab Ref	Customer Ref	Matrix	Sampling Date (reference date)	Pyrolysis Analysis		Gamma Spectrometry*			
				Tritium and Carbon-14		Natural Radionuclides		Uranium-235 Decay Series	
				H-3 (Bq/g)	C-14 (Bq/g)	Be-7 (Bq/g)	K-40 (Bq/g)	U-235 (Bq/g)	Pa-231 (Bq/g)
NB6570	TRA/HR/2022/1E91/024/C	Concrete	22/06/2022	0.006 ± 0.005	0.01 ± 0.002	<0.065	0.519 ± 0.057	<0.0014	<0.046
NB6571	TRA/HR/2022/1E91/025/C	Concrete	22/06/2022	<0.008	0.002 ± 0.001	<0.059	0.581 ± 0.055	<0.0017	<0.052
NB6572	TRA/HR/2022/1E91/026/C	Concrete	22/06/2022	0.02 ± 0.006	0.02 ± 0.003	<0.073	0.644 ± 0.068	<0.0021	<0.059
NB6573	TRA/HR/2022/1E91/028/C	Concrete	22/06/2022	0.018 ± 0.006	0.019 ± 0.003	<0.095	0.533 ± 0.068	<0.0021	<0.075
NB6574	TRA/HR/2022/1E91/032/C	Concrete	22/06/2022	0.011 ± 0.007	0.014 ± 0.003	<0.068	0.542 ± 0.064	<0.0015	<0.050
NB6575	TRA/HR/2022/1E91/033/C	Concrete	22/06/2022	0.013 ± 0.007	0.018 ± 0.003	<0.070	0.658 ± 0.061	<0.0019	<0.060
NB6576	TRA/HR/2022/1E91/034/C	Concrete	22/06/2022	0.005 ± 0.006	0.011 ± 0.003	<0.064	0.595 ± 0.057	<0.0017	<0.050
NB6577	TRA/HR/2022/1E91/037/C	Concrete	22/06/2022	0.01 ± 0.006	0.033 ± 0.004	<0.075	0.664 ± 0.067	<0.0018	<0.057
NB6578	TRA/HR/2022/1E91/038/C	Concrete	22/06/2022	0.005 ± 0.005	0.051 ± 0.006	<0.072	0.642 ± 0.068	<0.0015	<0.050
NB6579	TRA/HR/2022/1960/041/C	Concrete	14/06/2022	0.543 ± 0.084	0.604 ± 0.053	<0.16	0.455 ± 0.071	<0.0038	<0.13
NB6580	TRA/HR/2022/1960/042/C	Concrete	14/06/2022	0.14 ± 0.021	0.299 ± 0.028	<0.12	0.458 ± 0.066	<0.0029	<0.077
NB6581	TRA/HR/2022/1960/044/C	Concrete	14/06/2022	0.174 ± 0.027	0.264 ± 0.025	<0.081	0.477 ± 0.054	<0.0068	<0.058
NB6582	TRA/HR/2022/1960/046/C	Concrete	14/06/2022	0.071 ± 0.013	0.27 ± 0.025	<0.087	0.481 ± 0.058	<0.0016	<0.054
NB6583	TRA/HR/2022/1960/047/C	Concrete	14/06/2022	0.218 ± 0.03	0.276 ± 0.026	<0.096	0.448 ± 0.052	<0.0024	<0.074
NB6584	TRA/HR/2022/1960/049/C	Concrete	14/06/2022	0.225 ± 0.03	0.129 ± 0.012	<0.096	0.472 ± 0.054	<0.0086	<0.070
NB6585	TRA/HR/2022/1960/050/C	Concrete	14/06/2022	0.183 ± 0.025	0.121 ± 0.012	<0.13	0.332 ± 0.058	<0.0026	<0.087
NB6586	TRA/HR/2022/1960/051/C	Concrete	16/06/2022	0.468 ± 0.058	0.165 ± 0.016	<0.081	0.275 ± 0.045	<0.0057	<0.052
NB6587	TRA/HR/2022/1960/052/C	Concrete	16/06/2022	0.117 ± 0.017	0.135 ± 0.013	<0.096	0.375 ± 0.047	<0.0025	<0.079
NB6588	TRA/HR/2022/1960/053/C	Concrete	16/06/2022	0.086 ± 0.014	0.15 ± 0.015	<0.11	0.688 ± 0.074	<0.0026	<0.075
NB6589	TRA/HR/2022/1960/054/C	Concrete	16/06/2022	0.179 ± 0.024	0.127 ± 0.012	<0.087	0.629 ± 0.065	<0.0076	<0.065
NB6590	TRA/HR/2022/1960/055/C	Concrete	16/06/2022	0.173 ± 0.023	0.271 ± 0.025	<0.13	0.719 ± 0.094	<0.0025	<0.086

Table 5. Pyrolysis analysis (Tritium and Carbon-14) and gamma spectrometry (^7Be , ^{40}K , ^{235}U , ^{231}Pa). Tritium and Carbon-14 fall under our UKAS accreditation. The matrix is excluded from our UKAS accreditation for gamma spectrometry as indicated by the asterisk; N.D. stands for "Not Determined".

Lab Ref	Customer Ref	Matrix	Sampling Date (reference date)	Pyrolysis Analysis		Gamma Spectrometry*			
				Tritium and Carbon-14		Natural Radionuclides		Uranium-235 Decay Series	
				H-3 (Bq/g)	C-14 (Bq/g)	Be-7 (Bq/g)	K-40 (Bq/g)	U-235 (Bq/g)	Pa-231 (Bq/g)
NB6591	TRA/HR/2022/1960/056/C	Concrete	16/06/2022	0.317 ± 0.04	0.257 ± 0.024	<0.12	0.347 ± 0.052	<0.0028	<0.090
NB6592	TRA/HR/2022/1960/057/C	Concrete	16/06/2022	0.129 ± 0.018	0.197 ± 0.019	<0.15	0.318 ± 0.058	<0.013	<0.10
NB6593	TRA/HR/2022/1960/058/C	Concrete	16/06/2022	0.168 ± 0.021	0.403 ± 0.033	<0.12	0.234 ± 0.051	<0.0098	<0.088
NB6594	TRA/HR/2022/1960/060/C	Concrete	16/06/2022	0.317 ± 0.04	0.668 ± 0.066	<0.083	0.507 ± 0.06	<0.0016	<0.053
NB6595	TRA/HR/2022/1960/061/C	Concrete	24/06/2022	0.116 ± 0.015	0.109 ± 0.011	<0.062	0.581 ± 0.055	<0.0018	<0.057
NB6596	TRA/HR/2022/1960/062/C	Concrete	24/06/2022	0.097 ± 0.013	0.262 ± 0.024	<0.081	0.675 ± 0.069	<0.0023	<0.065
NB6597	TRA/HR/2022/1960/063/C	Concrete	24/06/2022	0.126 ± 0.016	0.293 ± 0.027	<0.096	0.553 ± 0.069	<0.0022	<0.074
NB6598	TRA/HR/2022/1960/064/C	Concrete	24/06/2022	0.092 ± 0.013	0.166 ± 0.016	<0.070	0.735 ± 0.075	<0.0058	<0.054
NB6599	TRA/HR/2022/1970/065/C	Concrete	21/06/2022	0.102 ± 0.015	0.096 ± 0.009	<0.14	0.67 ± 0.079	<0.0032	<0.11
NB6600	TRA/HR/2022/1970/066/C	Concrete	21/06/2022	0.063 ± 0.011	0.086 ± 0.01	<0.076	0.633 ± 0.064	<0.0021	<0.056
NB6601	TRA/HR/2022/1970/068/C	Concrete	21/06/2022	1.09 ± 0.13	0.202 ± 0.018	<0.11	0.444 ± 0.064	<0.0023	<0.078
NB6602	TRA/HR/2022/1970/071/C	Concrete	21/06/2022	0.284 ± 0.035	0.04 ± 0.005	<0.074	0.665 ± 0.069	<0.0016	<0.051
NB6603	TRA/HR/2022/1970/072/C	Concrete	21/06/2022	0.559 ± 0.065	0.11 ± 0.011	<0.082	0.527 ± 0.057	<0.0022	<0.068
NB6604	TRA/HR/2022/1970/073/C	Concrete	21/06/2022	0.087 ± 0.013	0.107 ± 0.011	<0.12	0.582 ± 0.073	<0.0031	<0.088
NB6605	TRA/HR/2022/1970/074/C	Concrete	21/06/2022	0.07 ± 0.01	0.176 ± 0.016	<0.073	0.6 ± 0.062	<0.0018	<0.059
NB6606	TRA/HR/2022/1970/077/C	Concrete	21/06/2022	1.09 ± 0.14	0.319 ± 0.033	<0.064	0.367 ± 0.048	<0.0014	<0.049
NB6607	TRA/HR/2022/1970/078/C	Concrete	21/06/2022	0.122 ± 0.016	0.148 ± 0.014	<0.083	0.48 ± 0.053	<0.0023	<0.072
NB6608	TRA/HR/2022/1970/079/C	Concrete	21/06/2022	0.088 ± 0.012	0.079 ± 0.008	<0.085	0.476 ± 0.054	<0.0023	<0.064
NB6609	TRA/HR/2022/1970/080/C	Concrete	21/06/2022	0.705 ± 0.081	0.082 ± 0.008	<0.082	0.373 ± 0.051	<0.0018	<0.061
NB6610	TRA/HR/2022/1970/082/C	Concrete	21/06/2022	0.149 ± 0.019	0.129 ± 0.013	<0.072	0.505 ± 0.059	<0.0015	<0.049
NB6611	TRA/HR/2022/1970/083/C	Concrete	21/06/2022	0.081 ± 0.014	0.112 ± 0.011	<0.084	0.563 ± 0.059	<0.0022	<0.072

Table 5. Pyrolysis analysis (Tritium and Carbon-14) and gamma spectrometry (^7Be , ^{40}K , ^{235}U , ^{231}Pa). Tritium and Carbon-14 fall under our UKAS accreditation. The matrix is excluded from our UKAS accreditation for gamma spectrometry as indicated by the asterisk; N.D. stands for "Not Determined".

Lab Ref	Customer Ref	Matrix	Sampling Date (reference date)	Pyrolysis Analysis		Gamma Spectrometry*			
				Tritium and Carbon-14		Natural Radionuclides		Uranium-235 Decay Series	
				H-3 (Bq/g)	C-14 (Bq/g)	Be-7 (Bq/g)	K-40 (Bq/g)	U-235 (Bq/g)	Pa-231 (Bq/g)
NB6612	TRA/HR/2022/1970/084/C	Concrete	21/06/2022	0.24 ± 0.032	0.168 ± 0.018	<0.050	0.621 ± 0.058	<0.0014	<0.042
NB6613	TRA/HR/2022/1970/085/C	Concrete	23/06/2022	2.84 ± 0.32	0.161 ± 0.015	<0.048	0.569 ± 0.052	<0.0050	<0.039
NB6614	TRA/HR/2022/1970/086/C	Concrete	23/06/2022	2.27 ± 0.26	0.213 ± 0.021	<0.047	0.544 ± 0.05	<0.0013	<0.040
NB6615	TRA/HR/2022/1970/087/C	Concrete	23/06/2022	5.13 ± 0.57	0.364 ± 0.034	<0.054	0.586 ± 0.053	<0.0056	<0.044
NB6616	TRA/HR/2022/1970/088/C	Concrete	23/06/2022	3.69 ± 0.42	0.261 ± 0.025	<0.081	0.788 ± 0.078	<0.0019	<0.058
NB6617	TRA/HR/2022/1901/089/C	Concrete	23/05/2022	0.085 ± 0.015	0.099 ± 0.011	<0.19	0.649 ± 0.082	<0.0026	<0.095
NB6618	TRA/HR/2022/1901/090/C	Concrete	23/05/2022	0.124 ± 0.016	0.058 ± 0.006	<0.11	0.617 ± 0.066	<0.0015	<0.050
NB6619	TRA/HR/2022/1901/091/C	Concrete	23/05/2022	0.105 ± 0.016	0.068 ± 0.007	<0.16	0.599 ± 0.069	<0.0027	<0.094
NB6620	TRA/HR/2022/1901/092/C	Concrete	23/05/2022	0.116 ± 0.016	0.05 ± 0.005	<0.18	0.469 ± 0.067	<0.0033	<0.092
NB6621	TRA/HR/2022/1901/093/C	Concrete	23/05/2022	0.125 ± 0.017	0.071 ± 0.007	<0.18	0.71 ± 0.086	<0.0026	<0.090
NB6622	TRA/HR/2022/1951/094/C	Concrete	23/05/2022	0.141 ± 0.019	0.089 ± 0.009	<0.13	0.527 ± 0.062	<0.0016	<0.056
NB6623	TRA/HR/2022/1951/095/C	Concrete	23/05/2022	0.079 ± 0.015	0.046 ± 0.005	<0.12	0.669 ± 0.066	<0.0022	<0.068
NB6624	TRA/HR/2022/1951/096/C	Concrete	23/05/2022	0.339 ± 0.039	0.09 ± 0.009	<0.12	0.585 ± 0.061	<0.0021	<0.060
NB6625	TRA/HR/2022/1951/097/C	Concrete	23/05/2022	0.112 ± 0.016	0.064 ± 0.007	<0.076	0.642 ± 0.06	<0.0051	<0.041
NB6626	TRA/HR/2022/1951/098/C	Concrete	23/05/2022	0.055 ± 0.012	0.048 ± 0.005	<0.11	0.651 ± 0.066	<0.0017	<0.058
NB6627	TRA/HR/2022/1601/099/C	Concrete	24/05/2022	0.11 ± 0.017	0.31 ± 0.029	<0.17	0.507 ± 0.076	<0.0021	<0.075
NB6628	TRA/HR/2022/1602/104/C	Concrete	24/05/2022	0.081 ± 0.013	0.094 ± 0.009	<0.11	0.77 ± 0.071	<0.0021	<0.065
NB6629	TRA/HR/2022/1603/105/C	Concrete	24/05/2022	0.074 ± 0.011	0.048 ± 0.005	<0.11	0.647 ± 0.063	<0.0019	<0.055
NB6630	TRA/HR/2022/1651/100/C	Concrete	22/06/2022	0.158 ± 0.02	0.195 ± 0.019	<0.043	0.749 ± 0.063	<0.0048	<0.038
NB6631	TRA/HR/2022/1651/101/C	Concrete	22/06/2022	0.141 ± 0.017	0.084 ± 0.008	<0.061	0.372 ± 0.041	<0.0062	<0.049
NB6632	TRA/HR/2022/1651/102/C	Concrete	22/06/2022	0.17 ± 0.022	0.138 ± 0.013	<0.060	0.532 ± 0.056	<0.0014	<0.045

Table 5. Pyrolysis analysis (Tritium and Carbon-14) and gamma spectrometry (^7Be , ^{40}K , ^{235}U , ^{231}Pa). Tritium and Carbon-14 fall under our UKAS accreditation. The matrix is excluded from our UKAS accreditation for gamma spectrometry as indicated by the asterisk; N.D. stands for "Not Determined".

Lab Ref	Customer Ref	Matrix	Sampling Date (reference date)	Pyrolysis Analysis		Gamma Spectrometry*			
				Tritium and Carbon-14		Natural Radionuclides		Uranium-235 Decay Series	
				H-3 (Bq/g)	C-14 (Bq/g)	Be-7 (Bq/g)	K-40 (Bq/g)	U-235 (Bq/g)	Pa-231 (Bq/g)
NB6633	TRA/HR/2022/1651/103/C	Concrete	22/06/2022	0.127 ± 0.017	0.133 ± 0.013	<0.070	0.635 ± 0.058	<0.0019	<0.060
NB6634	TRA/HR/2022/1762/111/C	Concrete	24/05/2022	0.076 ± 0.012	0.043 ± 0.005	<0.10	0.55 ± 0.057	<0.0019	<0.056
NB6635	TRA/HR/2022/1652/106/C	Concrete	23/06/2022	0.079 ± 0.012	0.073 ± 0.007	<0.070	0.79 ± 0.075	<0.0016	<0.055
NB6636	TRA/HR/2022/1652/107/C	Concrete	23/06/2022	0.082 ± 0.015	0.099 ± 0.01	<0.077	0.573 ± 0.063	<0.0021	<0.060
NB6637	TRA/HR/2022/1761/108/C	Concrete	23/05/2022	0.185 ± 0.024	0.064 ± 0.006	<0.074	0.678 ± 0.061	<0.0013	<0.041
NB6638	TRA/HR/2022/1652/109/C	Concrete	23/06/2022	0.112 ± 0.017	0.139 ± 0.013	<0.055	0.549 ± 0.052	<0.0014	<0.044
NB6639	TRA/HR/2022/1652/110/C	Concrete	23/06/2022	0.151 ± 0.02	0.147 ± 0.014	<0.061	0.654 ± 0.064	<0.0013	<0.046
NB6640	TRA/HR/2022/1763/114/C	Concrete	24/05/2022	0.106 ± 0.015	0.074 ± 0.007	<0.11	0.809 ± 0.075	<0.0020	<0.064
NB6641	TRA/HR/2022/1653/112/C	Concrete	23/06/2022	0.074 ± 0.011	0.09 ± 0.009	<0.064	0.523 ± 0.054	<0.0018	<0.051
NB6642	TRA/HR/2022/1653/113/C	Concrete	23/06/2022	0.498 ± 0.058	0.104 ± 0.011	<0.062	0.606 ± 0.057	<0.0017	<0.047
NB6643	TRA/HR/2022/1653/115/C	Concrete	23/06/2022	0.108 ± 0.015	0.092 ± 0.009	<0.039	0.499 ± 0.046	<0.0011	<0.035
NB6644	TRA/HR/2022/1653/116/C	Concrete	23/06/2022	0.087 ± 0.015	0.064 ± 0.007	<0.055	0.545 ± 0.053	<0.0057	<0.044
NB6645	TRA/HR/2022/1507/117/C	Concrete	25/05/2022	0.087 ± 0.014	0.116 ± 0.012	<0.089	0.612 ± 0.062	<0.0013	<0.043
NB6646	TRA/HR/2022/1507/118/C	Concrete	25/05/2022	0.074 ± 0.012	0.038 ± 0.004	<0.16	0.59 ± 0.068	<0.0028	<0.091
NB6647	TRA/HR/2022/1508/119/C	Concrete	25/05/2022	0.03 ± 0.008	0.019 ± 0.003	<0.060	0.572 ± 0.052	<0.0012	<0.035
NB6648	TRA/HR/2022/1508/120/C	Concrete	25/05/2022	0.068 ± 0.011	0.056 ± 0.006	<0.070	0.569 ± 0.053	<0.0013	<0.041
NB6649	TRA/HR/2022/1509/121/C	Concrete	25/05/2022	0.051 ± 0.008	0.04 ± 0.004	<0.067	0.597 ± 0.054	<0.0012	<0.037
NB6650	TRA/HR/2022/1509/122/C	Concrete	25/05/2022	0.106 ± 0.015	0.125 ± 0.012	<0.084	0.48 ± 0.048	<0.0014	<0.046
NB6651	TRA/HR/2022/1751/123/C	Concrete	25/05/2022	0.089 ± 0.014	0.05 ± 0.005	<0.087	0.564 ± 0.057	<0.0013	<0.042
NB6652	TRA/HR/2022/1751/124/C	Concrete	25/05/2022	0.058 ± 0.011	0.049 ± 0.005	<0.12	0.694 ± 0.067	<0.0022	<0.070
NB6653	TRA/HR/2022/1752/125/C	Concrete	25/05/2022	0.061 ± 0.011	0.056 ± 0.006	<0.11	0.57 ± 0.056	<0.0019	<0.061

Table 5. Pyrolysis analysis (Tritium and Carbon-14) and gamma spectrometry (^7Be , ^{40}K , ^{235}U , ^{231}Pa). Tritium and Carbon-14 fall under our UKAS accreditation. The matrix is excluded from our UKAS accreditation for gamma spectrometry as indicated by the asterisk; N.D. stands for "Not Determined".

Lab Ref	Customer Ref	Matrix	Sampling Date (reference date)	Pyrolysis Analysis		Gamma Spectrometry*			
				Tritium and Carbon-14		Natural Radionuclides		Uranium-235 Decay Series	
				H-3 (Bq/g)	C-14 (Bq/g)	Be-7 (Bq/g)	K-40 (Bq/g)	U-235 (Bq/g)	Pa-231 (Bq/g)
NB6654	TRA/HR/2022/1752/126/C	Concrete	25/05/2022	0.073 ± 0.013	0.066 ± 0.008	<0.094	0.55 ± 0.055	<0.0018	<0.051
NB6655	TRA/HR/2022/1753/127/C	Concrete	25/05/2022	0.092 ± 0.013	0.14 ± 0.016	<0.11	0.59 ± 0.062	<0.0018	<0.058
NB6656	TRA/HR/2022/1753/128/C	Concrete	25/05/2022	0.107 ± 0.016	0.057 ± 0.007	<0.11	0.494 ± 0.056	<0.0016	<0.054
NB6657	TRA/HR/2022/1610/180/C	Concrete	29/06/2022	0.037 ± 0.008	0.024 ± 0.004	<0.059	0.645 ± 0.063	<0.0013	<0.044
NB6658	TRA/HR/2022/1610/181/C	Concrete	29/06/2022	0.043 ± 0.008	0.083 ± 0.009	<0.055	0.488 ± 0.054	<0.0012	<0.041
NB6659	TRA/HR/2022/1610/182/C	Concrete	29/06/2022	0.022 ± 0.006	0.026 ± 0.004	<0.070	0.65 ± 0.067	<0.0015	<0.052
NB6660	TRA/HR/2022/1610/183/C	Concrete	29/06/2022	0.027 ± 0.006	0.044 ± 0.005	<0.056	0.596 ± 0.058	<0.0016	<0.048
NB6661	TRA/HR/2022/1610/184/C	Concrete	29/06/2022	0.038 ± 0.008	0.026 ± 0.003	<0.062	0.73 ± 0.068	<0.0019	<0.060
NB6662	TRA/HR/2022/1605/190/C	Concrete	26/05/2022	0.065 ± 0.011	0.06 ± 0.006	<0.075	0.345 ± 0.039	<0.0053	<0.042
NB6663	TRA/HR/2022/1605/191/C	Concrete	26/05/2022	0.08 ± 0.013	0.089 ± 0.009	<0.091	0.651 ± 0.064	<0.0013	<0.045
NB6664	TRA/HR/2022/1605/192/C	Concrete	26/05/2022	0.079 ± 0.013	0.089 ± 0.009	<0.11	0.576 ± 0.059	<0.0019	<0.064
NB6665	TRA/HR/2022/1605/193/C	Concrete	26/05/2022	0.053 ± 0.01	0.099 ± 0.01	<0.089	0.533 ± 0.053	<0.0016	<0.048
NB6666	TRA/HR/2022/1605/195/C	Concrete	26/05/2022	0.068 ± 0.013	0.093 ± 0.009	<0.085	0.426 ± 0.044	<0.0016	<0.044
NB6667	TRA/HR/2022/1605/196/C	Concrete	26/05/2022	0.312 ± 0.039	0.049 ± 0.005	<0.071	0.454 ± 0.044	<0.0013	<0.038
NB6668	TRA/HR/2022/1605/197/C	Concrete	26/05/2022	0.072 ± 0.012	0.053 ± 0.006	<0.084	0.579 ± 0.056	<0.0013	<0.045
NB6669	TRA/HR/2022/1605/198/C	Concrete	26/05/2022	0.076 ± 0.013	0.083 ± 0.008	<0.089	0.548 ± 0.057	<0.0013	<0.045
NB6670	TRA/HR/2022/1605/201/C	Concrete	01/06/2022	0.079 ± 0.012	0.031 ± 0.004	<0.13	0.482 ± 0.056	<0.0025	<0.078
NB6671	TRA/HR/2022/1605/203/C	Concrete	01/06/2022	0.049 ± 0.009	0.053 ± 0.006	<0.075	0.559 ± 0.054	<0.0013	<0.043
NB6672	TRA/HR/2022/1605/204/C	Concrete	01/06/2022	0.073 ± 0.014	0.06 ± 0.006	<0.095	0.564 ± 0.059	<0.0016	<0.054
NB6673	TRA/HR/2022/1605/205/C	Concrete	01/06/2022	0.083 ± 0.014	0.115 ± 0.011	<0.084	0.567 ± 0.052	<0.0072	<0.055
NB6674	TRA/HR/2022/1605/206/C	Concrete	01/06/2022	0.089 ± 0.014	0.073 ± 0.007	<0.078	0.551 ± 0.052	<0.0017	<0.053

Table 5. Pyrolysis analysis (Tritium and Carbon-14) and gamma spectrometry (^7Be , ^{40}K , ^{235}U , ^{231}Pa). Tritium and Carbon-14 fall under our UKAS accreditation. The matrix is excluded from our UKAS accreditation for gamma spectrometry as indicated by the asterisk; N.D. stands for "Not Determined".

Lab Ref	Customer Ref	Matrix	Sampling Date (reference date)	Pyrolysis Analysis		Gamma Spectrometry*			
				Tritium and Carbon-14		Natural Radionuclides		Uranium-235 Decay Series	
				H-3 (Bq/g)	C-14 (Bq/g)	Be-7 (Bq/g)	K-40 (Bq/g)	U-235 (Bq/g)	Pa-231 (Bq/g)
NB6675	TRA/HR/2022/1605/209/C	Concrete	01/06/2022	0.318 ± 0.041	0.049 ± 0.006	<0.091	0.62 ± 0.065	<0.0015	<0.051
NB6676	TRA/HR/2022/1771/211/C	Concrete	08/06/2022	0.034 ± 0.007	0.026 ± 0.004	<0.090	0.59 ± 0.06	<0.0019	<0.052
NB6677	TRA/HR/2022/1771/212/C	Concrete	08/06/2022	0.024 ± 0.006	0.018 ± 0.003	<0.080	0.583 ± 0.058	<0.0017	<0.049
NB6678	TRA/HR/2022/1754/213/C	Concrete	08/06/2022	0.071 ± 0.014	0.048 ± 0.005	<0.080	0.622 ± 0.061	<0.0018	<0.048
NB6679	TRA/HR/2022/1754/215/C	Concrete	08/06/2022	0.046 ± 0.009	0.043 ± 0.004	<0.088	0.58 ± 0.059	<0.0019	<0.054
NB6680	TRA/HR/2022/1771/218/C	Concrete	08/06/2022	0.071 ± 0.012	0.037 ± 0.004	<0.075	0.6 ± 0.06	<0.0017	<0.049
NB6681	TRA/HR/2022/1755/219/C	Concrete	09/06/2022	0.069 ± 0.012	0.045 ± 0.005	<0.10	0.646 ± 0.066	<0.0021	<0.059
NB6682	TRA/HR/2022/1771/220/C	Concrete	09/06/2022	0.042 ± 0.008	0.015 ± 0.002	<0.076	0.611 ± 0.056	<0.0017	<0.053
NB6683	TRA/HR/2022/1771/221/C	Concrete	09/06/2022	0.01 ± 0.005	0.013 ± 0.002	<0.078	0.673 ± 0.06	<0.0017	<0.053
NB6684	TRA/HR/2022/1771/223/C	Concrete	09/06/2022	0.053 ± 0.013	0.053 ± 0.006	<0.056	0.659 ± 0.059	<0.0013	<0.038
NB6685	TRA/HR/2022/1771/226/C	Concrete	09/06/2022	0.069 ± 0.014	0.044 ± 0.005	<0.090	0.693 ± 0.07	<0.0020	<0.059
NB6686	TRA/HR/2022/1755/227/C	Concrete	09/06/2022	0.081 ± 0.015	0.071 ± 0.007	<0.060	0.517 ± 0.05	<0.0014	<0.041
NB7034	TRA/HR/2022/2E91/001/F	Roofing felt	07/07/2022	<0.076	0.032 ± 0.017	<0.41	<0.24	<0.0086	<0.32
NB7035	TRA/HR/2022/2E91/003/F	Roofing felt	07/07/2022	0.091 ± 0.069	<0.038	<0.30	<0.17	<0.0063	<0.23
NB7036	TRA/HR/2022/2E91/004/F	Roofing felt	07/07/2022	0.056 ± 0.054	<0.03	<0.30	<0.18	<0.0059	<0.21
NB7037	TRA/HR/2022/2E91/005/F	Roofing felt	07/07/2022	<0.11	<0.041	<0.19	<0.094	<0.0045	<0.15
NB7038	TRA/HR/2022/2E91/007/F	Roofing felt	07/07/2022	0.054 ± 0.044	0.018 ± 0.019	<0.39	<0.22	<0.0083	<0.30
NB7039	TRA/HR/2022/2E91/008/F	Roofing felt	07/07/2022	<0.068	0.045 ± 0.015	<0.15	<0.082	<0.0038	<0.12
NB7040	TRA/HR/2022/2E91/009/F	Roofing felt	07/07/2022	0.052 ± 0.045	<0.028	<0.15	<0.082	<0.0039	<0.13
NB7041	TRA/HR/2022/2E91/011/F	Roofing felt	07/07/2022	0.215 ± 0.047	<0.021	<0.18	<0.1	<0.0048	<0.15
NB7042	TRA/HR/2022/2E91/013/F	Roofing felt	07/07/2022	0.066 ± 0.043	<0.038	<0.23	<0.14	<0.0045	<0.16

Table 5. Pyrolysis analysis (Tritium and Carbon-14) and gamma spectrometry (^7Be , ^{40}K , ^{235}U , ^{231}Pa). Tritium and Carbon-14 fall under our UKAS accreditation. The matrix is excluded from our UKAS accreditation for gamma spectrometry as indicated by the asterisk; N.D. stands for "Not Determined".

Lab Ref	Customer Ref	Matrix	Sampling Date (reference date)	Pyrolysis Analysis		Gamma Spectrometry*			
				Tritium and Carbon-14		Natural Radionuclides		Uranium-235 Decay Series	
				H-3 (Bq/g)	C-14 (Bq/g)	Be-7 (Bq/g)	K-40 (Bq/g)	U-235 (Bq/g)	Pa-231 (Bq/g)
NB7043	TRA/HR/2022/2E91/014/F	Roofing felt	07/07/2022	<0.055	<0.026	<0.21	<0.11	<0.0054	<0.18
NB7044	TRA/HR/2022/2E91/015/F	Roofing felt	07/07/2022	<0.091	<0.042	<0.25	<0.15	<0.0052	<0.20
NB7045	TRA/HR/2022/2E91/016/F	Roofing felt	07/07/2022	0.045 ± 0.044	<0.032	<0.32	<0.2	<0.0064	<0.21
NB7046	TRA/HR/2022/2E91/018/F	Roofing felt	07/07/2022	0.037 ± 0.041	<0.019	<0.48	<0.22	<0.012	<0.40
NB7047	TRA/HR/2022/2E91/019/F	Roofing felt	07/07/2022	0.104 ± 0.06	<0.02	<0.31	<0.15	<0.0072	<0.26
NB7048	TRA/HR/2022/2E91/020/F	Roofing felt	07/07/2022	0.058 ± 0.039	<0.029	<0.25	<0.15	<0.0069	<0.23
NB7049	TRA/HR/2022/2610/136/P	Paint (flakes)	27/07/2022	0.34 ± 0.17	<0.043	<0.92	<0.76	<0.025	<0.92
NB7050	TRA/HR/2022/2610/139/P	Paint (flakes)	27/07/2022	0.28 ± 0.17	<0.049	<0.76	<0.65	<0.020	<0.70
NB7051	TRA/HR/2022/2610/142/P	Paint (flakes)	27/07/2022	<0.18	<0.05	<1.2	<0.84	<0.039	<1.5
NB7052	TRA/HR/2022/2610/144/P	Paint (flakes)	27/07/2022	<0.37	<0.15	<0.76	<0.56	<0.025	<0.75
NB7053	TRA/HR/2022/2610/146/P	Paint (flakes)	27/07/2022	<0.32	<0.14	<0.90	<0.68	<0.030	<0.91
NB7054	TRA/HR/2022/2610/149/P	Paint (flakes)	27/07/2022	<0.32	<0.15	<0.91	<0.68	<0.023	<0.83
NB7055	TRA/HR/2022/2610/152/P	Paint (flakes)	27/07/2022	<0.35	<0.14	<1.4	<1.1	<0.033	<1.2
NB7056	TRA/HR/2022/2610/154/P	Paint (flakes)	27/07/2022	<0.34	<0.14	<1.3	<0.8	<0.039	<1.4
NB7057	TRA/HR/2022/2610/158/P	Paint (flakes)	27/07/2022	<0.36	<0.15	<1.4	<1	<0.034	<1.3
NB7058	TRA/HR/2022/2610/161/P	Paint (flakes)	27/07/2022	<0.31	<0.13	<0.94	<0.72	<0.032	<0.99
NB7059	TRA/HR/2022/2610/163/P	Paint (flakes)	27/07/2022	<0.3	<0.13	<0.75	<0.56	<0.025	<0.74
NB7060	TRA/HR/2022/2610/166/P	Paint (flakes)	27/07/2022	<0.3	<0.15	<1.5	<1.3	<0.040	<1.5
NB7061	TRA/HR/2022/2610/169/P	Paint (flakes)	27/07/2022	<0.31	<0.12	<1.6	<1.3	<0.040	<1.6
NB7062	TRA/HR/2022/2670/171/P	Paint (flakes)	28/07/2022	<0.33	<0.16	<1.5	<1.3	<0.040	<1.4
NB7063	TRA/HR/2022/2670/173/P	Paint (flakes)	28/07/2022	<0.33	<0.1	<1.6	<1.4	<0.042	<1.5

Table 5. Pyrolysis analysis (Tritium and Carbon-14) and gamma spectrometry (^7Be , ^{40}K , ^{235}U , ^{231}Pa). Tritium and Carbon-14 fall under our UKAS accreditation. The matrix is excluded from our UKAS accreditation for gamma spectrometry as indicated by the asterisk; N.D. stands for "Not Determined".

Lab Ref	Customer Ref	Matrix	Sampling Date (reference date)	Pyrolysis Analysis		Gamma Spectrometry*			
				Tritium and Carbon-14		Natural Radionuclides		Uranium-235 Decay Series	
				H-3 (Bq/g)	C-14 (Bq/g)	Be-7 (Bq/g)	K-40 (Bq/g)	U-235 (Bq/g)	Pa-231 (Bq/g)
NB7064	TRA/HR/2022/2670/175/P	Paint (flakes)	28/07/2022	<0.31	0.3 ± 0.074	<2.1	<1.8	<0.055	<2.0
NB7065	TRA/HR/2022/2670/176/P	Paint (flakes)	28/07/2022	0.49 ± 0.32	<0.11	<3.1	<2.8	<0.082	<3.0
NB7066	TRA/HR/2022/2670/177/P	Paint (flakes)	28/07/2022	<0.44	<0.16	<2.2	<1.8	<0.054	<1.9
NB7067	TRA/HR/2022/2670/178/P	Paint (flakes)	28/07/2022	0.28 ± 0.23	<0.15	<1.9	<1.7	<0.048	<1.8
NB7068	TRA/HR/2022/2670/179/P	Paint (flakes)	28/07/2022	0.22 ± 0.18	<0.15	<3.8	<2.5	<0.12	<4.1
NB7069	TRA/HR/2022/2652/132/M	Metal	04/07/2022	0.008 ± 0.004	0.003 ± 0.002	<0.12	<0.056	<0.0028	<0.10
NB7070	TRA/HR/2022/2652/134/M	Metal	04/07/2022	<0.011	<0.004	<0.44	<0.2	<0.011	<0.35
NB7071	TRA/HR/2022/2E91/022/C	Concrete	07/07/2022	0.009 ± 0.006	0.048 ± 0.005	<0.063	0.569 ± 0.054	<0.0018	<0.059
NB7072	TRA/HR/2022/2E91/024/C	Concrete	07/07/2022	<0.011	0.027 ± 0.004	<0.073	0.692 ± 0.066	<0.0020	<0.063
NB7073	TRA/HR/2022/2E91/027/C	Concrete	07/07/2022	0.012 ± 0.004	0.024 ± 0.003	<0.045	0.676 ± 0.059	<0.0013	<0.038
NB7074	TRA/HR/2022/2E91/028/C	Concrete	07/07/2022	0.013 ± 0.005	0.042 ± 0.005	<0.045	0.591 ± 0.054	<0.0049	<0.037
NB7075	TRA/HR/2022/2E91/030/C	Concrete	07/07/2022	0.008 ± 0.006	0.013 ± 0.002	<0.039	0.506 ± 0.046	<0.0011	<0.032
NB7076	TRA/HR/2022/2E91/033/C	Concrete	07/07/2022	0.003 ± 0.004	0.015 ± 0.002	<0.058	0.568 ± 0.057	<0.0013	<0.043
NB7077	TRA/HR/2022/2E91/034/C	Concrete	07/07/2022	0.008 ± 0.004	0.01 ± 0.002	<0.057	0.553 ± 0.056	<0.0047	<0.042
NB7078	TRA/HR/2022/2E91/036/C	Concrete	07/07/2022	0.012 ± 0.006	0.064 ± 0.007	<0.059	0.52 ± 0.055	<0.0013	<0.044
NB7079	TRA/HR/2022/2E91/037/C	Concrete	07/07/2022	0.013 ± 0.006	0.054 ± 0.006	<0.056	0.567 ± 0.057	<0.0013	<0.043
NB7080	TRA/HR/2022/2E91/039/C	Concrete	07/07/2022	0.006 ± 0.006	0.017 ± 0.003	<0.064	0.667 ± 0.065	<0.0015	<0.050
NB7081	TRA/HR/2022/2970/041/C	Concrete	12/07/2022	0.404 ± 0.047	0.195 ± 0.019	<0.11	0.411 ± 0.064	<0.0035	<0.095
NB7082	TRA/HR/2022/2970/043/C	Concrete	12/07/2022	0.065 ± 0.013	0.119 ± 0.012	<0.058	0.466 ± 0.052	<0.0018	<0.052
NB7083	TRA/HR/2022/2970/044/C	Concrete	12/07/2022	0.179 ± 0.024	0.264 ± 0.024	<0.092	0.533 ± 0.073	<0.0024	<0.082
NB7084	TRA/HR/2022/2970/045/C	Concrete	12/07/2022	0.182 ± 0.024	0.08 ± 0.008	<0.12	0.473 ± 0.08	<0.0026	<0.092

Table 5. Pyrolysis analysis (Tritium and Carbon-14) and gamma spectrometry (^7Be , ^{40}K , ^{235}U , ^{231}Pa). Tritium and Carbon-14 fall under our UKAS accreditation. The matrix is excluded from our UKAS accreditation for gamma spectrometry as indicated by the asterisk; N.D. stands for "Not Determined".

Lab Ref	Customer Ref	Matrix	Sampling Date (reference date)	Pyrolysis Analysis		Gamma Spectrometry*			
				Tritium and Carbon-14		Natural Radionuclides		Uranium-235 Decay Series	
				H-3 (Bq/g)	C-14 (Bq/g)	Be-7 (Bq/g)	K-40 (Bq/g)	U-235 (Bq/g)	Pa-231 (Bq/g)
NB7085	TRA/HR/2022/2970/047/C	Concrete	12/07/2022	0.351 ± 0.041	0.14 ± 0.013	<0.065	0.665 ± 0.066	<0.0021	<0.068
NB7086	TRA/HR/2022/2970/048/C	Concrete	12/07/2022	0.212 ± 0.029	0.115 ± 0.011	<0.090	0.68 ± 0.078	<0.0029	<0.082
NB7087	TRA/HR/2022/2970/049/C	Concrete	12/07/2022	0.202 ± 0.027	0.098 ± 0.009	<0.041	0.673 ± 0.061	<0.0053	<0.042
NB7088	TRA/HR/2022/2970/050/C	Concrete	12/07/2022	0.36 ± 0.045	0.094 ± 0.009	<0.084	0.517 ± 0.068	<0.0022	<0.075
NB7089	TRA/HR/2022/2970/051/C	Concrete	12/07/2022	0.208 ± 0.027	0.192 ± 0.018	<0.082	0.493 ± 0.069	<0.0074	<0.069
NB7090	TRA/HR/2022/2970/052/C	Concrete	12/07/2022	0.075 ± 0.011	0.121 ± 0.012	<0.091	0.750 ± 0.080	<0.0028	<0.091
NB7091	TRA/HR/2022/2970/053/C	Concrete	12/07/2022	0.126 ± 0.016	0.229 ± 0.022	<0.063	0.675 ± 0.068	<0.0078	<0.061
NB7092	TRA/HR/2022/2970/054/C	Concrete	12/07/2022	0.29 ± 0.038	0.21 ± 0.02	<0.072	0.747 ± 0.078	<0.0024	<0.070
NB7093	TRA/HR/2022/2970/055/C	Concrete	12/07/2022	0.237 ± 0.03	0.414 ± 0.039	<0.049	0.584 ± 0.056	<0.0014	<0.046
NB7094	TRA/HR/2022/2970/058/C	Concrete	12/07/2022	0.273 ± 0.034	0.199 ± 0.02	<0.052	0.670 ± 0.0670	<0.0051	<0.045
NB7095	TRA/HR/2022/2970/059/C	Concrete	12/07/2022	0.315 ± 0.039	0.244 ± 0.023	<0.046	0.552 ± 0.052	<0.0016	<0.054
NB7096	TRA/HR/2022/2970/061/C	Concrete	19/07/2022	0.797 ± 0.094	0.164 ± 0.016	<0.098	0.574 ± 0.071	<0.0031	<0.098
NB7097	TRA/HR/2022/2970/062/C	Concrete	19/07/2022	1.17 ± 0.13	0.187 ± 0.018	<0.056	0.646 ± 0.063	<0.0016	<0.057
NB7098	TRA/HR/2022/2970/063/C	Concrete	19/07/2022	0.192 ± 0.025	0.295 ± 0.027	<0.047	0.532 ± 0.053	<0.0014	<0.047
NB7099	TRA/HR/2022/2970/064/C	Concrete	19/07/2022	0.249 ± 0.031	0.159 ± 0.016	<0.046	0.592 ± 0.059	<0.0050	<0.044
NB7100	TRA/HR/2022/2960/065/C	Concrete	26/07/2022	0.074 ± 0.011	0.08 ± 0.008	<0.087	0.698 ± 0.081	<0.0032	<0.11
NB7101	TRA/HR/2022/2960/067/C	Concrete	26/07/2022	0.138 ± 0.022	0.199 ± 0.019	<0.052	0.671 ± 0.068	<0.0020	<0.059
NB7102	TRA/HR/2022/2960/068/C	Concrete	26/07/2022	0.215 ± 0.028	0.236 ± 0.022	<0.036	0.548 ± 0.052	<0.0014	<0.041
NB7103	TRA/HR/2022/2960/070/C	Concrete	26/07/2022	0.181 ± 0.023	0.239 ± 0.022	<0.073	0.487 ± 0.068	<0.0024	<0.082
NB7104	TRA/HR/2022/2960/071/C	Concrete	26/07/2022	0.121 ± 0.018	0.218 ± 0.02	<0.080	0.626 ± 0.085	<0.0024	<0.079
NB7105	TRA/HR/2022/2960/072/C	Concrete	26/07/2022	0.179 ± 0.025	0.229 ± 0.022	<0.066	0.828 ± 0.079	<0.0025	<0.080

Table 5. Pyrolysis analysis (Tritium and Carbon-14) and gamma spectrometry (^7Be , ^{40}K , ^{235}U , ^{231}Pa). Tritium and Carbon-14 fall under our UKAS accreditation. The matrix is excluded from our UKAS accreditation for gamma spectrometry as indicated by the asterisk; N.D. stands for "Not Determined".

Lab Ref	Customer Ref	Matrix	Sampling Date (reference date)	Pyrolysis Analysis		Gamma Spectrometry*			
				Tritium and Carbon-14		Natural Radionuclides		Uranium-235 Decay Series	
				H-3 (Bq/g)	C-14 (Bq/g)	Be-7 (Bq/g)	K-40 (Bq/g)	U-235 (Bq/g)	Pa-231 (Bq/g)
NB7106	TRA/HR/2022/2960/073/C	Concrete	26/07/2022	0.175 ± 0.024	0.149 ± 0.015	<0.049	0.733 ± 0.069	<0.0019	<0.055
NB7107	TRA/HR/2022/2960/074/C	Concrete	26/07/2022	0.215 ± 0.028	0.176 ± 0.017	<0.034	0.621 ± 0.056	<0.0014	<0.040
NB7108	TRA/HR/2022/2960/075/C	Concrete	26/07/2022	0.243 ± 0.032	0.206 ± 0.02	<0.045	0.580 ± 0.0580	<0.0015	<0.051
NB7109	TRA/HR/2022/2960/076/C	Concrete	26/07/2022	0.091 ± 0.013	0.104 ± 0.01	<0.051	0.647 ± 0.074	<0.0016	<0.052
NB7110	TRA/HR/2022/2960/077/C	Concrete	26/07/2022	0.037 ± 0.007	0.044 ± 0.004	<0.053	0.767 ± 0.073	<0.0021	<0.066
NB7111	TRA/HR/2022/2960/079/C	Concrete	26/07/2022	0.114 ± 0.016	0.151 ± 0.014	<0.052	0.500 ± 0.056	<0.0020	<0.058
NB7112	TRA/HR/2022/2960/082/C	Concrete	26/07/2022	0.158 ± 0.021	0.315 ± 0.029	<0.037	0.594 ± 0.056	<0.0014	<0.045
NB7113	TRA/HR/2022/2960/083/C	Concrete	26/07/2022	0.101 ± 0.016	0.082 ± 0.008	<0.077	0.597 ± 0.075	<0.0024	<0.079
NB7114	TRA/HR/2022/2960/084/C	Concrete	26/07/2022	0.278 ± 0.036	0.158 ± 0.015	<0.065	0.848 ± 0.092	<0.0018	<0.063
NB7115	TRA/HR/2022/2960/085/C	Concrete	26/07/2022	0.065 ± 0.012	0.338 ± 0.033	<0.050	0.672 ± 0.063	<0.0020	<0.064
NB7116	TRA/HR/2022/2960/086/C	Concrete	26/07/2022	0.071 ± 0.012	0.212 ± 0.02	<0.050	0.647 ± 0.065	<0.0020	<0.057
NB7117	TRA/HR/2022/2960/087/C	Concrete	26/07/2022	0.042 ± 0.008	0.244 ± 0.023	<0.033	0.718 ± 0.065	<0.0051	<0.041
NB7118	TRA/HR/2022/2960/088/C	Concrete	26/07/2022	0.059 ± 0.011	0.355 ± 0.033	<0.043	0.663 ± 0.064	<0.0015	<0.048
NB7119	TRA/HR/2022/2901/089/C	Concrete	05/07/2022	0.067 ± 0.013	0.16 ± 0.016	<0.059	0.568 ± 0.061	<0.0013	<0.044
NB7120	TRA/HR/2022/2901/090/C	Concrete	05/07/2022	0.14 ± 0.021	0.091 ± 0.009	<0.069	0.363 ± 0.044	<0.0020	<0.064
NB7121	TRA/HR/2022/2901/091/C	Concrete	05/07/2022	0.022 ± 0.008	0.05 ± 0.006	<0.052	0.549 ± 0.052	<0.0016	<0.045
NB7122	TRA/HR/2022/2901/092/C	Concrete	05/07/2022	0.061 ± 0.012	0.143 ± 0.014	<0.037	0.504 ± 0.045	<0.0012	<0.036
NB7123	TRA/HR/2022/2901/093/C	Concrete	05/07/2022	0.066 ± 0.012	0.117 ± 0.012	<0.056	0.579 ± 0.056	<0.0014	<0.046
NB7124	TRA/HR/2022/2951/094/C	Concrete	05/07/2022	0.085 ± 0.013	0.141 ± 0.014	<0.060	0.572 ± 0.060	<0.0014	<0.046
NB7125	TRA/HR/2022/2951/095/C	Concrete	05/07/2022	0.112 ± 0.015	0.082 ± 0.009	<0.058	0.55 ± 0.052	<0.0018	<0.056
NB7126	TRA/HR/2022/2951/096/C	Concrete	05/07/2022	0.097 ± 0.014	0.111 ± 0.011	<0.056	0.542 ± 0.053	<0.0016	<0.047

Table 5. Pyrolysis analysis (Tritium and Carbon-14) and gamma spectrometry (^7Be , ^{40}K , ^{235}U , ^{231}Pa). Tritium and Carbon-14 fall under our UKAS accreditation. The matrix is excluded from our UKAS accreditation for gamma spectrometry as indicated by the asterisk; N.D. stands for "Not Determined".

Lab Ref	Customer Ref	Matrix	Sampling Date (reference date)	Pyrolysis Analysis		Gamma Spectrometry*			
				Tritium and Carbon-14		Natural Radionuclides		Uranium-235 Decay Series	
				H-3 (Bq/g)	C-14 (Bq/g)	Be-7 (Bq/g)	K-40 (Bq/g)	U-235 (Bq/g)	Pa-231 (Bq/g)
NB7127	TRA/HR/2022/2951/097/C	Concrete	05/07/2022	0.123 ± 0.016	0.056 ± 0.006	<0.043	0.464 ± 0.047	<0.0013	<0.039
NB7128	TRA/HR/2022/2951/098/C	Concrete	05/07/2022	0.041 ± 0.007	0.105 ± 0.011	<0.064	0.73 ± 0.071	<0.0067	<0.055
NB7129	TRA/HR/2022/2601/099/C	Concrete	21/07/2022	0.04 ± 0.007	0.09 ± 0.009	<0.042	0.678 ± 0.065	<0.0013	<0.040
NB7130	TRA/HR/2022/2651/104/C	Concrete	25/07/2022	0.087 ± 0.012	0.12 ± 0.012	<0.051	0.682 ± 0.065	<0.0019	<0.062
NB7131	TRA/HR/2022/2651/105/C	Concrete	25/07/2022	0.108 ± 0.015	0.12 ± 0.012	<0.083	0.650 ± 0.0830	<0.0031	<0.091
NB7132	TRA/HR/2022/2602/100/C	Concrete	21/07/2022	0.105 ± 0.017	0.316 ± 0.03	<0.030	0.546 ± 0.048	<0.0045	<0.034
NB7133	TRA/HR/2022/2603/101/C	Concrete	21/07/2022	0.065 ± 0.012	0.148 ± 0.015	<0.041	0.672 ± 0.062	<0.0014	<0.043
NB7134	TRA/HR/2022/2651/102/C	Concrete	25/07/2022	0.106 ± 0.016	0.105 ± 0.011	<0.048	0.582 ± 0.064	<0.0014	<0.049
NB7135	TRA/HR/2022/2651/103/C	Concrete	25/07/2022	0.074 ± 0.013	0.123 ± 0.012	<0.058	0.612 ± 0.055	<0.0020	<0.055
NB7136	TRA/HR/2022/2652/111/C	Concrete	25/07/2022	0.101 ± 0.015	0.071 ± 0.007	<0.033	0.581 ± 0.043	<0.0046	<0.034
NB7137	TRA/HR/2022/2651/106/C	Concrete	25/07/2022	0.11 ± 0.017	0.042 ± 0.005	<0.046	0.522 ± 0.046	<0.0013	<0.043
NB7138	TRA/HR/2022/2652/107/C	Concrete	23/06/2022	0.114 ± 0.017	0.081 ± 0.008	<0.080	0.618 ± 0.058	<0.0050	<0.047
NB7139	TRA/HR/2022/2652/108/C	Concrete	25/07/2022	0.091 ± 0.013	0.046 ± 0.005	<0.060	0.497 ± 0.045	<0.0019	<0.060
NB7140	TRA/HR/2022/2652/109/C	Concrete	25/07/2022	0.094 ± 0.016	0.149 ± 0.015	<0.064	0.523 ± 0.052	<0.0021	<0.059
NB7141	TRA/HR/2022/2652/110/C	Concrete	25/07/2022	0.085 ± 0.014	0.096 ± 0.01	<0.040	0.464 ± 0.039	<0.0013	<0.038
NB7142	TRA/HR/2022/2653/114/C	Concrete	25/07/2022	0.063 ± 0.011	0.096 ± 0.01	<0.084	0.499 ± 0.061	<0.0021	<0.073
NB7143	TRA/HR/2022/2653/112/C	Concrete	25/07/2022	0.083 ± 0.013	0.094 ± 0.01	<0.052	0.664 ± 0.058	<0.0049	<0.043
NB7144	TRA/HR/2022/2653/113/C	Concrete	25/07/2022	0.054 ± 0.011	0.059 ± 0.006	<0.063	0.572 ± 0.05	<0.0020	<0.062
NB7145	TRA/HR/2022/2653/115/C	Concrete	25/07/2022	0.068 ± 0.011	0.077 ± 0.008	<0.043	0.541 ± 0.043	<0.0013	<0.041
NB7146	TRA/HR/2022/2653/116/C	Concrete	25/07/2022	0.09 ± 0.014	0.059 ± 0.006	<0.047	0.609 ± 0.049	<0.0055	<0.042
NB7147	TRA/HR/2022/2507/117/C	Concrete	20/07/2022	0.088 ± 0.014	0.261 ± 0.025	<0.052	0.541 ± 0.050	<0.0045	<0.040

Table 5. Pyrolysis analysis (Tritium and Carbon-14) and gamma spectrometry (^7Be , ^{40}K , ^{235}U , ^{231}Pa). Tritium and Carbon-14 fall under our UKAS accreditation. The matrix is excluded from our UKAS accreditation for gamma spectrometry as indicated by the asterisk; N.D. stands for "Not Determined".

Lab Ref	Customer Ref	Matrix	Sampling Date (reference date)	Pyrolysis Analysis		Gamma Spectrometry*			
				Tritium and Carbon-14		Natural Radionuclides		Uranium-235 Decay Series	
				H-3 (Bq/g)	C-14 (Bq/g)	Be-7 (Bq/g)	K-40 (Bq/g)	U-235 (Bq/g)	Pa-231 (Bq/g)
NB7148	TRA/HR/2022/2507/118/C	Concrete	20/07/2022	0.047 ± 0.009	0.048 ± 0.005	<0.099	0.666 ± 0.066	<0.0028	<0.091
NB7149	TRA/HR/2022/2508/119/C	Concrete	20/07/2022	0.054 ± 0.01	0.103 ± 0.011	<0.034	0.521 ± 0.038	<0.0011	<0.031
NB7150	TRA/HR/2022/2508/120/C	Concrete	20/07/2022	0.063 ± 0.012	0.051 ± 0.006	<0.058	0.565 ± 0.051	<0.0015	<0.049
NB7151	TRA/HR/2022/2509/121/C	Concrete	20/07/2022	0.071 ± 0.013	0.037 ± 0.005	<0.090	0.592 ± 0.072	<0.0019	<0.066
NB7152	TRA/HR/2022/2509/122/C	Concrete	20/07/2022	0.045 ± 0.009	0.072 ± 0.008	<0.093	0.701 ± 0.065	<0.0026	<0.087
NB7153	TRA/HR/2022/2751/123/C	Concrete	21/07/2022	0.114 ± 0.016	<0.004	<0.067	0.593 ± 0.057	<0.0020	<0.059
NB7154	TRA/HR/2022/2751/124/C	Concrete	21/07/2022	0.056 ± 0.01	0.042 ± 0.005	<0.056	0.604 ± 0.051	<0.0015	<0.050
NB7155	TRA/HR/2022/2752/125/C	Concrete	21/07/2022	0.053 ± 0.009	0.039 ± 0.005	<0.060	0.570 ± 0.048	<0.0065	<0.051
NB7156	TRA/HR/2022/2752/126/C	Concrete	21/07/2022	0.062 ± 0.009	0.12 ± 0.012	<0.043	0.597 ± 0.046	<0.0050	<0.038
NB7157	TRA/HR/2022/2753/127/C	Concrete	21/07/2022	0.038 ± 0.007	0.049 ± 0.005	<0.054	0.585 ± 0.048	<0.0014	<0.046
NB7158	TRA/HR/2022/2753/128/C	Concrete	21/07/2022	0.068 ± 0.011	0.054 ± 0.006	<0.098	0.651 ± 0.075	<0.0020	<0.074
NB7159	TRA/HR/2022/2670/180/C	Concrete	28/07/2022	0.027 ± 0.012	0.011 ± 0.004	<0.046	0.568 ± 0.044	<0.0015	<0.043
NB7160	TRA/HR/2022/2610/181/C	Concrete	28/07/2022	0.043 ± 0.009	0.006 ± 0.002	<0.052	0.622 ± 0.048	<0.0075	<0.056
NB7161	TRA/HR/2022/2610/182/C	Concrete	28/07/2022	0.04 ± 0.009	0.015 ± 0.003	<0.050	0.517 ± 0.046	<0.0017	<0.049
NB7162	TRA/HR/2022/2610/183/C	Concrete	28/07/2022	0.042 ± 0.016	0.048 ± 0.007	<0.034	0.571 ± 0.042	<0.0045	<0.034
NB7163	TRA/HR/2022/2610/184/C	Concrete	28/07/2022	0.031 ± 0.008	0.012 ± 0.003	<0.042	0.450 ± 0.040	<0.0013	<0.041
NB7164	TRA/HR/2022/2605/190/C	Concrete	26/05/2022	0.059 ± 0.012	0.099 ± 0.011	<0.098	0.507 ± 0.045	<0.0012	<0.039
NB7165	TRA/HR/2022/2605/191/C	Concrete	26/05/2022	0.067 ± 0.019	0.025 ± 0.007	<0.14	0.688 ± 0.057	<0.0019	<0.063
NB7166	TRA/HR/2022/2605/194/C	Concrete	26/05/2022	0.035 ± 0.009	0.083 ± 0.008	<0.14	0.527 ± 0.048	<0.0018	<0.051
NB7167	TRA/HR/2022/2605/195/C	Concrete	26/05/2022	0.048 ± 0.009	0.069 ± 0.007	<0.11	0.520 ± 0.045	<0.0043	<0.039
NB7168	TRA/HR/2022/2605/196/C	Concrete	26/05/2022	0.067 ± 0.017	0.054 ± 0.007	<0.11	0.719 ± 0.055	<0.0014	<0.044

Table 5. Pyrolysis analysis (Tritium and Carbon-14) and gamma spectrometry (^7Be , ^{40}K , ^{235}U , ^{231}Pa). Tritium and Carbon-14 fall under our UKAS accreditation. The matrix is excluded from our UKAS accreditation for gamma spectrometry as indicated by the asterisk; N.D. stands for "Not Determined".

Lab Ref	Customer Ref	Matrix	Sampling Date (reference date)	Pyrolysis Analysis		Gamma Spectrometry*			
				Tritium and Carbon-14		Natural Radionuclides		Uranium-235 Decay Series	
				H-3 (Bq/g)	C-14 (Bq/g)	Be-7 (Bq/g)	K-40 (Bq/g)	U-235 (Bq/g)	Pa-231 (Bq/g)
NB7169	TRA/HR/2022/2605/198/C	Concrete	26/05/2022	0.299 ± 0.068	0.051 ± 0.016	<0.11	0.625 ± 0.052	<0.0012	<0.041
NB7170	TRA/HR/2022/2605/201/C	Concrete	01/06/2022	0.048 ± 0.009	0.05 ± 0.006	<0.12	0.728 ± 0.055	<0.0018	<0.060
NB7171	TRA/HR/2022/2605/203/C	Concrete	01/06/2022	0.041 ± 0.007	0.051 ± 0.006	<0.072	0.539 ± 0.040	<0.0048	<0.035
NB7172	TRA/HR/2022/2605/204/C	Concrete	01/06/2022	0.036 ± 0.009	0.046 ± 0.005	<0.068	0.394 ± 0.031	<0.0043	<0.034
NB7173	TRA/HR/2022/2605/205/C	Concrete	01/06/2022	0.037 ± 0.009	0.08 ± 0.008	<0.19	0.710 ± 0.079	<0.0021	<0.074
NB7174	TRA/HR/2022/2605/206/C	Concrete	01/06/2022	0.058 ± 0.012	0.051 ± 0.005	<0.12	0.653 ± 0.057	<0.0049	<0.042
NB7175	TRA/HR/2022/2514/208/C	Concrete	01/06/2022	0.047 ± 0.011	0.029 ± 0.004	<0.14	0.732 ± 0.067	<0.0019	<0.060
NB7176	TRA/HR/2022/2512/209/C	Concrete	01/06/2022	0.085 ± 0.016	0.191 ± 0.018	<0.19	0.630 ± 0.070	<0.0023	<0.075
NB7177	TRA/HR/2022/2771/211/C	Concrete	08/06/2022	0.058 ± 0.011	0.061 ± 0.006	<0.095	0.639 ± 0.052	<0.0014	<0.047
NB7178	TRA/HR/2022/2771/213/C	Concrete	08/06/2022	0.098 ± 0.018	0.067 ± 0.007	<0.11	0.816 ± 0.059	<0.0019	<0.060
NB7179	TRA/HR/2022/2771/215/C	Concrete	08/06/2022	0.054 ± 0.01	0.08 ± 0.008	<0.067	0.602 ± 0.044	<0.0047	<0.035
NB7180	TRA/HR/2022/2771/217/C	Concrete	08/06/2022	0.103 ± 0.017	0.029 ± 0.004	<0.11	0.685 ± 0.058	<0.0016	<0.055
NB7181	TRA/HR/2022/2771/219/C	Concrete	09/06/2022	0.096 ± 0.016	0.071 ± 0.007	<0.12	0.593 ± 0.059	<0.0052	<0.047
NB7182	TRA/HR/2022/2771/221/C	Concrete	09/06/2022	0.053 ± 0.012	0.022 ± 0.003	<0.17	0.626 ± 0.065	<0.0027	<0.092
NB7183	TRA/HR/2022/2771/222/C	Concrete	09/06/2022	0.078 ± 0.015	0.06 ± 0.006	<0.065	0.597 ± 0.043	<0.0047	<0.034
NB7184	TRA/HR/2022/2771/223/C	Concrete	09/06/2022	0.074 ± 0.014	0.023 ± 0.003	<0.13	0.756 ± 0.064	<0.0020	<0.061
NB7185	TRA/HR/2022/2771/224/C	Concrete	09/06/2022	0.083 ± 0.015	0.014 ± 0.003	<0.098	0.564 ± 0.050	<0.0014	<0.048
NB7186	TRA/HR/2022/2771/227/C	Concrete	09/06/2022	0.087 ± 0.015	0.014 ± 0.003	<0.11	0.749 ± 0.063	<0.0014	<0.046
NB7187	TRA/HR/2022/2771/228/C	Concrete	09/06/2022	0.078 ± 0.014	0.023 ± 0.003	<0.063	0.564 ± 0.042	<0.0011	<0.033
NB7188	TRA/HR/2022/2771/229/C	Concrete	09/06/2022	0.085 ± 0.015	0.022 ± 0.003	<0.10	0.611 ± 0.052	<0.0014	<0.048
NC4099	TRA-HR-2022-1751-AS1-C	Concrete	27/04/2023	N.D.	N.D.	<0.064	0.647 ± 0.072	<0.0065	<0.057

Table 5. Pyrolysis analysis (Tritium and Carbon-14) and gamma spectrometry (^7Be , ^{40}K , ^{235}U , ^{231}Pa). Tritium and Carbon-14 fall under our UKAS accreditation. The matrix is excluded from our UKAS accreditation for gamma spectrometry as indicated by the asterisk; N.D. stands for "Not Determined".

Lab Ref	Customer Ref	Matrix	Sampling Date (reference date)	Pyrolysis Analysis		Gamma Spectrometry*			
				Tritium and Carbon-14		Natural Radionuclides		Uranium-235 Decay Series	
				H-3 (Bq/g)	C-14 (Bq/g)	Be-7 (Bq/g)	K-40 (Bq/g)	U-235 (Bq/g)	Pa-231 (Bq/g)
NC4100	TRA-HR-2022-1751-AS2-C	Concrete	27/04/2023	N.D.	N.D.	<0.057	0.607 ± 0.056	<0.0076	<0.058
NC4101	TRA-HR-2022-1752-AS3-C	Concrete	27/04/2023	N.D.	N.D.	<0.051	0.661 ± 0.055	<0.0069	<0.053
NC4102	TRA-HR-2022-1752-AS4-C	Concrete	27/04/2023	N.D.	N.D.	<0.071	0.544 ± 0.056	<0.008	<0.065
NC4103	TRA-HR-2022-1901-AS5-C	Concrete	27/04/2023	N.D.	N.D.	<0.072	0.673 ± 0.065	<0.0063	<0.059
NC4104	TRA-HR-2022-1951-AS7-C	Concrete	27/04/2023	N.D.	N.D.	<0.07	0.593 ± 0.056	<0.0083	<0.068
NC4105	TRA-HR-2022-2752-AS8-C	Concrete	09/05/2023	N.D.	N.D.	<0.05	0.605 ± 0.051	<0.0075	<0.060
NC4106	TRA-HR-2022-2071-AS12-C	Concrete	09/05/2023	0.037 ± 0.008	0.118 ± 0.012	<0.089	0.609 ± 0.073	<0.012	<0.097
NC4115	TRA-HR-2022-1901-AS6-C	Concrete	27/04/2023	0.086 ± 0.013	0.07 ± 0.007	<0.079	0.738 ± 0.071	<0.007	<0.063
NC4116	TRA-HR-2022-2771-AS9-C	Concrete	09/05/2023	0.029 ± 0.007	0.009 ± 0.002	<0.055	0.704 ± 0.06	<0.0078	<0.062
NC4119	TRA-HR-2022-2970-AS10-C	Concrete	11/05/2023	3.22 ± 0.36	0.495 ± 0.044	<0.089	0.544 ± 0.051	<0.012	<0.11
NC4122	TRA-HR-2022-2970-AS11-C	Concrete	09/05/2023	N.D.	N.D.	<0.066	0.627 ± 0.063	<0.0088	<0.073
NC4125	TRA-HR-2022-2802.north.debris	Debris	09/05/2023	38.5 ± 4.2	15.5 ± 1.5	<0.35	0.155 ± 0.054	<0.027	<0.30
NC4126	TRA-HR-2022-2802.east.debris	Debris	09/05/2023	48.9 ± 5.4	19.1 ± 1.8	<0.45	<0.068	<0.041	<0.43
NC4127	TRA-HR-2022-2802.south.debris	Debris	09/05/2023	43.9 ± 4.8	13.8 ± 1.3	<0.23	<0.048	<0.026	<0.25
NC4128	TRA-HR-2022-2802.west.debris	Debris	09/05/2023	17.6 ± 2	5.06 ± 0.47	<0.18	0.175 ± 0.044	<0.02	<0.19
NC1086	Bulk Paint Sample 1	Paint (flakes)	01/01/2023	N.D.	N.D.	<0.065	<0.078	<0.0038	<0.14
NC1087	Bulk Paint Sample 2	Paint (flakes)	01/01/2023	N.D.	N.D.	<0.064	<0.076	<0.0037	<0.13

Table 6. Gamma spectrometry for the ^{232}Th decay series (^{228}Ra , ^{228}Ac , ^{212}Pb , ^{212}Bi , ^{208}Tl). ^{228}Ra has been estimated assuming secular equilibrium of its daughter nuclide ^{228}Ac . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix	Sampling Date (reference date)	Gamma Spectrometry				
				Thorium-232 Decay Series				
				Ra-228 via Ac-228 (Bq/g)	Ac-228 (Bq/g)	Pb-212 (Bq/g)	Bi-212 (Bq/g)	Tl-208 (Bq/g)
NB6528	TRA/HR/2022/1E91/001/F	Roofing felt	29/06/2022	<0.065	<0.065	<0.024	<0.24	<0.018
NB6529	TRA/HR/2022/1E91/003/F	Roofing felt	29/06/2022	<0.028	<0.028	<0.0092	<0.087	<0.0077
NB6530	TRA/HR/2022/1E91/004/F	Roofing felt	29/06/2022	<0.052	<0.052	<0.016	<0.16	<0.013
NB6531	TRA/HR/2022/1E91/005/F	Roofing felt	29/06/2022	<0.025	<0.025	<0.0082	<0.075	<0.0064
NB6532	TRA/HR/2022/1E91/007/F	Roofing felt	29/06/2022	<0.038	<0.038	<0.014	<0.15	<0.011
NB6533	TRA/HR/2022/1E91/008/F	Roofing felt	29/06/2022	<0.052	<0.052	<0.017	<0.17	<0.013
NB6534	TRA/HR/2022/1E91/009/F	Roofing felt	29/06/2022	<0.046	<0.046	<0.012	<0.13	<0.0089
NB6535	TRA/HR/2022/1E91/011/F	Roofing felt	04/07/2022	<0.022	<0.022	<0.0059	<0.067	<0.0049
NB6536	TRA/HR/2022/1E91/013/F	Roofing felt	04/07/2022	<0.046	<0.046	<0.012	<0.14	<0.0093
NB6537	TRA/HR/2022/1E91/014/F	Roofing felt	04/07/2022	<0.028	<0.028	<0.0072	<0.078	<0.0061
NB6538	TRA/HR/2022/1E91/015/F	Roofing felt	04/07/2022	<0.042	<0.042	<0.011	<0.12	<0.0093
NB6539	TRA/HR/2022/1E91/016/F	Roofing felt	04/07/2022	<0.056	<0.056	<0.015	<0.18	<0.013
NB6540	TRA/HR/2022/1E91/018/F	Roofing felt	04/07/2022	<0.035	<0.035	<0.0090	<0.11	<0.0075
NB6541	TRA/HR/2022/1E91/019/F	Roofing felt	04/07/2022	<0.024	<0.024	<0.0060	<0.072	<0.0053
NB6542	TRA/HR/2022/1E91/020/F	Roofing felt	04/07/2022	<0.052	<0.052	<0.013	<0.16	<0.012
NB6543	TRA/HR/2022/1751/133/M	Metal	28/06/2022	<0.0098	<0.0098	<0.0037	<0.031	<0.0025
NB6544	TRA/HR/2022/1651/134/M	Metal	28/06/2022	<0.019	<0.019	<0.0046	<0.053	<0.0040
NB6545	TRA/HR/2022/1610/135/P	Paint (flakes)	24/06/2022	<0.11	<0.11	<0.036	<0.38	<0.029
NB6546	TRA/HR/2022/1610/137/P	Paint (flakes)	24/06/2022	<0.12	<0.12	<0.037	<0.35	<0.027
NB6547	TRA/HR/2022/1610/141/P	Paint (flakes)	24/06/2022	<0.23	<0.23	<0.057	<0.63	<0.049
NB6548	TRA/HR/2022/1610/145/P	Paint (flakes)	24/06/2022	<0.14	<0.14	<0.033	<0.38	<0.030

Table 6. Gamma spectrometry for the ^{232}Th decay series (^{228}Ra , ^{228}Ac , ^{212}Pb , ^{212}Bi , ^{208}Tl). ^{228}Ra has been estimated assuming secular equilibrium of its daughter nuclide ^{228}Ac . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix	Sampling Date (reference date)	Gamma Spectrometry				
				Thorium-232 Decay Series				
				Ra-228 via Ac-228 (Bq/g)	Ac-228 (Bq/g)	Pb-212 (Bq/g)	Bi-212 (Bq/g)	Tl-208 (Bq/g)
NB6549	TRA/HR/2022/1610/147/P	Paint (flakes)	27/06/2022	<0.16	<0.16	<0.056	<0.46	<0.038
NB6550	TRA/HR/2022/1610/151/P	Paint (flakes)	27/06/2022	<0.16	<0.16	<0.050	<0.49	<0.037
NB6551	TRA/HR/2022/1610/154/P	Paint (flakes)	27/06/2022	<0.12	<0.12	<0.039	<0.37	<0.029
NB6552	TRA/HR/2022/1610/157/P	Paint (flakes)	27/06/2022	<0.22	<0.22	<0.055	<0.62	<0.047
NB6553	TRA/HR/2022/1610/159/P	Paint (flakes)	27/06/2022	<0.19	<0.19	<0.047	<0.57	<0.043
NB6554	TRA/HR/2022/1610/160/P	Paint (flakes)	27/06/2022	<0.14	<0.14	<0.048	<0.42	<0.031
NB6555	TRA/HR/2022/1610/163/P	Paint (flakes)	28/06/2022	<0.17	<0.17	<0.040	<0.46	<0.035
NB6556	TRA/HR/2022/1610/167/P	Paint (flakes)	28/06/2022	<0.078	<0.078	<0.025	<0.23	<0.018
NB6557	TRA/HR/2022/1670/170/P	Paint (flakes)	28/06/2022	<0.11	<0.11	<0.028	<0.31	<0.023
NB6558	TRA/HR/2022/1670/172/P	Paint (flakes)	28/06/2022	<0.20	<0.20	<0.046	<0.57	<0.041
NB6559	TRA/HR/2022/1670/174/P	Paint (flakes)	28/06/2022	<0.24	<0.24	<0.080	<0.67	<0.051
NB6560	TRA/HR/2022/1670/175/P	Paint (flakes)	28/06/2022	<0.61	<0.61	<0.15	<1.9	<0.15
NB6561	TRA/HR/2022/1670/176/P	Paint (flakes)	29/06/2022	<0.12	<0.12	<0.037	<0.36	<0.027
NB6562	TRA/HR/2022/1670/177/P	Paint (flakes)	29/06/2022	<0.27	<0.27	<0.089	<0.76	<0.062
NB6563	TRA/HR/2022/1670/178/P	Paint (flakes)	29/06/2022	<0.50	<0.50	<0.16	<1.6	<0.13
NB6564	TRA/HR/2022/1670/179/P	Paint (flakes)	29/06/2022	<0.25	<0.25	<0.084	<0.73	<0.060
NB6565	TRA/HR/2022/1605/232/O	Oil / Grease	11/07/2022	<0.057	<0.057	<0.015	<0.16	<0.012
NB6566	TRA/HR/2022/1605/233/O	Oil / Grease	11/07/2022	<0.087	<0.087	<0.021	<0.27	<0.019
NB6567	TRA/HR/2022/1740/234/O	Oil / Grease	11/07/2022	<0.15	<0.15	<0.053	<0.43	<0.035
NB6568	TRA/HR/2022/1740/235/O	Oil / Grease	11/07/2022	<0.014	<0.014	0.0114 ± 0.0039	<0.045	<0.0037
NB6569	TRA/HR/2022/1E91/021/C	Concrete	22/06/2022	0.0333 ± 0.0049	0.0333 ± 0.0049	0.0343 ± 0.0043	0.038 ± 0.015	0.0122 ± 0.0018

Table 6. Gamma spectrometry for the ^{232}Th decay series (^{228}Ra , ^{228}Ac , ^{212}Pb , ^{212}Bi , ^{208}Tl). ^{228}Ra has been estimated assuming secular equilibrium of its daughter nuclide ^{228}Ac . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix	Sampling Date (reference date)	Gamma Spectrometry				
				Thorium-232 Decay Series				
				Ra-228 via Ac-228 (Bq/g)	Ac-228 (Bq/g)	Pb-212 (Bq/g)	Bi-212 (Bq/g)	Tl-208 (Bq/g)
NB6570	TRA/HR/2022/1E91/024/C	Concrete	22/06/2022	0.0315 ± 0.0049	0.0315 ± 0.0049	0.0293 ± 0.0032	<0.025	0.0095 ± 0.0018
NB6571	TRA/HR/2022/1E91/025/C	Concrete	22/06/2022	0.0313 ± 0.0044	0.0313 ± 0.0044	0.0322 ± 0.0036	<0.019	0.01 ± 0.0015
NB6572	TRA/HR/2022/1E91/026/C	Concrete	22/06/2022	0.0416 ± 0.006	0.0416 ± 0.006	0.0372 ± 0.004	0.054 ± 0.019	0.0126 ± 0.0021
NB6573	TRA/HR/2022/1E91/028/C	Concrete	22/06/2022	0.0335 ± 0.0074	0.0335 ± 0.0074	0.0334 ± 0.0042	<0.034	0.0091 ± 0.0023
NB6574	TRA/HR/2022/1E91/032/C	Concrete	22/06/2022	0.0326 ± 0.0055	0.0326 ± 0.0055	0.029 ± 0.0032	0.046 ± 0.018	0.0098 ± 0.0018
NB6575	TRA/HR/2022/1E91/033/C	Concrete	22/06/2022	0.0325 ± 0.0051	0.0325 ± 0.0051	0.0263 ± 0.0049	0.046 ± 0.016	0.0095 ± 0.0016
NB6576	TRA/HR/2022/1E91/034/C	Concrete	22/06/2022	0.0341 ± 0.005	0.0341 ± 0.005	0.0319 ± 0.0034	<0.022	0.0113 ± 0.0017
NB6577	TRA/HR/2022/1E91/037/C	Concrete	22/06/2022	0.0415 ± 0.006	0.0415 ± 0.006	0.0388 ± 0.004	0.047 ± 0.018	0.0112 ± 0.002
NB6578	TRA/HR/2022/1E91/038/C	Concrete	22/06/2022	0.0416 ± 0.0059	0.0416 ± 0.0059	0.0368 ± 0.0039	0.048 ± 0.018	0.0128 ± 0.002
NB6579	TRA/HR/2022/1960/041/C	Concrete	14/06/2022	0.03 ± 0.011	0.03 ± 0.011	0.023 ± 0.0055	<0.044	0.0083 ± 0.0028
NB6580	TRA/HR/2022/1960/042/C	Concrete	14/06/2022	0.0266 ± 0.009	0.0266 ± 0.009	0.0223 ± 0.0036	<0.036	0.0082 ± 0.0022
NB6581	TRA/HR/2022/1960/044/C	Concrete	14/06/2022	0.0297 ± 0.0052	0.0297 ± 0.0052	0.0263 ± 0.003	<0.026	0.0091 ± 0.0018
NB6582	TRA/HR/2022/1960/046/C	Concrete	14/06/2022	0.029 ± 0.0059	0.029 ± 0.0059	0.025 ± 0.0033	<0.029	0.0078 ± 0.0018
NB6583	TRA/HR/2022/1960/047/C	Concrete	14/06/2022	0.0232 ± 0.0062	0.0232 ± 0.0062	0.0181 ± 0.0034	<0.027	0.0061 ± 0.0018
NB6584	TRA/HR/2022/1960/049/C	Concrete	14/06/2022	0.0282 ± 0.0059	0.0282 ± 0.0059	0.0294 ± 0.0037	<0.030	0.0104 ± 0.0022
NB6585	TRA/HR/2022/1960/050/C	Concrete	14/06/2022	<0.015	<0.015	0.023 ± 0.0038	<0.039	0.0074 ± 0.0023
NB6586	TRA/HR/2022/1960/051/C	Concrete	16/06/2022	0.0184 ± 0.0067	0.0184 ± 0.0067	0.0172 ± 0.0025	<0.027	0.0067 ± 0.0017
NB6587	TRA/HR/2022/1960/052/C	Concrete	16/06/2022	0.0252 ± 0.0062	0.0252 ± 0.0062	0.022 ± 0.0037	<0.029	0.0081 ± 0.002
NB6588	TRA/HR/2022/1960/053/C	Concrete	16/06/2022	0.0386 ± 0.0073	0.0386 ± 0.0073	0.0378 ± 0.0044	<0.033	0.012 ± 0.0024
NB6589	TRA/HR/2022/1960/054/C	Concrete	16/06/2022	0.0401 ± 0.0061	0.0401 ± 0.0061	0.0385 ± 0.004	<0.028	0.0114 ± 0.002
NB6590	TRA/HR/2022/1960/055/C	Concrete	16/06/2022	0.0442 ± 0.0088	0.0442 ± 0.0088	0.0333 ± 0.0043	<0.043	0.0134 ± 0.003

Table 6. Gamma spectrometry for the ^{232}Th decay series (^{228}Ra , ^{228}Ac , ^{212}Pb , ^{212}Bi , ^{208}Tl). ^{228}Ra has been estimated assuming secular equilibrium of its daughter nuclide ^{228}Ac . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix	Sampling Date (reference date)	Gamma Spectrometry				
				Thorium-232 Decay Series				
				Ra-228 via Ac-228 (Bq/g)	Ac-228 (Bq/g)	Pb-212 (Bq/g)	Bi-212 (Bq/g)	Tl-208 (Bq/g)
NB6591	TRA/HR/2022/1960/056/C	Concrete	16/06/2022	<0.013	<0.013	0.0196 ± 0.004	<0.033	0.0063 ± 0.0021
NB6592	TRA/HR/2022/1960/057/C	Concrete	16/06/2022	0.035 ± 0.011	0.035 ± 0.011	0.0203 ± 0.004	<0.043	0.0077 ± 0.0028
NB6593	TRA/HR/2022/1960/058/C	Concrete	16/06/2022	<0.014	<0.014	0.0179 ± 0.0034	<0.038	<0.0030
NB6594	TRA/HR/2022/1960/060/C	Concrete	16/06/2022	0.0316 ± 0.0061	0.0316 ± 0.0061	0.0276 ± 0.0037	<0.029	0.01 ± 0.0019
NB6595	TRA/HR/2022/1960/061/C	Concrete	24/06/2022	0.0274 ± 0.0045	0.0274 ± 0.0045	0.0313 ± 0.0035	0.035 ± 0.014	0.0092 ± 0.0015
NB6596	TRA/HR/2022/1960/062/C	Concrete	24/06/2022	0.0364 ± 0.006	0.0364 ± 0.006	0.0324 ± 0.004	<0.029	0.0127 ± 0.0021
NB6597	TRA/HR/2022/1960/063/C	Concrete	24/06/2022	0.0301 ± 0.0072	0.0301 ± 0.0072	0.0284 ± 0.0039	<0.035	0.008 ± 0.0022
NB6598	TRA/HR/2022/1960/064/C	Concrete	24/06/2022	0.039 ± 0.0058	0.039 ± 0.0058	0.0344 ± 0.0036	<0.027	0.0118 ± 0.0021
NB6599	TRA/HR/2022/1970/065/C	Concrete	21/06/2022	0.0344 ± 0.0078	0.0344 ± 0.0078	0.0291 ± 0.0051	<0.041	0.0088 ± 0.0027
NB6600	TRA/HR/2022/1970/066/C	Concrete	21/06/2022	0.0322 ± 0.0058	0.0322 ± 0.0058	0.0296 ± 0.0034	<0.026	0.0098 ± 0.002
NB6601	TRA/HR/2022/1970/068/C	Concrete	21/06/2022	<0.013	<0.013	0.0245 ± 0.0036	<0.037	0.0064 ± 0.0021
NB6602	TRA/HR/2022/1970/071/C	Concrete	21/06/2022	0.0345 ± 0.0061	0.0345 ± 0.0061	0.0347 ± 0.0038	<0.027	0.0108 ± 0.0021
NB6603	TRA/HR/2022/1970/072/C	Concrete	21/06/2022	0.0276 ± 0.0052	0.0276 ± 0.0052	0.0247 ± 0.0038	<0.025	0.0098 ± 0.0019
NB6604	TRA/HR/2022/1970/073/C	Concrete	21/06/2022	0.0376 ± 0.0071	0.0376 ± 0.0071	0.0297 ± 0.0042	<0.038	0.012 ± 0.0028
NB6605	TRA/HR/2022/1970/074/C	Concrete	21/06/2022	0.0378 ± 0.0057	0.0378 ± 0.0057	0.0389 ± 0.004	<0.025	0.0117 ± 0.0019
NB6606	TRA/HR/2022/1970/077/C	Concrete	21/06/2022	0.0247 ± 0.0053	0.0247 ± 0.0053	0.0232 ± 0.003	<0.024	0.0084 ± 0.0017
NB6607	TRA/HR/2022/1970/078/C	Concrete	21/06/2022	0.0268 ± 0.0053	0.0268 ± 0.0053	0.0275 ± 0.0036	<0.027	0.0078 ± 0.0019
NB6608	TRA/HR/2022/1970/079/C	Concrete	21/06/2022	0.0327 ± 0.0057	0.0327 ± 0.0057	0.0285 ± 0.0036	<0.029	0.0089 ± 0.0021
NB6609	TRA/HR/2022/1970/080/C	Concrete	21/06/2022	0.0301 ± 0.0054	0.0301 ± 0.0054	0.0215 ± 0.0038	<0.027	0.0077 ± 0.0019
NB6610	TRA/HR/2022/1970/082/C	Concrete	21/06/2022	0.0296 ± 0.0052	0.0296 ± 0.0052	0.0279 ± 0.0033	<0.026	0.0095 ± 0.0019
NB6611	TRA/HR/2022/1970/083/C	Concrete	21/06/2022	0.0291 ± 0.0055	0.0291 ± 0.0055	0.0255 ± 0.0038	<0.026	0.0086 ± 0.0019

Table 6. Gamma spectrometry for the ^{232}Th decay series (^{228}Ra , ^{228}Ac , ^{212}Pb , ^{212}Bi , ^{208}Tl). ^{228}Ra has been estimated assuming secular equilibrium of its daughter nuclide ^{228}Ac . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix	Sampling Date (reference date)	Gamma Spectrometry				
				Thorium-232 Decay Series				
				Ra-228 via Ac-228 (Bq/g)	Ac-228 (Bq/g)	Pb-212 (Bq/g)	Bi-212 (Bq/g)	Tl-208 (Bq/g)
NB6612	TRA/HR/2022/1970/084/C	Concrete	21/06/2022	0.0352 ± 0.0044	0.0352 ± 0.0044	0.0324 ± 0.0034	<0.017	0.0112 ± 0.0015
NB6613	TRA/HR/2022/1970/085/C	Concrete	23/06/2022	0.0337 ± 0.0042	0.0337 ± 0.0042	0.0324 ± 0.0033	0.037 ± 0.012	0.0108 ± 0.0014
NB6614	TRA/HR/2022/1970/086/C	Concrete	23/06/2022	0.0292 ± 0.004	0.0292 ± 0.004	0.0293 ± 0.0031	0.034 ± 0.013	0.0093 ± 0.0014
NB6615	TRA/HR/2022/1970/087/C	Concrete	23/06/2022	0.031 ± 0.0042	0.031 ± 0.0042	0.0318 ± 0.0033	<0.019	0.0103 ± 0.0015
NB6616	TRA/HR/2022/1970/088/C	Concrete	23/06/2022	0.0452 ± 0.0066	0.0452 ± 0.0066	0.039 ± 0.0041	<0.031	0.0138 ± 0.0023
NB6617	TRA/HR/2022/1901/089/C	Concrete	23/05/2022	0.0404 ± 0.0078	0.0404 ± 0.0078	0.0345 ± 0.0048	<0.042	0.011 ± 0.0028
NB6618	TRA/HR/2022/1901/090/C	Concrete	23/05/2022	0.0298 ± 0.0051	0.0298 ± 0.0051	0.0314 ± 0.0035	<0.027	0.0106 ± 0.0019
NB6619	TRA/HR/2022/1901/091/C	Concrete	23/05/2022	0.0337 ± 0.0069	0.0337 ± 0.0069	0.0313 ± 0.0046	<0.035	0.0098 ± 0.0024
NB6620	TRA/HR/2022/1901/092/C	Concrete	23/05/2022	0.0376 ± 0.0089	0.0376 ± 0.0089	0.0316 ± 0.0046	<0.042	0.0092 ± 0.0026
NB6621	TRA/HR/2022/1901/093/C	Concrete	23/05/2022	0.0407 ± 0.0079	0.0407 ± 0.0079	0.0304 ± 0.0044	<0.041	0.0096 ± 0.0026
NB6622	TRA/HR/2022/1951/094/C	Concrete	23/05/2022	0.0367 ± 0.0056	0.0367 ± 0.0056	0.0324 ± 0.0037	<0.028	0.0099 ± 0.002
NB6623	TRA/HR/2022/1951/095/C	Concrete	23/05/2022	0.0362 ± 0.0056	0.0362 ± 0.0056	0.0396 ± 0.0048	0.051 ± 0.018	0.0118 ± 0.002
NB6624	TRA/HR/2022/1951/096/C	Concrete	23/05/2022	0.034 ± 0.0056	0.034 ± 0.0056	0.0297 ± 0.0035	<0.027	0.0088 ± 0.0018
NB6625	TRA/HR/2022/1951/097/C	Concrete	23/05/2022	0.0324 ± 0.0041	0.0324 ± 0.0041	0.035 ± 0.0034	0.036 ± 0.012	0.0108 ± 0.0015
NB6626	TRA/HR/2022/1951/098/C	Concrete	23/05/2022	0.0377 ± 0.0057	0.0377 ± 0.0057	0.0353 ± 0.0037	<0.027	0.0095 ± 0.002
NB6627	TRA/HR/2022/1601/099/C	Concrete	24/05/2022	0.0271 ± 0.0074	0.0271 ± 0.0074	0.0244 ± 0.0037	<0.037	0.0089 ± 0.0025
NB6628	TRA/HR/2022/1602/104/C	Concrete	24/05/2022	0.0326 ± 0.0053	0.0326 ± 0.0053	0.0354 ± 0.0039	<0.024	0.0106 ± 0.0018
NB6629	TRA/HR/2022/1603/105/C	Concrete	24/05/2022	0.0359 ± 0.0053	0.0359 ± 0.0053	0.0293 ± 0.0043	<0.025	0.0104 ± 0.0021
NB6630	TRA/HR/2022/1651/100/C	Concrete	22/06/2022	0.0387 ± 0.0041	0.0387 ± 0.0041	0.0368 ± 0.0034	0.043 ± 0.011	0.0124 ± 0.0014
NB6631	TRA/HR/2022/1651/101/C	Concrete	22/06/2022	0.0183 ± 0.0037	0.0183 ± 0.0037	0.0207 ± 0.0025	<0.020	0.0064 ± 0.0014
NB6632	TRA/HR/2022/1651/102/C	Concrete	22/06/2022	0.0313 ± 0.0049	0.0313 ± 0.0049	0.0302 ± 0.0031	<0.022	0.0083 ± 0.0016

Table 6. Gamma spectrometry for the ^{232}Th decay series (^{228}Ra , ^{228}Ac , ^{212}Pb , ^{212}Bi , ^{208}Tl). ^{228}Ra has been estimated assuming secular equilibrium of its daughter nuclide ^{228}Ac . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix	Sampling Date (reference date)	Gamma Spectrometry				
				Thorium-232 Decay Series				
				Ra-228 via Ac-228 (Bq/g)	Ac-228 (Bq/g)	Pb-212 (Bq/g)	Bi-212 (Bq/g)	Tl-208 (Bq/g)
NB6633	TRA/HR/2022/1651/103/C	Concrete	22/06/2022	0.0341 ± 0.005	0.0341 ± 0.005	0.0344 ± 0.0042	<0.022	0.0104 ± 0.0017
NB6634	TRA/HR/2022/1762/111/C	Concrete	24/05/2022	0.0359 ± 0.0051	0.0359 ± 0.0051	0.0294 ± 0.0035	<0.024	0.0113 ± 0.002
NB6635	TRA/HR/2022/1652/106/C	Concrete	23/06/2022	0.033 ± 0.0051	0.033 ± 0.0051	0.0303 ± 0.0034	<0.025	0.0114 ± 0.002
NB6636	TRA/HR/2022/1652/107/C	Concrete	23/06/2022	0.0392 ± 0.0059	0.0392 ± 0.0059	0.0334 ± 0.0041	<0.027	0.0114 ± 0.002
NB6637	TRA/HR/2022/1761/108/C	Concrete	23/05/2022	0.0329 ± 0.0041	0.0329 ± 0.0041	0.0352 ± 0.0035	0.037 ± 0.012	0.0111 ± 0.0015
NB6638	TRA/HR/2022/1652/109/C	Concrete	23/06/2022	0.0314 ± 0.0043	0.0314 ± 0.0043	0.0309 ± 0.0032	<0.019	0.0092 ± 0.0014
NB6639	TRA/HR/2022/1652/110/C	Concrete	23/06/2022	0.0427 ± 0.0053	0.0427 ± 0.0053	0.0413 ± 0.0039	0.054 ± 0.017	0.0138 ± 0.0019
NB6640	TRA/HR/2022/1763/114/C	Concrete	24/05/2022	0.0352 ± 0.0053	0.0352 ± 0.0053	0.0399 ± 0.0045	0.044 ± 0.017	0.0121 ± 0.0018
NB6641	TRA/HR/2022/1653/112/C	Concrete	23/06/2022	0.0331 ± 0.0049	0.0331 ± 0.0049	0.0303 ± 0.0033	<0.023	0.0096 ± 0.0016
NB6642	TRA/HR/2022/1653/113/C	Concrete	23/06/2022	0.0342 ± 0.005	0.0342 ± 0.005	0.0303 ± 0.0032	0.041 ± 0.016	0.0109 ± 0.0017
NB6643	TRA/HR/2022/1653/115/C	Concrete	23/06/2022	0.0276 ± 0.0033	0.0276 ± 0.0033	0.0284 ± 0.0028	0.032 ± 0.01	0.0088 ± 0.0012
NB6644	TRA/HR/2022/1653/116/C	Concrete	23/06/2022	0.0311 ± 0.0043	0.0311 ± 0.0043	0.0276 ± 0.003	<0.019	0.0097 ± 0.0015
NB6645	TRA/HR/2022/1507/117/C	Concrete	25/05/2022	0.0337 ± 0.0048	0.0337 ± 0.0048	0.0304 ± 0.0034	0.048 ± 0.017	0.0105 ± 0.0018
NB6646	TRA/HR/2022/1507/118/C	Concrete	25/05/2022	0.0247 ± 0.0092	0.0247 ± 0.0092	0.0234 ± 0.0043	<0.036	0.0082 ± 0.0024
NB6647	TRA/HR/2022/1508/119/C	Concrete	25/05/2022	0.0306 ± 0.0038	0.0306 ± 0.0038	0.0318 ± 0.0031	0.033 ± 0.01	0.0102 ± 0.0013
NB6648	TRA/HR/2022/1508/120/C	Concrete	25/05/2022	0.0309 ± 0.0038	0.0309 ± 0.0038	0.0327 ± 0.0033	0.033 ± 0.012	0.0104 ± 0.0014
NB6649	TRA/HR/2022/1509/121/C	Concrete	25/05/2022	0.0303 ± 0.0039	0.0303 ± 0.0039	0.0284 ± 0.0029	0.034 ± 0.011	0.0085 ± 0.0012
NB6650	TRA/HR/2022/1509/122/C	Concrete	25/05/2022	0.0287 ± 0.0042	0.0287 ± 0.0042	0.0279 ± 0.003	0.038 ± 0.014	0.0099 ± 0.0015
NB6651	TRA/HR/2022/1751/123/C	Concrete	25/05/2022	0.0318 ± 0.0045	0.0318 ± 0.0045	0.0311 ± 0.0032	<0.022	0.0104 ± 0.0017
NB6652	TRA/HR/2022/1751/124/C	Concrete	25/05/2022	0.0408 ± 0.0058	0.0408 ± 0.0058	0.0317 ± 0.004	<0.026	0.0108 ± 0.002
NB6653	TRA/HR/2022/1752/125/C	Concrete	25/05/2022	0.0309 ± 0.0049	0.0309 ± 0.0049	0.0237 ± 0.0044	<0.022	0.0097 ± 0.0016

Table 6. Gamma spectrometry for the ^{232}Th decay series (^{228}Ra , ^{228}Ac , ^{212}Pb , ^{212}Bi , ^{208}Tl). ^{228}Ra has been estimated assuming secular equilibrium of its daughter nuclide ^{228}Ac . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix	Sampling Date (reference date)	Gamma Spectrometry				
				Thorium-232 Decay Series				
				Ra-228 via Ac-228 (Bq/g)	Ac-228 (Bq/g)	Pb-212 (Bq/g)	Bi-212 (Bq/g)	Tl-208 (Bq/g)
NB6654	TRA/HR/2022/1752/126/C	Concrete	25/05/2022	0.0347 ± 0.0049	0.0347 ± 0.0049	0.0279 ± 0.0038	0.049 ± 0.016	0.0107 ± 0.0017
NB6655	TRA/HR/2022/1753/127/C	Concrete	25/05/2022	0.0287 ± 0.0049	0.0287 ± 0.0049	0.0284 ± 0.0035	<0.025	0.0092 ± 0.0017
NB6656	TRA/HR/2022/1753/128/C	Concrete	25/05/2022	0.0307 ± 0.005	0.0307 ± 0.005	0.0297 ± 0.0034	<0.024	0.0094 ± 0.0018
NB6657	TRA/HR/2022/1610/180/C	Concrete	29/06/2022	0.0358 ± 0.0051	0.0358 ± 0.0051	0.0328 ± 0.0033	<0.023	0.0097 ± 0.0016
NB6658	TRA/HR/2022/1610/181/C	Concrete	29/06/2022	0.0281 ± 0.0044	0.0281 ± 0.0044	0.0282 ± 0.003	0.04 ± 0.015	0.0093 ± 0.0016
NB6659	TRA/HR/2022/1610/182/C	Concrete	29/06/2022	0.0416 ± 0.0058	0.0416 ± 0.0058	0.0385 ± 0.0039	0.051 ± 0.02	0.0113 ± 0.002
NB6660	TRA/HR/2022/1610/183/C	Concrete	29/06/2022	0.0335 ± 0.0047	0.0335 ± 0.0047	0.0306 ± 0.0033	<0.020	0.0102 ± 0.0016
NB6661	TRA/HR/2022/1610/184/C	Concrete	29/06/2022	0.0318 ± 0.0049	0.0318 ± 0.0049	0.0305 ± 0.0041	<0.022	0.0101 ± 0.0017
NB6662	TRA/HR/2022/1605/190/C	Concrete	26/05/2022	0.021 ± 0.0036	0.021 ± 0.0036	0.0216 ± 0.0025	<0.018	0.0073 ± 0.0013
NB6663	TRA/HR/2022/1605/191/C	Concrete	26/05/2022	0.034 ± 0.0049	0.034 ± 0.0049	0.0294 ± 0.0031	<0.024	0.0101 ± 0.0017
NB6664	TRA/HR/2022/1605/192/C	Concrete	26/05/2022	0.0268 ± 0.0048	0.0268 ± 0.0048	0.024 ± 0.0036	<0.024	0.0089 ± 0.0017
NB6665	TRA/HR/2022/1605/193/C	Concrete	26/05/2022	0.0323 ± 0.0044	0.0323 ± 0.0044	0.0297 ± 0.0032	<0.021	0.0099 ± 0.0017
NB6666	TRA/HR/2022/1605/195/C	Concrete	26/05/2022	0.0289 ± 0.0043	0.0289 ± 0.0043	0.0238 ± 0.0032	0.05 ± 0.014	0.0094 ± 0.0015
NB6667	TRA/HR/2022/1605/196/C	Concrete	26/05/2022	0.0277 ± 0.0039	0.0277 ± 0.0039	0.0265 ± 0.0028	0.036 ± 0.012	0.0086 ± 0.0014
NB6668	TRA/HR/2022/1605/197/C	Concrete	26/05/2022	0.0324 ± 0.0046	0.0324 ± 0.0046	0.0343 ± 0.0033	0.043 ± 0.015	0.0106 ± 0.0015
NB6669	TRA/HR/2022/1605/198/C	Concrete	26/05/2022	0.03 ± 0.0047	0.03 ± 0.0047	0.0277 ± 0.0029	<0.022	0.0095 ± 0.0017
NB6670	TRA/HR/2022/1605/201/C	Concrete	01/06/2022	0.0249 ± 0.0059	0.0249 ± 0.0059	0.0231 ± 0.0039	<0.027	0.0073 ± 0.0019
NB6671	TRA/HR/2022/1605/203/C	Concrete	01/06/2022	0.0359 ± 0.0046	0.0359 ± 0.0046	0.0349 ± 0.0034	<0.018	0.0107 ± 0.0015
NB6672	TRA/HR/2022/1605/204/C	Concrete	01/06/2022	0.0366 ± 0.0053	0.0366 ± 0.0053	0.0321 ± 0.0037	<0.024	0.0099 ± 0.0017
NB6673	TRA/HR/2022/1605/205/C	Concrete	01/06/2022	0.0296 ± 0.0047	0.0296 ± 0.0047	0.0308 ± 0.0034	0.039 ± 0.014	0.0101 ± 0.0014
NB6674	TRA/HR/2022/1605/206/C	Concrete	01/06/2022	0.0287 ± 0.0043	0.0287 ± 0.0043	0.0242 ± 0.0041	0.044 ± 0.014	0.0095 ± 0.0016

Table 6. Gamma spectrometry for the ^{232}Th decay series (^{228}Ra , ^{228}Ac , ^{212}Pb , ^{212}Bi , ^{208}Tl). ^{228}Ra has been estimated assuming secular equilibrium of its daughter nuclide ^{228}Ac . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix	Sampling Date (reference date)	Gamma Spectrometry				
				Thorium-232 Decay Series				
				Ra-228 via Ac-228 (Bq/g)	Ac-228 (Bq/g)	Pb-212 (Bq/g)	Bi-212 (Bq/g)	Tl-208 (Bq/g)
NB6675	TRA/HR/2022/1605/209/C	Concrete	01/06/2022	0.0281 ± 0.0054	0.0281 ± 0.0054	0.0232 ± 0.0028	<0.026	0.008 ± 0.0017
NB6676	TRA/HR/2022/1771/211/C	Concrete	08/06/2022	0.0307 ± 0.0051	0.0307 ± 0.0051	0.0296 ± 0.0035	<0.024	0.0103 ± 0.0018
NB6677	TRA/HR/2022/1771/212/C	Concrete	08/06/2022	0.0344 ± 0.0051	0.0344 ± 0.0051	0.0324 ± 0.0035	0.044 ± 0.016	0.0117 ± 0.0018
NB6678	TRA/HR/2022/1754/213/C	Concrete	08/06/2022	0.0367 ± 0.0051	0.0367 ± 0.0051	0.0337 ± 0.0037	<0.024	0.0116 ± 0.0019
NB6679	TRA/HR/2022/1754/215/C	Concrete	08/06/2022	0.034 ± 0.0053	0.034 ± 0.0053	0.0278 ± 0.0038	<0.024	0.0117 ± 0.0019
NB6680	TRA/HR/2022/1771/218/C	Concrete	08/06/2022	0.0301 ± 0.0049	0.0301 ± 0.0049	0.0304 ± 0.0033	<0.022	0.0104 ± 0.0017
NB6681	TRA/HR/2022/1755/219/C	Concrete	09/06/2022	0.0387 ± 0.0059	0.0387 ± 0.0059	0.0368 ± 0.0041	<0.028	0.0124 ± 0.002
NB6682	TRA/HR/2022/1771/220/C	Concrete	09/06/2022	0.0312 ± 0.0045	0.0312 ± 0.0045	0.0292 ± 0.0036	<0.019	0.0092 ± 0.0016
NB6683	TRA/HR/2022/1771/221/C	Concrete	09/06/2022	0.0299 ± 0.0043	0.0299 ± 0.0043	0.0304 ± 0.0035	<0.020	0.0094 ± 0.0016
NB6684	TRA/HR/2022/1771/223/C	Concrete	09/06/2022	0.0318 ± 0.004	0.0318 ± 0.004	0.0332 ± 0.0032	0.039 ± 0.012	0.0103 ± 0.0015
NB6685	TRA/HR/2022/1771/226/C	Concrete	09/06/2022	0.0412 ± 0.0058	0.0412 ± 0.0058	0.0348 ± 0.0049	<0.026	0.0118 ± 0.002
NB6686	TRA/HR/2022/1755/227/C	Concrete	09/06/2022	0.029 ± 0.0039	0.029 ± 0.0039	0.0286 ± 0.0032	<0.016	0.0094 ± 0.0014
NB7034	TRA/HR/2022/2E91/001/F	Roofing felt	07/07/2022	<0.044	<0.044	<0.013	<0.14	<0.0096
NB7035	TRA/HR/2022/2E91/003/F	Roofing felt	07/07/2022	<0.031	<0.031	<0.0084	<0.093	<0.0070
NB7036	TRA/HR/2022/2E91/004/F	Roofing felt	07/07/2022	<0.034	<0.034	<0.0087	<0.10	<0.0072
NB7037	TRA/HR/2022/2E91/005/F	Roofing felt	07/07/2022	<0.019	<0.019	<0.0060	<0.052	<0.0044
NB7038	TRA/HR/2022/2E91/007/F	Roofing felt	07/07/2022	<0.043	<0.043	<0.011	<0.12	<0.0091
NB7039	TRA/HR/2022/2E91/008/F	Roofing felt	07/07/2022	<0.015	<0.015	<0.0054	<0.043	<0.0034
NB7040	TRA/HR/2022/2E91/009/F	Roofing felt	07/07/2022	<0.015	<0.015	<0.0054	<0.046	<0.0036
NB7041	TRA/HR/2022/2E91/011/F	Roofing felt	07/07/2022	<0.019	<0.019	<0.0064	<0.054	<0.0044
NB7042	TRA/HR/2022/2E91/013/F	Roofing felt	07/07/2022	<0.024	<0.024	<0.0066	<0.074	<0.0057

Table 6. Gamma spectrometry for the ^{232}Th decay series (^{228}Ra , ^{228}Ac , ^{212}Pb , ^{212}Bi , ^{208}Tl). ^{228}Ra has been estimated assuming secular equilibrium of its daughter nuclide ^{228}Ac . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix	Sampling Date (reference date)	Gamma Spectrometry				
				Thorium-232 Decay Series				
				Ra-228 via Ac-228 (Bq/g)	Ac-228 (Bq/g)	Pb-212 (Bq/g)	Bi-212 (Bq/g)	Tl-208 (Bq/g)
NB7043	TRA/HR/2022/2E91/014/F	Roofing felt	07/07/2022	<0.020	<0.020	<0.0074	<0.061	<0.0049
NB7044	TRA/HR/2022/2E91/015/F	Roofing felt	07/07/2022	<0.025	<0.025	<0.0071	<0.083	<0.0058
NB7045	TRA/HR/2022/2E91/016/F	Roofing felt	07/07/2022	<0.037	<0.037	<0.0095	<0.10	<0.0089
NB7046	TRA/HR/2022/2E91/018/F	Roofing felt	07/07/2022	<0.045	<0.045	<0.018	<0.14	<0.012
NB7047	TRA/HR/2022/2E91/019/F	Roofing felt	07/07/2022	<0.029	<0.029	<0.011	<0.078	<0.0071
NB7048	TRA/HR/2022/2E91/020/F	Roofing felt	07/07/2022	<0.026	<0.026	<0.0091	<0.083	<0.0060
NB7049	TRA/HR/2022/2610/136/P	Paint (flakes)	27/07/2022	<0.15	<0.15	<0.033	<0.41	<0.029
NB7050	TRA/HR/2022/2610/139/P	Paint (flakes)	27/07/2022	<0.11	<0.11	<0.029	<0.37	<0.027
NB7051	TRA/HR/2022/2610/142/P	Paint (flakes)	27/07/2022	<0.17	<0.17	<0.060	<0.51	<0.040
NB7052	TRA/HR/2022/2610/144/P	Paint (flakes)	27/07/2022	<0.11	<0.11	<0.033	<0.31	<0.024
NB7053	TRA/HR/2022/2610/146/P	Paint (flakes)	27/07/2022	<0.13	<0.13	<0.039	<0.38	<0.029
NB7054	TRA/HR/2022/2610/149/P	Paint (flakes)	27/07/2022	<0.12	<0.12	<0.031	<0.37	<0.026
NB7055	TRA/HR/2022/2610/152/P	Paint (flakes)	27/07/2022	<0.20	<0.20	<0.047	<0.59	<0.044
NB7056	TRA/HR/2022/2610/154/P	Paint (flakes)	27/07/2022	<0.16	<0.16	<0.055	<0.48	<0.038
NB7057	TRA/HR/2022/2610/158/P	Paint (flakes)	27/07/2022	<0.17	<0.17	<0.045	<0.54	<0.037
NB7058	TRA/HR/2022/2610/161/P	Paint (flakes)	27/07/2022	<0.13	<0.13	<0.040	<0.38	<0.030
NB7059	TRA/HR/2022/2610/163/P	Paint (flakes)	27/07/2022	<0.11	<0.11	<0.032	<0.32	<0.024
NB7060	TRA/HR/2022/2610/166/P	Paint (flakes)	27/07/2022	<0.22	<0.22	<0.055	<0.62	<0.044
NB7061	TRA/HR/2022/2610/169/P	Paint (flakes)	27/07/2022	<0.22	<0.22	<0.055	<0.63	<0.047
NB7062	TRA/HR/2022/2670/171/P	Paint (flakes)	28/07/2022	<0.21	<0.21	<0.056	<0.65	<0.045
NB7063	TRA/HR/2022/2670/173/P	Paint (flakes)	28/07/2022	<0.24	<0.24	<0.056	<0.62	<0.047

Table 6. Gamma spectrometry for the ^{232}Th decay series (^{228}Ra , ^{228}Ac , ^{212}Pb , ^{212}Bi , ^{208}Tl). ^{228}Ra has been estimated assuming secular equilibrium of its daughter nuclide ^{228}Ac . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix	Sampling Date (reference date)	Gamma Spectrometry				
				Thorium-232 Decay Series				
				Ra-228 via Ac-228 (Bq/g)	Ac-228 (Bq/g)	Pb-212 (Bq/g)	Bi-212 (Bq/g)	Tl-208 (Bq/g)
NB7064	TRA/HR/2022/2670/175/P	Paint (flakes)	28/07/2022	<0.34	<0.34	<0.080	<0.99	<0.072
NB7065	TRA/HR/2022/2670/176/P	Paint (flakes)	28/07/2022	<0.54	<0.54	<0.12	<1.5	<0.11
NB7066	TRA/HR/2022/2670/177/P	Paint (flakes)	28/07/2022	<0.32	<0.32	<0.081	<0.97	<0.076
NB7067	TRA/HR/2022/2670/178/P	Paint (flakes)	28/07/2022	<0.30	<0.30	<0.072	<0.84	<0.063
NB7068	TRA/HR/2022/2670/179/P	Paint (flakes)	28/07/2022	<0.50	<0.50	<0.17	<1.5	<0.12
NB7069	TRA/HR/2022/2652/132/M	Metal	04/07/2022	<0.012	<0.012	<0.0044	<0.037	<0.0027
NB7070	TRA/HR/2022/2652/134/M	Metal	04/07/2022	<0.042	<0.042	<0.015	<0.13	<0.010
NB7071	TRA/HR/2022/2E91/022/C	Concrete	07/07/2022	0.033 ± 0.0047	0.033 ± 0.0047	0.0309 ± 0.0038	<0.020	0.0096 ± 0.0016
NB7072	TRA/HR/2022/2E91/024/C	Concrete	07/07/2022	0.0361 ± 0.0053	0.0361 ± 0.0053	0.0332 ± 0.0041	0.048 ± 0.016	0.0116 ± 0.0019
NB7073	TRA/HR/2022/2E91/027/C	Concrete	07/07/2022	0.0362 ± 0.0041	0.0362 ± 0.0041	0.0343 ± 0.0034	0.042 ± 0.012	0.0111 ± 0.0014
NB7074	TRA/HR/2022/2E91/028/C	Concrete	07/07/2022	0.0333 ± 0.004	0.0333 ± 0.004	0.0305 ± 0.0031	0.036 ± 0.011	0.0103 ± 0.0014
NB7075	TRA/HR/2022/2E91/030/C	Concrete	07/07/2022	0.0316 ± 0.0036	0.0316 ± 0.0036	0.0287 ± 0.0029	0.0283 ± 0.0097	0.0095 ± 0.0012
NB7076	TRA/HR/2022/2E91/033/C	Concrete	07/07/2022	0.0314 ± 0.0045	0.0314 ± 0.0045	0.0292 ± 0.0031	<0.022	0.0106 ± 0.0018
NB7077	TRA/HR/2022/2E91/034/C	Concrete	07/07/2022	0.036 ± 0.0049	0.036 ± 0.0049	0.0327 ± 0.0032	<0.021	0.0103 ± 0.0016
NB7078	TRA/HR/2022/2E91/036/C	Concrete	07/07/2022	0.0327 ± 0.0048	0.0327 ± 0.0048	0.0316 ± 0.0032	0.043 ± 0.016	0.0095 ± 0.0016
NB7079	TRA/HR/2022/2E91/037/C	Concrete	07/07/2022	0.0336 ± 0.0047	0.0336 ± 0.0047	0.0332 ± 0.0038	<0.022	0.0118 ± 0.0017
NB7080	TRA/HR/2022/2E91/039/C	Concrete	07/07/2022	0.0366 ± 0.0053	0.0366 ± 0.0053	0.0341 ± 0.0036	<0.023	0.0104 ± 0.0019
NB7081	TRA/HR/2022/2970/041/C	Concrete	12/07/2022	0.03 ± 0.01	0.03 ± 0.01	0.0264 ± 0.0044	<0.040	0.0084 ± 0.0026
NB7082	TRA/HR/2022/2970/043/C	Concrete	12/07/2022	0.0243 ± 0.0046	0.0243 ± 0.0046	0.0232 ± 0.0034	<0.022	0.0074 ± 0.0015
NB7083	TRA/HR/2022/2970/044/C	Concrete	12/07/2022	<0.014	<0.014	0.0265 ± 0.0039	<0.038	0.0101 ± 0.0024
NB7084	TRA/HR/2022/2970/045/C	Concrete	12/07/2022	<0.019	<0.019	0.0244 ± 0.0045	<0.048	0.0097 ± 0.0028

Table 6. Gamma spectrometry for the ^{232}Th decay series (^{228}Ra , ^{228}Ac , ^{212}Pb , ^{212}Bi , ^{208}Tl). ^{228}Ra has been estimated assuming secular equilibrium of its daughter nuclide ^{228}Ac . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix	Sampling Date (reference date)	Gamma Spectrometry				
				Thorium-232 Decay Series				
				Ra-228 via Ac-228 (Bq/g)	Ac-228 (Bq/g)	Pb-212 (Bq/g)	Bi-212 (Bq/g)	Tl-208 (Bq/g)
NB7085	TRA/HR/2022/2970/047/C	Concrete	12/07/2022	0.0307 ± 0.0053	0.0307 ± 0.0053	0.0348 ± 0.0044	<0.025	0.01 ± 0.0019
NB7086	TRA/HR/2022/2970/048/C	Concrete	12/07/2022	0.0417 ± 0.0081	0.0417 ± 0.0081	0.0329 ± 0.0044	<0.037	0.0096 ± 0.0024
NB7087	TRA/HR/2022/2970/049/C	Concrete	12/07/2022	0.0422 ± 0.0047	0.0422 ± 0.0047	0.039 ± 0.0037	0.052 ± 0.014	0.0134 ± 0.0017
NB7088	TRA/HR/2022/2970/050/C	Concrete	12/07/2022	0.0307 ± 0.0076	0.0307 ± 0.0076	0.0275 ± 0.0039	<0.034	0.0076 ± 0.0022
NB7089	TRA/HR/2022/2970/051/C	Concrete	12/07/2022	0.0697 ± 0.0083	0.0697 ± 0.0083	0.0629 ± 0.006	<0.038	0.0195 ± 0.0031
NB7090	TRA/HR/2022/2970/052/C	Concrete	12/07/2022	0.0446 ± 0.0077	0.0446 ± 0.0077	0.0506 ± 0.0062	<0.037	0.0153 ± 0.0029
NB7091	TRA/HR/2022/2970/053/C	Concrete	12/07/2022	0.0419 ± 0.006	0.0419 ± 0.006	0.0403 ± 0.0043	0.051 ± 0.02	0.013 ± 0.0021
NB7092	TRA/HR/2022/2970/054/C	Concrete	12/07/2022	0.0329 ± 0.0059	0.0329 ± 0.0059	0.0272 ± 0.0039	<0.030	0.0093 ± 0.002
NB7093	TRA/HR/2022/2970/055/C	Concrete	12/07/2022	0.0305 ± 0.0047	0.0305 ± 0.0047	0.0327 ± 0.0034	<0.021	0.0092 ± 0.0015
NB7094	TRA/HR/2022/2970/058/C	Concrete	12/07/2022	0.0364 ± 0.0053	0.0364 ± 0.0053	0.0334 ± 0.0036	0.058 ± 0.019	0.0126 ± 0.0019
NB7095	TRA/HR/2022/2970/059/C	Concrete	12/07/2022	0.0298 ± 0.0042	0.0298 ± 0.0042	0.0286 ± 0.0035	0.038 ± 0.013	0.0094 ± 0.0015
NB7096	TRA/HR/2022/2970/061/C	Concrete	19/07/2022	0.0375 ± 0.0096	0.0375 ± 0.0096	0.0295 ± 0.005	<0.050	0.0112 ± 0.0029
NB7097	TRA/HR/2022/2970/062/C	Concrete	19/07/2022	0.0322 ± 0.0055	0.0322 ± 0.0055	0.0327 ± 0.0035	<0.026	0.0116 ± 0.0018
NB7098	TRA/HR/2022/2970/063/C	Concrete	19/07/2022	0.0259 ± 0.0042	0.0259 ± 0.0042	0.028 ± 0.0031	<0.021	0.0088 ± 0.0016
NB7099	TRA/HR/2022/2970/064/C	Concrete	19/07/2022	0.0363 ± 0.0048	0.0363 ± 0.0048	0.0337 ± 0.0033	0.041 ± 0.015	0.0113 ± 0.0017
NB7100	TRA/HR/2022/2960/065/C	Concrete	26/07/2022	0.034 ± 0.0077	0.034 ± 0.0077	0.0325 ± 0.0052	<0.041	0.0085 ± 0.0027
NB7101	TRA/HR/2022/2960/067/C	Concrete	26/07/2022	0.0407 ± 0.0059	0.0407 ± 0.0059	0.0343 ± 0.0041	<0.026	0.0119 ± 0.0021
NB7102	TRA/HR/2022/2960/068/C	Concrete	26/07/2022	0.03 ± 0.0042	0.03 ± 0.0042	0.0305 ± 0.0033	0.034 ± 0.013	0.0102 ± 0.0015
NB7103	TRA/HR/2022/2960/070/C	Concrete	26/07/2022	0.032 ± 0.007	0.032 ± 0.007	0.0288 ± 0.0041	<0.038	0.008 ± 0.0023
NB7104	TRA/HR/2022/2960/071/C	Concrete	26/07/2022	0.036 ± 0.0084	0.036 ± 0.0084	0.0365 ± 0.0045	<0.043	0.0112 ± 0.0028
NB7105	TRA/HR/2022/2960/072/C	Concrete	26/07/2022	0.0394 ± 0.0063	0.0394 ± 0.0063	0.0436 ± 0.0055	<0.031	0.0131 ± 0.0022

Table 6. Gamma spectrometry for the ^{232}Th decay series (^{228}Ra , ^{228}Ac , ^{212}Pb , ^{212}Bi , ^{208}Tl). ^{228}Ra has been estimated assuming secular equilibrium of its daughter nuclide ^{228}Ac . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix	Sampling Date (reference date)	Gamma Spectrometry				
				Thorium-232 Decay Series				
				Ra-228 via Ac-228 (Bq/g)	Ac-228 (Bq/g)	Pb-212 (Bq/g)	Bi-212 (Bq/g)	Tl-208 (Bq/g)
NB7106	TRA/HR/2022/2960/073/C	Concrete	26/07/2022	0.0515 ± 0.006	0.0515 ± 0.006	0.0453 ± 0.0046	0.069 ± 0.021	0.0149 ± 0.0022
NB7107	TRA/HR/2022/2960/074/C	Concrete	26/07/2022	0.0379 ± 0.0042	0.0379 ± 0.0042	0.0379 ± 0.0037	0.042 ± 0.012	0.012 ± 0.0015
NB7108	TRA/HR/2022/2960/075/C	Concrete	26/07/2022	0.0377 ± 0.0049	0.0377 ± 0.0049	0.0384 ± 0.004	0.043 ± 0.017	0.013 ± 0.0018
NB7109	TRA/HR/2022/2960/076/C	Concrete	26/07/2022	0.0319 ± 0.0059	0.0319 ± 0.0059	0.0298 ± 0.0033	<0.027	0.0092 ± 0.0019
NB7110	TRA/HR/2022/2960/077/C	Concrete	26/07/2022	0.0401 ± 0.0057	0.0401 ± 0.0057	0.0387 ± 0.0046	0.049 ± 0.018	0.0127 ± 0.0019
NB7111	TRA/HR/2022/2960/079/C	Concrete	26/07/2022	0.026 ± 0.0054	0.026 ± 0.0054	0.0257 ± 0.0034	<0.025	0.0086 ± 0.0018
NB7112	TRA/HR/2022/2960/082/C	Concrete	26/07/2022	0.0291 ± 0.0041	0.0291 ± 0.0041	0.028 ± 0.0031	0.033 ± 0.013	0.0077 ± 0.0014
NB7113	TRA/HR/2022/2960/083/C	Concrete	26/07/2022	0.0254 ± 0.0097	0.0254 ± 0.0097	0.0324 ± 0.0041	<0.037	0.0103 ± 0.0024
NB7114	TRA/HR/2022/2960/084/C	Concrete	26/07/2022	0.0483 ± 0.0071	0.0483 ± 0.0071	0.0374 ± 0.0041	<0.034	0.0142 ± 0.0024
NB7115	TRA/HR/2022/2960/085/C	Concrete	26/07/2022	0.037 ± 0.0053	0.037 ± 0.0053	0.0357 ± 0.0043	<0.023	0.0112 ± 0.0018
NB7116	TRA/HR/2022/2960/086/C	Concrete	26/07/2022	0.0362 ± 0.0058	0.0362 ± 0.0058	0.0339 ± 0.0039	<0.026	0.0105 ± 0.002
NB7117	TRA/HR/2022/2960/087/C	Concrete	26/07/2022	0.0359 ± 0.0045	0.0359 ± 0.0045	0.0334 ± 0.0034	0.037 ± 0.013	0.0103 ± 0.0014
NB7118	TRA/HR/2022/2960/088/C	Concrete	26/07/2022	0.0403 ± 0.0051	0.0403 ± 0.0051	0.0383 ± 0.0037	0.05 ± 0.016	0.0117 ± 0.0018
NB7119	TRA/HR/2022/2901/089/C	Concrete	05/07/2022	0.0344 ± 0.0047	0.0344 ± 0.0047	0.0314 ± 0.0032	0.047 ± 0.017	0.0099 ± 0.0018
NB7120	TRA/HR/2022/2901/090/C	Concrete	05/07/2022	0.0228 ± 0.0045	0.0228 ± 0.0045	0.0198 ± 0.0032	<0.023	0.0062 ± 0.0016
NB7121	TRA/HR/2022/2901/091/C	Concrete	05/07/2022	0.0308 ± 0.0043	0.0308 ± 0.0043	0.0274 ± 0.0035	<0.020	0.0093 ± 0.0015
NB7122	TRA/HR/2022/2901/092/C	Concrete	05/07/2022	0.0304 ± 0.0036	0.0304 ± 0.0036	0.03 ± 0.0031	0.028 ± 0.011	0.0097 ± 0.0012
NB7123	TRA/HR/2022/2901/093/C	Concrete	05/07/2022	0.0301 ± 0.0044	0.0301 ± 0.0044	0.0283 ± 0.0037	<0.021	0.0102 ± 0.0016
NB7124	TRA/HR/2022/2951/094/C	Concrete	05/07/2022	0.034 ± 0.0051	0.034 ± 0.0051	0.0324 ± 0.0034	0.054 ± 0.017	0.0103 ± 0.0017
NB7125	TRA/HR/2022/2951/095/C	Concrete	05/07/2022	0.0308 ± 0.0044	0.0308 ± 0.0044	0.0275 ± 0.0034	<0.020	0.0088 ± 0.0015
NB7126	TRA/HR/2022/2951/096/C	Concrete	05/07/2022	0.0316 ± 0.0045	0.0316 ± 0.0045	0.0299 ± 0.0032	0.043 ± 0.014	0.0103 ± 0.0016

Table 6. Gamma spectrometry for the ^{232}Th decay series (^{228}Ra , ^{228}Ac , ^{212}Pb , ^{212}Bi , ^{208}Tl). ^{228}Ra has been estimated assuming secular equilibrium of its daughter nuclide ^{228}Ac . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix	Sampling Date (reference date)	Gamma Spectrometry				
				Thorium-232 Decay Series				
				Ra-228 via Ac-228 (Bq/g)	Ac-228 (Bq/g)	Pb-212 (Bq/g)	Bi-212 (Bq/g)	Tl-208 (Bq/g)
NB7127	TRA/HR/2022/2951/097/C	Concrete	05/07/2022	0.0312 ± 0.0039	0.0312 ± 0.0039	0.03 ± 0.003	0.034 ± 0.011	0.0092 ± 0.0013
NB7128	TRA/HR/2022/2951/098/C	Concrete	05/07/2022	0.0365 ± 0.0053	0.0365 ± 0.0053	0.034 ± 0.0044	<0.025	0.0107 ± 0.002
NB7129	TRA/HR/2022/2601/099/C	Concrete	21/07/2022	0.0392 ± 0.0051	0.0392 ± 0.0051	0.0372 ± 0.0036	0.045 ± 0.015	0.0126 ± 0.0018
NB7130	TRA/HR/2022/2651/104/C	Concrete	25/07/2022	0.0322 ± 0.005	0.0322 ± 0.005	0.0339 ± 0.004	0.05 ± 0.017	0.0106 ± 0.0017
NB7131	TRA/HR/2022/2651/105/C	Concrete	25/07/2022	0.0448 ± 0.0078	0.0448 ± 0.0078	0.0409 ± 0.0052	<0.042	0.0136 ± 0.0029
NB7132	TRA/HR/2022/2602/100/C	Concrete	21/07/2022	0.0297 ± 0.0035	0.0297 ± 0.0035	0.0292 ± 0.0028	0.033 ± 0.0099	0.0096 ± 0.0012
NB7133	TRA/HR/2022/2603/101/C	Concrete	21/07/2022	0.0303 ± 0.0044	0.0303 ± 0.0044	0.0265 ± 0.0035	<0.019	0.01 ± 0.0015
NB7134	TRA/HR/2022/2651/102/C	Concrete	25/07/2022	0.0295 ± 0.0056	0.0295 ± 0.0056	0.0271 ± 0.0031	<0.024	0.0097 ± 0.0018
NB7135	TRA/HR/2022/2651/103/C	Concrete	25/07/2022	0.031 ± 0.0047	0.031 ± 0.0047	0.0281 ± 0.0029	<0.024	0.0094 ± 0.0017
NB7136	TRA/HR/2022/2652/111/C	Concrete	25/07/2022	0.0324 ± 0.0032	0.0324 ± 0.0032	0.0316 ± 0.0027	0.046 ± 0.01	0.0099 ± 0.0011
NB7137	TRA/HR/2022/2651/106/C	Concrete	25/07/2022	0.0196 ± 0.0036	0.0196 ± 0.0036	0.0202 ± 0.0022	<0.020	0.0069 ± 0.0012
NB7138	TRA/HR/2022/2652/107/C	Concrete	23/06/2022	0.0309 ± 0.0047	0.0309 ± 0.0047	0.0303 ± 0.0029	0.04 ± 0.016	0.0092 ± 0.0016
NB7139	TRA/HR/2022/2652/108/C	Concrete	25/07/2022	0.031 ± 0.0046	0.031 ± 0.0046	0.0298 ± 0.0034	<0.022	0.0093 ± 0.0016
NB7140	TRA/HR/2022/2652/109/C	Concrete	25/07/2022	0.0322 ± 0.0051	0.0322 ± 0.0051	0.0274 ± 0.0031	<0.026	0.0082 ± 0.0017
NB7141	TRA/HR/2022/2652/110/C	Concrete	25/07/2022	0.024 ± 0.0034	0.024 ± 0.0034	0.0213 ± 0.003	0.034 ± 0.011	0.0078 ± 0.0012
NB7142	TRA/HR/2022/2653/114/C	Concrete	25/07/2022	0.0277 ± 0.0065	0.0277 ± 0.0065	0.0223 ± 0.0032	<0.033	0.0081 ± 0.002
NB7143	TRA/HR/2022/2653/112/C	Concrete	25/07/2022	0.0316 ± 0.0044	0.0316 ± 0.0044	0.0338 ± 0.003	<0.023	0.0103 ± 0.0016
NB7144	TRA/HR/2022/2653/113/C	Concrete	25/07/2022	0.0296 ± 0.0047	0.0296 ± 0.0047	0.0303 ± 0.0037	<0.022	0.009 ± 0.0017
NB7145	TRA/HR/2022/2653/115/C	Concrete	25/07/2022	0.0308 ± 0.0037	0.0308 ± 0.0037	0.0322 ± 0.0028	0.034 ± 0.012	0.0095 ± 0.0013
NB7146	TRA/HR/2022/2653/116/C	Concrete	25/07/2022	0.0288 ± 0.0037	0.0288 ± 0.0037	0.0309 ± 0.0027	0.033 ± 0.012	0.0113 ± 0.0014
NB7147	TRA/HR/2022/2507/117/C	Concrete	20/07/2022	0.0309 ± 0.0041	0.0309 ± 0.0041	0.0297 ± 0.0026	<0.020	0.0105 ± 0.0017

Table 6. Gamma spectrometry for the ^{232}Th decay series (^{228}Ra , ^{228}Ac , ^{212}Pb , ^{212}Bi , ^{208}Tl). ^{228}Ra has been estimated assuming secular equilibrium of its daughter nuclide ^{228}Ac . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix	Sampling Date (reference date)	Gamma Spectrometry				
				Thorium-232 Decay Series				
				Ra-228 via Ac-228 (Bq/g)	Ac-228 (Bq/g)	Pb-212 (Bq/g)	Bi-212 (Bq/g)	Tl-208 (Bq/g)
NB7148	TRA/HR/2022/2507/118/C	Concrete	20/07/2022	0.0343 ± 0.0067	0.0343 ± 0.0067	0.0365 ± 0.0049	<0.035	0.0103 ± 0.0023
NB7149	TRA/HR/2022/2508/119/C	Concrete	20/07/2022	0.0311 ± 0.0032	0.0311 ± 0.0032	0.0309 ± 0.0025	0.0354 ± 0.0095	0.0091 ± 0.0011
NB7150	TRA/HR/2022/2508/120/C	Concrete	20/07/2022	0.032 ± 0.0044	0.032 ± 0.0044	0.0242 ± 0.0034	<0.023	0.0091 ± 0.0015
NB7151	TRA/HR/2022/2509/121/C	Concrete	20/07/2022	0.0373 ± 0.0066	0.0373 ± 0.0066	0.0308 ± 0.0035	<0.035	0.0108 ± 0.0024
NB7152	TRA/HR/2022/2509/122/C	Concrete	20/07/2022	0.0446 ± 0.007	0.0446 ± 0.007	0.0322 ± 0.0057	<0.033	0.0141 ± 0.0026
NB7153	TRA/HR/2022/2751/123/C	Concrete	21/07/2022	0.0302 ± 0.0051	0.0302 ± 0.0051	0.0246 ± 0.0033	<0.025	0.0091 ± 0.0018
NB7154	TRA/HR/2022/2751/124/C	Concrete	21/07/2022	0.0313 ± 0.0045	0.0313 ± 0.0045	0.0292 ± 0.0042	<0.022	0.0109 ± 0.0016
NB7155	TRA/HR/2022/2752/125/C	Concrete	21/07/2022	0.041 ± 0.0049	0.041 ± 0.0049	0.0343 ± 0.0032	<0.023	0.0117 ± 0.0017
NB7156	TRA/HR/2022/2752/126/C	Concrete	21/07/2022	0.032 ± 0.0035	0.032 ± 0.0035	0.0326 ± 0.0028	0.046 ± 0.012	0.0089 ± 0.0012
NB7157	TRA/HR/2022/2753/127/C	Concrete	21/07/2022	0.0362 ± 0.0043	0.0362 ± 0.0043	0.0337 ± 0.0033	0.042 ± 0.014	0.0114 ± 0.0015
NB7158	TRA/HR/2022/2753/128/C	Concrete	21/07/2022	0.032 ± 0.0067	0.032 ± 0.0067	0.0299 ± 0.0037	<0.040	0.0095 ± 0.0022
NB7159	TRA/HR/2022/2670/180/C	Concrete	28/07/2022	0.0315 ± 0.0039	0.0315 ± 0.0039	0.0291 ± 0.0027	0.036 ± 0.013	0.0103 ± 0.0015
NB7160	TRA/HR/2022/2610/181/C	Concrete	28/07/2022	0.035 ± 0.0045	0.035 ± 0.0045	0.0326 ± 0.0032	0.038 ± 0.015	0.0098 ± 0.0014
NB7161	TRA/HR/2022/2610/182/C	Concrete	28/07/2022	0.0322 ± 0.0045	0.0322 ± 0.0045	0.0277 ± 0.0028	0.038 ± 0.015	0.0083 ± 0.0014
NB7162	TRA/HR/2022/2610/183/C	Concrete	28/07/2022	0.0324 ± 0.0033	0.0324 ± 0.0033	0.0316 ± 0.0026	0.037 ± 0.01	0.0103 ± 0.0012
NB7163	TRA/HR/2022/2610/184/C	Concrete	28/07/2022	0.0283 ± 0.0037	0.0283 ± 0.0037	0.0289 ± 0.0026	0.051 ± 0.013	0.0092 ± 0.0012
NB7164	TRA/HR/2022/2605/190/C	Concrete	26/05/2022	0.0298 ± 0.0042	0.0298 ± 0.0042	0.0254 ± 0.0023	<0.020	0.0082 ± 0.0014
NB7165	TRA/HR/2022/2605/191/C	Concrete	26/05/2022	0.037 ± 0.005	0.037 ± 0.005	0.0372 ± 0.0038	0.042 ± 0.016	0.0122 ± 0.0018
NB7166	TRA/HR/2022/2605/194/C	Concrete	26/05/2022	0.0264 ± 0.005	0.0264 ± 0.005	0.0234 ± 0.0029	<0.023	0.0071 ± 0.0015
NB7167	TRA/HR/2022/2605/195/C	Concrete	26/05/2022	0.0314 ± 0.0042	0.0314 ± 0.0042	0.029 ± 0.0026	0.036 ± 0.014	0.0099 ± 0.0015
NB7168	TRA/HR/2022/2605/196/C	Concrete	26/05/2022	0.0375 ± 0.0044	0.0375 ± 0.0044	0.033 ± 0.004	0.041 ± 0.014	0.0132 ± 0.0015

Table 6. Gamma spectrometry for the ^{232}Th decay series (^{228}Ra , ^{228}Ac , ^{212}Pb , ^{212}Bi , ^{208}Tl). ^{228}Ra has been estimated assuming secular equilibrium of its daughter nuclide ^{228}Ac . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix	Sampling Date (reference date)	Gamma Spectrometry				
				Thorium-232 Decay Series				
				Ra-228 via Ac-228 (Bq/g)	Ac-228 (Bq/g)	Pb-212 (Bq/g)	Bi-212 (Bq/g)	Tl-208 (Bq/g)
NB7169	TRA/HR/2022/2605/198/C	Concrete	26/05/2022	0.0434 ± 0.0044	0.0434 ± 0.0044	0.0387 ± 0.0032	0.044 ± 0.015	0.0122 ± 0.0017
NB7170	TRA/HR/2022/2605/201/C	Concrete	01/06/2022	0.0341 ± 0.0047	0.0341 ± 0.0047	0.0361 ± 0.0038	0.042 ± 0.015	0.0109 ± 0.0016
NB7171	TRA/HR/2022/2605/203/C	Concrete	01/06/2022	0.0313 ± 0.0035	0.0313 ± 0.0035	0.033 ± 0.0028	0.031 ± 0.01	0.0106 ± 0.0012
NB7172	TRA/HR/2022/2605/204/C	Concrete	01/06/2022	0.0244 ± 0.0029	0.0244 ± 0.0029	0.0251 ± 0.0022	0.032 ± 0.0099	0.0081 ± 0.0011
NB7173	TRA/HR/2022/2605/205/C	Concrete	01/06/2022	0.0454 ± 0.0074	0.0454 ± 0.0074	0.0346 ± 0.0042	<0.040	0.0142 ± 0.0026
NB7174	TRA/HR/2022/2605/206/C	Concrete	01/06/2022	0.0382 ± 0.0046	0.0382 ± 0.0046	0.0324 ± 0.0029	0.05 ± 0.016	0.0123 ± 0.0017
NB7175	TRA/HR/2022/2514/208/C	Concrete	01/06/2022	0.0333 ± 0.0051	0.0333 ± 0.0051	0.03 ± 0.0041	<0.026	0.0086 ± 0.0018
NB7176	TRA/HR/2022/2512/209/C	Concrete	01/06/2022	0.0352 ± 0.0064	0.0352 ± 0.0064	0.0317 ± 0.004	<0.036	0.0113 ± 0.0021
NB7177	TRA/HR/2022/2771/211/C	Concrete	08/06/2022	0.0343 ± 0.0043	0.0343 ± 0.0043	0.0325 ± 0.0037	0.039 ± 0.014	0.011 ± 0.0014
NB7178	TRA/HR/2022/2771/213/C	Concrete	08/06/2022	0.0412 ± 0.0049	0.0412 ± 0.0049	0.0405 ± 0.0042	0.041 ± 0.015	0.0126 ± 0.0017
NB7179	TRA/HR/2022/2771/215/C	Concrete	08/06/2022	0.0333 ± 0.0032	0.0333 ± 0.0032	0.0335 ± 0.0028	0.039 ± 0.011	0.0104 ± 0.0012
NB7180	TRA/HR/2022/2771/217/C	Concrete	08/06/2022	0.0324 ± 0.005	0.0324 ± 0.005	0.0274 ± 0.0041	<0.024	0.0115 ± 0.0017
NB7181	TRA/HR/2022/2771/219/C	Concrete	09/06/2022	0.0322 ± 0.0053	0.0322 ± 0.0053	0.0244 ± 0.0025	<0.024	0.0093 ± 0.0017
NB7182	TRA/HR/2022/2771/221/C	Concrete	09/06/2022	0.0317 ± 0.0064	0.0317 ± 0.0064	0.0273 ± 0.0043	<0.033	0.0102 ± 0.0023
NB7183	TRA/HR/2022/2771/222/C	Concrete	09/06/2022	0.0289 ± 0.003	0.0289 ± 0.003	0.0316 ± 0.0026	0.038 ± 0.01	0.0098 ± 0.0011
NB7184	TRA/HR/2022/2771/223/C	Concrete	09/06/2022	0.0501 ± 0.0061	0.0501 ± 0.0061	0.0452 ± 0.0046	0.056 ± 0.019	0.0146 ± 0.0021
NB7185	TRA/HR/2022/2771/224/C	Concrete	09/06/2022	0.0279 ± 0.0043	0.0279 ± 0.0043	0.0228 ± 0.0037	<0.022	0.0094 ± 0.0015
NB7186	TRA/HR/2022/2771/227/C	Concrete	09/06/2022	0.038 ± 0.0046	0.038 ± 0.0046	0.0345 ± 0.003	<0.025	0.0111 ± 0.0018
NB7187	TRA/HR/2022/2771/228/C	Concrete	09/06/2022	0.0314 ± 0.0031	0.0314 ± 0.0031	0.0292 ± 0.0025	0.0289 ± 0.0091	0.009 ± 0.0011
NB7188	TRA/HR/2022/2771/229/C	Concrete	09/06/2022	0.0324 ± 0.0046	0.0324 ± 0.0046	0.0298 ± 0.0039	<0.022	0.0111 ± 0.0016
NC4099	TRA-HR-2022-1751-AS1-C	Concrete	27/04/2023	0.0359 ± 0.0056	0.0359 ± 0.0056	0.0338 ± 0.0039	0.046 ± 0.018	0.0102 ± 0.002

Table 6. Gamma spectrometry for the ^{232}Th decay series (^{228}Ra , ^{228}Ac , ^{212}Pb , ^{212}Bi , ^{208}Tl). ^{228}Ra has been estimated assuming secular equilibrium of its daughter nuclide ^{228}Ac . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix	Sampling Date (reference date)	Gamma Spectrometry				
				Thorium-232 Decay Series				
				Ra-228 via Ac-228 (Bq/g)	Ac-228 (Bq/g)	Pb-212 (Bq/g)	Bi-212 (Bq/g)	Tl-208 (Bq/g)
NC4100	TRA-HR-2022-1751-AS2-C	Concrete	27/04/2023	0.0351 ± 0.0058	0.0351 ± 0.0058	0.034 ± 0.0036	<0.026	0.0116 ± 0.0018
NC4101	TRA-HR-2022-1752-AS3-C	Concrete	27/04/2023	0.0309 ± 0.0045	0.0309 ± 0.0045	0.0325 ± 0.0035	0.038 ± 0.015	0.0096 ± 0.0017
NC4102	TRA-HR-2022-1752-AS4-C	Concrete	27/04/2023	0.0312 ± 0.0055	0.0312 ± 0.0055	0.0282 ± 0.0034	<0.027	0.0101 ± 0.0019
NC4103	TRA-HR-2022-1901-AS5-C	Concrete	27/04/2023	0.0331 ± 0.0058	0.0331 ± 0.0058	0.0335 ± 0.0033	<0.03	0.0116 ± 0.0022
NC4104	TRA-HR-2022-1951-AS7-C	Concrete	27/04/2023	0.0331 ± 0.0064	0.0331 ± 0.0064	0.0335 ± 0.0038	0.052 ± 0.02	0.0126 ± 0.0021
NC4105	TRA-HR-2022-2752-AS8-C	Concrete	09/05/2023	0.0338 ± 0.0049	0.0338 ± 0.0049	0.0326 ± 0.0032	<0.022	0.0107 ± 0.0017
NC4106	TRA-HR-2022-2071-AS12-C	Concrete	09/05/2023	<0.015	<0.015	0.0306 ± 0.0041	<0.04	0.0078 ± 0.0024
NC4115	TRA-HR-2022-1901-AS6-C	Concrete	27/04/2023	0.0412 ± 0.0065	0.0412 ± 0.0065	0.0405 ± 0.0039	<0.033	0.0147 ± 0.0026
NC4116	TRA-HR-2022-2771-AS9-C	Concrete	09/05/2023	0.0356 ± 0.0053	0.0356 ± 0.0053	0.0368 ± 0.0037	<0.026	0.0126 ± 0.0019
NC4119	TRA-HR-2022-2970-AS10-C	Concrete	11/05/2023	0.034 ± 0.013	0.034 ± 0.013	0.0251 ± 0.0037	<0.045	0.0079 ± 0.0024
NC4122	TRA-HR-2022-2970-AS11-C	Concrete	09/05/2023	0.0395 ± 0.0071	0.0395 ± 0.0071	0.0336 ± 0.0035	<0.031	0.011 ± 0.0022
NC4125	TRA-HR-2022-2802.north.debris	Debris	09/05/2023	<0.075	<0.075	<0.011	<0.21	<0.012
NC4126	TRA-HR-2022-2802.east.debris	Debris	09/05/2023	<0.09	<0.09	<0.016	<0.3	<0.014
NC4127	TRA-HR-2022-2802.south.debris	Debris	09/05/2023	<0.04	<0.04	<0.01	<0.14	<0.0068
NC4128	TRA-HR-2022-2802.west.debris	Debris	09/05/2023	<0.033	<0.033	<0.0076	<0.12	<0.0056
NC1086	Bulk Paint Sample 1	Paint (flakes)	01/01/2023	<0.017	<0.017	<0.0054	<0.054	<0.0040
NC1087	Bulk Paint Sample 2	Paint (flakes)	01/01/2023	<0.017	<0.017	<0.0052	<0.055	<0.0039

Table 7. Gamma spectrometry for the ^{238}U decay series (^{234}Th , $^{234\text{m}}\text{Pa}$, ^{226}Ra , ^{214}Pb , ^{214}Bi , ^{210}Pb). Note that ^{226}Ra has only one gamma ray at 186 keV and the major gamma ray from ^{235}U also occurs at 186 keV. ^{235}U can be measured by the lower abundance gamma ray at 144 keV and if a positive result for ^{235}U is reported the ^{226}Ra result will be overestimated. If ^{235}U is below the LoD there may still be a contribution to the ^{226}Ra signal from ^{235}U and the ^{226}Ra result may still be overestimated. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Uranium-238 Decay Series					
				Th-234 (Bq/g)	Pa-234m (Bq/g)	Ra-226* (Bq/g)	Pb-214 (Bq/g)	Bi-214 (Bq/g)	Pb-210 (Bq/g)
NB6528	TRA/HR/2022/1E91/001/F	Roofing felt	29/06/2022	<0.26	<2.5	<0.34	<0.032	<0.040	<0.21
NB6529	TRA/HR/2022/1E91/003/F	Roofing felt	29/06/2022	<0.11	<0.87	<0.14	<0.014	<0.016	<0.089
NB6530	TRA/HR/2022/1E91/004/F	Roofing felt	29/06/2022	<0.18	<1.6	<0.24	<0.023	<0.027	<0.14
NB6531	TRA/HR/2022/1E91/005/F	Roofing felt	29/06/2022	<0.097	<0.81	<0.12	<0.012	<0.013	<0.078
NB6532	TRA/HR/2022/1E91/007/F	Roofing felt	29/06/2022	<0.16	<1.4	<0.20	<0.020	<0.023	<0.13
NB6533	TRA/HR/2022/1E91/008/F	Roofing felt	29/06/2022	<0.20	<1.6	<0.25	<0.024	<0.028	<0.16
NB6534	TRA/HR/2022/1E91/009/F	Roofing felt	29/06/2022	<0.092	<1.2	<0.13	<0.017	<0.021	<0.094
NB6535	TRA/HR/2022/1E91/011/F	Roofing felt	04/07/2022	<0.055	<0.63	<0.070	<0.0090	<0.012	<0.055
NB6536	TRA/HR/2022/1E91/013/F	Roofing felt	04/07/2022	<0.093	<1.3	<0.14	<0.018	<0.021	<0.094
NB6537	TRA/HR/2022/1E91/014/F	Roofing felt	04/07/2022	<0.061	<0.76	<0.086	<0.012	<0.014	<0.061
NB6538	TRA/HR/2022/1E91/015/F	Roofing felt	04/07/2022	<0.091	<1.2	<0.13	<0.017	<0.020	<0.092
NB6539	TRA/HR/2022/1E91/016/F	Roofing felt	04/07/2022	<0.13	<1.6	<0.18	<0.024	<0.027	<0.13
NB6540	TRA/HR/2022/1E91/018/F	Roofing felt	04/07/2022	<0.077	<0.95	<0.11	<0.015	<0.017	<0.082
NB6541	TRA/HR/2022/1E91/019/F	Roofing felt	04/07/2022	<0.060	<0.65	<0.074	<0.010	<0.012	<0.065
NB6542	TRA/HR/2022/1E91/020/F	Roofing felt	04/07/2022	<0.097	<1.5	<0.14	<0.020	<0.024	<0.077
NB6543	TRA/HR/2022/1751/133/M	Metal	28/06/2022	<0.032	<0.25	<0.040	<0.0049	<0.0052	<0.031
NB6544	TRA/HR/2022/1651/134/M	Metal	28/06/2022	<0.033	<0.54	<0.050	<0.0068	<0.0087	<0.026
NB6545	TRA/HR/2022/1610/135/P	Paint (flakes)	24/06/2022	<0.41	<3.4	<0.51	<0.051	<0.060	<0.30
NB6546	TRA/HR/2022/1610/137/P	Paint (flakes)	24/06/2022	<0.26	<3.5	<0.45	<0.050	<0.063	<0.21

Table 7. Gamma spectrometry for the ^{238}U decay series (^{234}Th , $^{234\text{m}}\text{Pa}$, ^{226}Ra , ^{214}Pb , ^{214}Bi , ^{210}Pb). Note that ^{226}Ra has only one gamma ray at 186 keV and the major gamma ray from ^{235}U also occurs at 186 keV. ^{235}U can be measured by the lower abundance gamma ray at 144 keV and if a positive result for ^{235}U is reported the ^{226}Ra result will be overestimated. If ^{235}U is below the LoD there may still be a contribution to the ^{226}Ra signal from ^{235}U and the ^{226}Ra result may still be overestimated. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Uranium-238 Decay Series					
				Th-234 (Bq/g)	Pa-234m (Bq/g)	Ra-226* (Bq/g)	Pb-214 (Bq/g)	Bi-214 (Bq/g)	Pb-210 (Bq/g)
NB6547	TRA/HR/2022/1610/141/P	Paint (flakes)	24/06/2022	<0.46	<6.1	<0.65	<0.090	<0.11	<0.42
NB6548	TRA/HR/2022/1610/145/P	Paint (flakes)	24/06/2022	<0.24	<4.1	<0.35	<0.048	<0.064	<0.18
NB6549	TRA/HR/2022/1610/147/P	Paint (flakes)	27/06/2022	<0.45	<4.2	<0.60	<0.076	<0.082	<0.39
NB6550	TRA/HR/2022/1610/151/P	Paint (flakes)	27/06/2022	<0.56	<4.7	<0.69	<0.071	<0.082	<0.41
NB6551	TRA/HR/2022/1610/154/P	Paint (flakes)	27/06/2022	<0.27	<3.4	<0.47	<0.053	<0.063	<0.23
NB6552	TRA/HR/2022/1610/157/P	Paint (flakes)	27/06/2022	<0.42	<6.0	<0.63	<0.085	<0.11	<0.41
NB6553	TRA/HR/2022/1610/159/P	Paint (flakes)	27/06/2022	<0.36	<5.3	<0.51	<0.070	<0.088	<0.26
NB6554	TRA/HR/2022/1610/160/P	Paint (flakes)	27/06/2022	<0.40	<3.6	<0.53	<0.067	<0.071	<0.35
NB6555	TRA/HR/2022/1610/163/P	Paint (flakes)	28/06/2022	<0.32	<4.5	<0.48	<0.064	<0.079	<0.31
NB6556	TRA/HR/2022/1610/167/P	Paint (flakes)	28/06/2022	<0.17	<2.1	<0.29	<0.032	<0.040	<0.14
NB6557	TRA/HR/2022/1670/170/P	Paint (flakes)	28/06/2022	<0.21	<3.0	<0.32	<0.042	<0.051	<0.20
NB6558	TRA/HR/2022/1670/172/P	Paint (flakes)	28/06/2022	<0.37	<5.6	<0.52	<0.069	<0.094	<0.27
NB6559	TRA/HR/2022/1670/174/P	Paint (flakes)	28/06/2022	<0.64	<5.8	<0.85	<0.11	<0.12	<0.55
NB6560	TRA/HR/2022/1670/175/P	Paint (flakes)	28/06/2022	<1.2	<18	<1.7	<0.24	<0.30	<0.87
NB6561	TRA/HR/2022/1670/176/P	Paint (flakes)	29/06/2022	<0.26	<3.3	<0.44	<0.047	<0.060	<0.20
NB6562	TRA/HR/2022/1670/177/P	Paint (flakes)	29/06/2022	<0.75	<6.8	<0.99	<0.13	<0.14	<0.64
NB6563	TRA/HR/2022/1670/178/P	Paint (flakes)	29/06/2022	<1.9	<18	<2.4	<0.24	<0.27	<1.4
NB6564	TRA/HR/2022/1670/179/P	Paint (flakes)	29/06/2022	<0.70	<5.9	<0.94	<0.12	<0.13	<0.61
NB6565	TRA/HR/2022/1605/232/O	Oil / Grease	11/07/2022	<0.11	<1.5	<0.17	<0.023	<0.028	<0.11

Table 7. Gamma spectrometry for the ^{238}U decay series (^{234}Th , $^{234\text{m}}\text{Pa}$, ^{226}Ra , ^{214}Pb , ^{214}Bi , ^{210}Pb). Note that ^{226}Ra has only one gamma ray at 186 keV and the major gamma ray from ^{235}U also occurs at 186 keV. ^{235}U can be measured by the lower abundance gamma ray at 144 keV and if a positive result for ^{235}U is reported the ^{226}Ra result will be overestimated. If ^{235}U is below the LoD there may still be a contribution to the ^{226}Ra signal from ^{235}U and the ^{226}Ra result may still be overestimated. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Uranium-238 Decay Series					
				Th-234 (Bq/g)	Pa-234m (Bq/g)	Ra-226* (Bq/g)	Pb-214 (Bq/g)	Bi-214 (Bq/g)	Pb-210 (Bq/g)
NB6566	TRA/HR/2022/1605/233/O	Oil / Grease	11/07/2022	<0.16	<2.6	<0.23	<0.031	<0.038	<0.12
NB6567	TRA/HR/2022/1740/234/O	Oil / Grease	11/07/2022	<0.43	<4.0	<0.58	<0.072	<0.079	<0.37
NB6568	TRA/HR/2022/1740/235/O	Oil / Grease	11/07/2022	<0.057	<0.38	<0.064	0.0178 ± 0.0055	<0.0080	<0.047
NB6569	TRA/HR/2022/1E91/021/C	Concrete	22/06/2022	<0.031	<0.19	<0.024	0.0243 ± 0.003	0.0229 ± 0.0034	<0.030
NB6570	TRA/HR/2022/1E91/024/C	Concrete	22/06/2022	<0.025	<0.22	<0.022	0.0200 ± 0.0026	0.0211 ± 0.004	<0.020
NB6571	TRA/HR/2022/1E91/025/C	Concrete	22/06/2022	<0.044	<0.15	<0.027	0.0190 ± 0.0026	0.0174 ± 0.0027	<0.037
NB6572	TRA/HR/2022/1E91/026/C	Concrete	22/06/2022	<0.039	<0.24	<0.034	0.0251 ± 0.0033	0.0227 ± 0.0042	<0.033
NB6573	TRA/HR/2022/1E91/028/C	Concrete	22/06/2022	<0.033	<0.30	<0.034	0.0201 ± 0.0034	0.0148 ± 0.0045	<0.031
NB6574	TRA/HR/2022/1E91/032/C	Concrete	22/06/2022	<0.026	<0.25	<0.024	0.0200 ± 0.0027	0.0169 ± 0.0038	<0.020
NB6575	TRA/HR/2022/1E91/033/C	Concrete	22/06/2022	<0.043	<0.17	<0.031	0.0184 ± 0.0029	0.0192 ± 0.0034	<0.038
NB6576	TRA/HR/2022/1E91/034/C	Concrete	22/06/2022	<0.041	<0.18	<0.028	0.0213 ± 0.0027	0.0187 ± 0.0031	<0.034
NB6577	TRA/HR/2022/1E91/037/C	Concrete	22/06/2022	<0.030	<0.24	<0.028	0.0247 ± 0.0032	0.0221 ± 0.0038	<0.028
NB6578	TRA/HR/2022/1E91/038/C	Concrete	22/06/2022	<0.027	<0.22	<0.024	0.0242 ± 0.003	0.0215 ± 0.0038	<0.022
NB6579	TRA/HR/2022/1960/041/C	Concrete	14/06/2022	<0.054	<0.36	<0.060	0.0473 ± 0.0066	0.0409 ± 0.0069	<0.049
NB6580	TRA/HR/2022/1960/042/C	Concrete	14/06/2022	<0.047	<0.34	<0.046	0.0344 ± 0.0047	0.0305 ± 0.0057	<0.037
NB6581	TRA/HR/2022/1960/044/C	Concrete	14/06/2022	<0.031	<0.22	0.054 ± 0.021	0.0268 ± 0.0032	0.0247 ± 0.0045	<0.030
NB6582	TRA/HR/2022/1960/046/C	Concrete	14/06/2022	<0.026	<0.26	<0.026	0.0237 ± 0.0032	0.0235 ± 0.0042	<0.021
NB6583	TRA/HR/2022/1960/047/C	Concrete	14/06/2022	<0.042	<0.23	<0.038	0.0284 ± 0.004	0.028 ± 0.0046	<0.037
NB6584	TRA/HR/2022/1960/049/C	Concrete	14/06/2022	<0.044	<0.27	0.079 ± 0.03	0.0386 ± 0.0045	0.037 ± 0.0052	<0.037

Table 7. Gamma spectrometry for the ^{238}U decay series (^{234}Th , $^{234\text{m}}\text{Pa}$, ^{226}Ra , ^{214}Pb , ^{214}Bi , ^{210}Pb). Note that ^{226}Ra has only one gamma ray at 186 keV and the major gamma ray from ^{235}U also occurs at 186 keV. ^{235}U can be measured by the lower abundance gamma ray at 144 keV and if a positive result for ^{235}U is reported the ^{226}Ra result will be overestimated. If ^{235}U is below the LoD there may still be a contribution to the ^{226}Ra signal from ^{235}U and the ^{226}Ra result may still be overestimated. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Uranium-238 Decay Series					
				Th-234 (Bq/g)	Pa-234m (Bq/g)	Ra-226* (Bq/g)	Pb-214 (Bq/g)	Bi-214 (Bq/g)	Pb-210 (Bq/g)
NB6585	TRA/HR/2022/1960/050/C	Concrete	14/06/2022	<0.037	<0.35	<0.042	0.0397 ± 0.005	0.0367 ± 0.0059	<0.035
NB6586	TRA/HR/2022/1960/051/C	Concrete	16/06/2022	<0.026	<0.26	0.06 ± 0.019	0.0319 ± 0.0036	0.0319 ± 0.0047	<0.021
NB6587	TRA/HR/2022/1960/052/C	Concrete	16/06/2022	<0.043	<0.22	<0.039	0.0329 ± 0.0042	0.0305 ± 0.0045	<0.038
NB6588	TRA/HR/2022/1960/053/C	Concrete	16/06/2022	<0.044	<0.29	<0.042	0.0281 ± 0.0041	0.0242 ± 0.0048	<0.037
NB6589	TRA/HR/2022/1960/054/C	Concrete	16/06/2022	<0.035	<0.25	0.081 ± 0.024	0.0498 ± 0.0049	0.0445 ± 0.0051	<0.032
NB6590	TRA/HR/2022/1960/055/C	Concrete	16/06/2022	<0.033	<0.42	<0.040	0.0263 ± 0.0043	0.0201 ± 0.0057	<0.026
NB6591	TRA/HR/2022/1960/056/C	Concrete	16/06/2022	<0.043	<0.29	<0.044	0.0207 ± 0.0041	0.0238 ± 0.0052	<0.039
NB6592	TRA/HR/2022/1960/057/C	Concrete	16/06/2022	<0.072	<0.40	0.129 ± 0.042	0.0701 ± 0.0075	0.0639 ± 0.0085	<0.058
NB6593	TRA/HR/2022/1960/058/C	Concrete	16/06/2022	<0.038	<0.33	0.1 ± 0.033	0.0614 ± 0.0065	0.0553 ± 0.007	<0.036
NB6594	TRA/HR/2022/1960/060/C	Concrete	16/06/2022	<0.026	<0.25	<0.025	0.0237 ± 0.0031	0.0171 ± 0.004	<0.021
NB6595	TRA/HR/2022/1960/061/C	Concrete	24/06/2022	<0.049	<0.16	<0.029	0.0226 ± 0.0031	0.0204 ± 0.0031	<0.043
NB6596	TRA/HR/2022/1960/062/C	Concrete	24/06/2022	<0.041	<0.25	<0.037	0.0244 ± 0.0036	0.0253 ± 0.0041	<0.035
NB6597	TRA/HR/2022/1960/063/C	Concrete	24/06/2022	<0.033	<0.29	<0.035	0.0215 ± 0.0036	0.0166 ± 0.0045	<0.032
NB6598	TRA/HR/2022/1960/064/C	Concrete	24/06/2022	<0.027	<0.25	0.058 ± 0.019	0.0253 ± 0.0032	0.0246 ± 0.0041	<0.023
NB6599	TRA/HR/2022/1970/065/C	Concrete	21/06/2022	<0.038	<0.34	<0.052	0.0184 ± 0.0054	0.0214 ± 0.0058	<0.034
NB6600	TRA/HR/2022/1970/066/C	Concrete	21/06/2022	<0.038	<0.23	<0.033	0.02 ± 0.0029	0.0193 ± 0.0039	<0.032
NB6601	TRA/HR/2022/1970/068/C	Concrete	21/06/2022	<0.034	<0.31	<0.037	0.03 ± 0.0041	0.0261 ± 0.0049	<0.033
NB6602	TRA/HR/2022/1970/071/C	Concrete	21/06/2022	<0.026	<0.25	<0.025	0.0238 ± 0.0029	0.017 ± 0.0038	<0.021
NB6603	TRA/HR/2022/1970/072/C	Concrete	21/06/2022	<0.042	<0.20	<0.035	0.0305 ± 0.0039	0.0304 ± 0.0044	<0.036

Table 7. Gamma spectrometry for the ^{238}U decay series (^{234}Th , $^{234\text{m}}\text{Pa}$, ^{226}Ra , ^{214}Pb , ^{214}Bi , ^{210}Pb). Note that ^{226}Ra has only one gamma ray at 186 keV and the major gamma ray from ^{235}U also occurs at 186 keV. ^{235}U can be measured by the lower abundance gamma ray at 144 keV and if a positive result for ^{235}U is reported the ^{226}Ra result will be overestimated. If ^{235}U is below the LoD there may still be a contribution to the ^{226}Ra signal from ^{235}U and the ^{226}Ra result may still be overestimated. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Uranium-238 Decay Series					
				Th-234 (Bq/g)	Pa-234m (Bq/g)	Ra-226* (Bq/g)	Pb-214 (Bq/g)	Bi-214 (Bq/g)	Pb-210 (Bq/g)
NB6604	TRA/HR/2022/1970/073/C	Concrete	21/06/2022	<0.049	<0.36	<0.050	0.0334 ± 0.0047	0.0307 ± 0.0064	<0.041
NB6605	TRA/HR/2022/1970/074/C	Concrete	21/06/2022	<0.032	<0.21	<0.028	0.0298 ± 0.0034	0.0263 ± 0.0038	<0.031
NB6606	TRA/HR/2022/1970/077/C	Concrete	21/06/2022	<0.025	<0.22	<0.023	0.0161 ± 0.0024	0.0134 ± 0.0033	<0.021
NB6607	TRA/HR/2022/1970/078/C	Concrete	21/06/2022	<0.041	<0.21	<0.036	0.0296 ± 0.0038	0.0318 ± 0.0045	<0.036
NB6608	TRA/HR/2022/1970/079/C	Concrete	21/06/2022	<0.042	<0.27	<0.037	0.0338 ± 0.0041	0.0345 ± 0.0048	<0.035
NB6609	TRA/HR/2022/1970/080/C	Concrete	21/06/2022	<0.030	<0.24	<0.029	0.0204 ± 0.0033	0.0189 ± 0.0038	<0.029
NB6610	TRA/HR/2022/1970/082/C	Concrete	21/06/2022	<0.025	<0.24	<0.023	0.0193 ± 0.0026	0.0195 ± 0.0038	<0.021
NB6611	TRA/HR/2022/1970/083/C	Concrete	21/06/2022	<0.041	<0.22	<0.035	0.0261 ± 0.0037	0.0233 ± 0.0041	<0.035
NB6612	TRA/HR/2022/1970/084/C	Concrete	21/06/2022	<0.023	<0.16	<0.023	0.0257 ± 0.0027	0.0218 ± 0.0029	<0.020
NB6613	TRA/HR/2022/1970/085/C	Concrete	23/06/2022	<0.024	<0.12	0.041 ± 0.015	0.0212 ± 0.0023	0.0204 ± 0.0026	<0.021
NB6614	TRA/HR/2022/1970/086/C	Concrete	23/06/2022	<0.026	<0.13	<0.021	0.0234 ± 0.0025	0.0203 ± 0.0028	<0.024
NB6615	TRA/HR/2022/1970/087/C	Concrete	23/06/2022	<0.025	<0.16	0.042 ± 0.017	0.0229 ± 0.0028	0.0228 ± 0.003	<0.023
NB6616	TRA/HR/2022/1970/088/C	Concrete	23/06/2022	<0.031	<0.27	<0.030	0.0263 ± 0.0034	0.0241 ± 0.0042	<0.026
NB6617	TRA/HR/2022/1901/089/C	Concrete	23/05/2022	<0.039	<0.37	<0.042	0.0291 ± 0.0046	0.0222 ± 0.0056	<0.037
NB6618	TRA/HR/2022/1901/090/C	Concrete	23/05/2022	<0.026	<0.25	<0.024	0.0233 ± 0.003	0.0248 ± 0.0038	<0.021
NB6619	TRA/HR/2022/1901/091/C	Concrete	23/05/2022	<0.043	<0.29	<0.043	0.0198 ± 0.0042	0.0207 ± 0.005	<0.038
NB6620	TRA/HR/2022/1901/092/C	Concrete	23/05/2022	<0.051	<0.37	<0.053	0.0223 ± 0.004	0.02 ± 0.0053	<0.041
NB6621	TRA/HR/2022/1901/093/C	Concrete	23/05/2022	<0.037	<0.38	<0.041	0.0213 ± 0.004	0.0202 ± 0.0052	<0.037
NB6622	TRA/HR/2022/1951/094/C	Concrete	23/05/2022	<0.026	<0.26	<0.026	0.0234 ± 0.0031	0.0226 ± 0.0045	<0.021

Table 7. Gamma spectrometry for the ^{238}U decay series (^{234}Th , $^{234\text{m}}\text{Pa}$, ^{226}Ra , ^{214}Pb , ^{214}Bi , ^{210}Pb). Note that ^{226}Ra has only one gamma ray at 186 keV and the major gamma ray from ^{235}U also occurs at 186 keV. ^{235}U can be measured by the lower abundance gamma ray at 144 keV and if a positive result for ^{235}U is reported the ^{226}Ra result will be overestimated. If ^{235}U is below the LoD there may still be a contribution to the ^{226}Ra signal from ^{235}U and the ^{226}Ra result may still be overestimated. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Uranium-238 Decay Series					
				Th-234 (Bq/g)	Pa-234m (Bq/g)	Ra-226* (Bq/g)	Pb-214 (Bq/g)	Bi-214 (Bq/g)	Pb-210 (Bq/g)
NB6623	TRA/HR/2022/1951/095/C	Concrete	23/05/2022	<0.041	<0.20	<0.035	0.0226 ± 0.0034	0.0218 ± 0.0037	<0.036
NB6624	TRA/HR/2022/1951/096/C	Concrete	23/05/2022	<0.039	<0.24	<0.034	0.0229 ± 0.0031	0.0206 ± 0.0039	<0.033
NB6625	TRA/HR/2022/1951/097/C	Concrete	23/05/2022	<0.022	<0.15	0.04 ± 0.016	0.0226 ± 0.0026	0.0216 ± 0.0028	<0.019
NB6626	TRA/HR/2022/1951/098/C	Concrete	23/05/2022	<0.030	<0.23	<0.027	0.0241 ± 0.0031	0.0184 ± 0.0035	<0.029
NB6627	TRA/HR/2022/1601/099/C	Concrete	24/05/2022	<0.031	<0.38	<0.033	0.0206 ± 0.0036	0.0173 ± 0.0048	<0.024
NB6628	TRA/HR/2022/1602/104/C	Concrete	24/05/2022	<0.042	<0.20	<0.033	0.0226 ± 0.0032	0.017 ± 0.0035	<0.037
NB6629	TRA/HR/2022/1603/105/C	Concrete	24/05/2022	<0.039	<0.21	<0.031	0.0216 ± 0.0031	0.0212 ± 0.0036	<0.033
NB6630	TRA/HR/2022/1651/100/C	Concrete	22/06/2022	<0.026	<0.12	0.039 ± 0.014	0.0235 ± 0.0025	0.0218 ± 0.0025	<0.023
NB6631	TRA/HR/2022/1651/101/C	Concrete	22/06/2022	<0.036	<0.17	0.053 ± 0.019	0.0327 ± 0.0033	0.0312 ± 0.0039	<0.034
NB6632	TRA/HR/2022/1651/102/C	Concrete	22/06/2022	<0.026	<0.20	<0.022	0.0209 ± 0.0026	0.0173 ± 0.0034	<0.021
NB6633	TRA/HR/2022/1651/103/C	Concrete	22/06/2022	<0.049	<0.17	<0.030	0.027 ± 0.0035	0.0265 ± 0.0038	<0.041
NB6634	TRA/HR/2022/1762/111/C	Concrete	24/05/2022	<0.038	<0.23	<0.031	0.0205 ± 0.0028	0.0169 ± 0.0036	<0.032
NB6635	TRA/HR/2022/1652/106/C	Concrete	23/06/2022	<0.030	<0.21	<0.025	0.0218 ± 0.0028	0.018 ± 0.0034	<0.029
NB6636	TRA/HR/2022/1652/107/C	Concrete	23/06/2022	<0.039	<0.24	<0.033	0.022 ± 0.0031	0.02 ± 0.0038	<0.033
NB6637	TRA/HR/2022/1761/108/C	Concrete	23/05/2022	<0.023	<0.15	<0.021	0.0199 ± 0.0024	0.0179 ± 0.0027	<0.019
NB6638	TRA/HR/2022/1652/109/C	Concrete	23/06/2022	<0.033	<0.16	<0.021	0.0181 ± 0.0023	0.0179 ± 0.0028	<0.031
NB6639	TRA/HR/2022/1652/110/C	Concrete	23/06/2022	<0.028	<0.19	<0.021	0.0223 ± 0.0026	0.0214 ± 0.0034	<0.023
NB6640	TRA/HR/2022/1763/114/C	Concrete	24/05/2022	<0.044	<0.18	<0.031	0.0231 ± 0.0032	0.0216 ± 0.0034	<0.038
NB6641	TRA/HR/2022/1653/112/C	Concrete	23/06/2022	<0.039	<0.19	<0.028	0.0197 ± 0.0026	0.0183 ± 0.0033	<0.033

Table 7. Gamma spectrometry for the ^{238}U decay series (^{234}Th , $^{234\text{m}}\text{Pa}$, ^{226}Ra , ^{214}Pb , ^{214}Bi , ^{210}Pb). Note that ^{226}Ra has only one gamma ray at 186 keV and the major gamma ray from ^{235}U also occurs at 186 keV. ^{235}U can be measured by the lower abundance gamma ray at 144 keV and if a positive result for ^{235}U is reported the ^{226}Ra result will be overestimated. If ^{235}U is below the LoD there may still be a contribution to the ^{226}Ra signal from ^{235}U and the ^{226}Ra result may still be overestimated. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Uranium-238 Decay Series					
				Th-234 (Bq/g)	Pa-234m (Bq/g)	Ra-226* (Bq/g)	Pb-214 (Bq/g)	Bi-214 (Bq/g)	Pb-210 (Bq/g)
NB6642	TRA/HR/2022/1653/113/C	Concrete	23/06/2022	<0.040	<0.18	<0.026	0.0232 ± 0.0028	0.0213 ± 0.0031	<0.035
NB6643	TRA/HR/2022/1653/115/C	Concrete	23/06/2022	<0.024	<0.11	<0.018	0.0194 ± 0.0021	0.0176 ± 0.0023	<0.021
NB6644	TRA/HR/2022/1653/116/C	Concrete	23/06/2022	<0.032	<0.16	0.042 ± 0.017	0.0189 ± 0.0025	0.0155 ± 0.003	<0.030
NB6645	TRA/HR/2022/1507/117/C	Concrete	25/05/2022	<0.026	<0.20	<0.021	0.02 ± 0.0026	0.018 ± 0.0032	<0.021
NB6646	TRA/HR/2022/1507/118/C	Concrete	25/05/2022	<0.044	<0.32	<0.044	0.0202 ± 0.0049	0.0195 ± 0.0048	<0.040
NB6647	TRA/HR/2022/1508/119/C	Concrete	25/05/2022	<0.023	<0.12	<0.018	0.0214 ± 0.0023	0.0194 ± 0.0024	<0.020
NB6648	TRA/HR/2022/1508/120/C	Concrete	25/05/2022	<0.022	<0.14	<0.020	0.0213 ± 0.0024	0.0177 ± 0.0025	<0.019
NB6649	TRA/HR/2022/1509/121/C	Concrete	25/05/2022	<0.022	<0.13	<0.019	0.018 ± 0.0021	0.0158 ± 0.0024	<0.018
NB6650	TRA/HR/2022/1509/122/C	Concrete	25/05/2022	<0.029	<0.16	<0.021	0.0172 ± 0.0023	0.0173 ± 0.0029	<0.028
NB6651	TRA/HR/2022/1751/123/C	Concrete	25/05/2022	<0.027	<0.20	<0.020	0.0245 ± 0.0026	0.0201 ± 0.0033	<0.022
NB6652	TRA/HR/2022/1751/124/C	Concrete	25/05/2022	<0.040	<0.20	<0.034	0.0205 ± 0.0034	0.0194 ± 0.0036	<0.034
NB6653	TRA/HR/2022/1752/125/C	Concrete	25/05/2022	<0.040	<0.18	<0.030	0.0166 ± 0.003	0.0149 ± 0.0032	<0.034
NB6654	TRA/HR/2022/1752/126/C	Concrete	25/05/2022	<0.037	<0.20	<0.029	0.0234 ± 0.003	0.0212 ± 0.0031	<0.031
NB6655	TRA/HR/2022/1753/127/C	Concrete	25/05/2022	<0.025	<0.21	<0.029	0.021 ± 0.0029	0.0161 ± 0.0036	<0.022
NB6656	TRA/HR/2022/1753/128/C	Concrete	25/05/2022	<0.031	<0.20	<0.026	0.0219 ± 0.0029	0.0203 ± 0.0036	<0.029
NB6657	TRA/HR/2022/1610/180/C	Concrete	29/06/2022	<0.026	<0.21	<0.021	0.0213 ± 0.0026	0.0194 ± 0.0032	<0.021
NB6658	TRA/HR/2022/1610/181/C	Concrete	29/06/2022	<0.026	<0.19	<0.020	0.0217 ± 0.0025	0.0194 ± 0.0031	<0.021
NB6659	TRA/HR/2022/1610/182/C	Concrete	29/06/2022	<0.026	<0.24	<0.024	0.0219 ± 0.0029	0.0261 ± 0.0042	<0.021
NB6660	TRA/HR/2022/1610/183/C	Concrete	29/06/2022	<0.039	<0.17	<0.026	0.0212 ± 0.0026	0.0201 ± 0.0031	<0.034

Table 7. Gamma spectrometry for the ^{238}U decay series (^{234}Th , $^{234\text{m}}\text{Pa}$, ^{226}Ra , ^{214}Pb , ^{214}Bi , ^{210}Pb). Note that ^{226}Ra has only one gamma ray at 186 keV and the major gamma ray from ^{235}U also occurs at 186 keV. ^{235}U can be measured by the lower abundance gamma ray at 144 keV and if a positive result for ^{235}U is reported the ^{226}Ra result will be overestimated. If ^{235}U is below the LoD there may still be a contribution to the ^{226}Ra signal from ^{235}U and the ^{226}Ra result may still be overestimated. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Uranium-238 Decay Series					
				Th-234 (Bq/g)	Pa-234m (Bq/g)	Ra-226* (Bq/g)	Pb-214 (Bq/g)	Bi-214 (Bq/g)	Pb-210 (Bq/g)
NB6661	TRA/HR/2022/1610/184/C	Concrete	29/06/2022	<0.041	<0.18	<0.030	0.0194 ± 0.003	0.0193 ± 0.0032	<0.036
NB6662	TRA/HR/2022/1605/190/C	Concrete	26/05/2022	<0.029	<0.15	0.04 ± 0.015	0.0223 ± 0.0025	0.0175 ± 0.0027	<0.028
NB6663	TRA/HR/2022/1605/191/C	Concrete	26/05/2022	<0.025	<0.22	<0.021	0.0198 ± 0.0024	0.0189 ± 0.0033	<0.021
NB6664	TRA/HR/2022/1605/192/C	Concrete	26/05/2022	<0.039	<0.18	<0.031	0.0177 ± 0.0029	0.0155 ± 0.0032	<0.034
NB6665	TRA/HR/2022/1605/193/C	Concrete	26/05/2022	<0.040	<0.17	<0.026	0.0206 ± 0.0026	0.0191 ± 0.0029	<0.035
NB6666	TRA/HR/2022/1605/195/C	Concrete	26/05/2022	<0.039	<0.16	<0.025	0.0187 ± 0.0025	0.0156 ± 0.0027	<0.034
NB6667	TRA/HR/2022/1605/196/C	Concrete	26/05/2022	<0.021	<0.14	<0.020	0.019 ± 0.0023	0.0155 ± 0.0026	<0.018
NB6668	TRA/HR/2022/1605/197/C	Concrete	26/05/2022	<0.029	<0.16	<0.021	0.0175 ± 0.0023	0.0163 ± 0.0027	<0.027
NB6669	TRA/HR/2022/1605/198/C	Concrete	26/05/2022	<0.025	<0.21	<0.021	0.017 ± 0.0023	0.0159 ± 0.003	<0.020
NB6670	TRA/HR/2022/1605/201/C	Concrete	01/06/2022	<0.045	<0.22	<0.040	0.0232 ± 0.0037	0.024 ± 0.0044	<0.040
NB6671	TRA/HR/2022/1605/203/C	Concrete	01/06/2022	<0.033	<0.16	<0.021	0.0235 ± 0.0026	0.0221 ± 0.003	<0.031
NB6672	TRA/HR/2022/1605/204/C	Concrete	01/06/2022	<0.029	<0.20	<0.025	0.019 ± 0.0028	0.0169 ± 0.0036	<0.028
NB6673	TRA/HR/2022/1605/205/C	Concrete	01/06/2022	<0.041	<0.16	0.056 ± 0.022	0.0209 ± 0.0027	0.0206 ± 0.0029	<0.037
NB6674	TRA/HR/2022/1605/206/C	Concrete	01/06/2022	<0.045	<0.15	<0.027	0.0197 ± 0.0028	0.0194 ± 0.003	<0.037
NB6675	TRA/HR/2022/1605/209/C	Concrete	01/06/2022	<0.025	<0.24	<0.023	0.0164 ± 0.0026	0.0152 ± 0.0039	<0.020
NB6676	TRA/HR/2022/1771/211/C	Concrete	08/06/2022	<0.037	<0.21	<0.030	0.0217 ± 0.0029	0.0223 ± 0.0035	<0.030
NB6677	TRA/HR/2022/1771/212/C	Concrete	08/06/2022	<0.037	<0.18	<0.027	0.0231 ± 0.0028	0.0207 ± 0.0035	<0.032
NB6678	TRA/HR/2022/1754/213/C	Concrete	08/06/2022	<0.037	<0.19	<0.028	0.0198 ± 0.0027	0.0179 ± 0.0031	<0.031
NB6679	TRA/HR/2022/1754/215/C	Concrete	08/06/2022	<0.038	<0.21	<0.030	0.0219 ± 0.003	0.0227 ± 0.0033	<0.032

Table 7. Gamma spectrometry for the ^{238}U decay series (^{234}Th , $^{234\text{m}}\text{Pa}$, ^{226}Ra , ^{214}Pb , ^{214}Bi , ^{210}Pb). Note that ^{226}Ra has only one gamma ray at 186 keV and the major gamma ray from ^{235}U also occurs at 186 keV. ^{235}U can be measured by the lower abundance gamma ray at 144 keV and if a positive result for ^{235}U is reported the ^{226}Ra result will be overestimated. If ^{235}U is below the LoD there may still be a contribution to the ^{226}Ra signal from ^{235}U and the ^{226}Ra result may still be overestimated. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Uranium-238 Decay Series					
				Th-234 (Bq/g)	Pa-234m (Bq/g)	Ra-226* (Bq/g)	Pb-214 (Bq/g)	Bi-214 (Bq/g)	Pb-210 (Bq/g)
NB6680	TRA/HR/2022/1771/218/C	Concrete	08/06/2022	<0.039	<0.18	<0.028	0.0218 ± 0.0029	0.0212 ± 0.0032	<0.033
NB6681	TRA/HR/2022/1755/219/C	Concrete	09/06/2022	<0.040	<0.24	<0.033	0.0232 ± 0.0031	0.02 ± 0.004	<0.033
NB6682	TRA/HR/2022/1771/220/C	Concrete	09/06/2022	<0.041	<0.15	<0.027	0.0173 ± 0.0026	0.0188 ± 0.0029	<0.037
NB6683	TRA/HR/2022/1771/221/C	Concrete	09/06/2022	<0.046	<0.15	<0.027	0.0196 ± 0.0026	0.0199 ± 0.0028	<0.038
NB6684	TRA/HR/2022/1771/223/C	Concrete	09/06/2022	<0.022	<0.14	<0.020	0.021 ± 0.0023	0.0185 ± 0.0027	<0.019
NB6685	TRA/HR/2022/1771/226/C	Concrete	09/06/2022	<0.027	<0.22	<0.031	0.0228 ± 0.0032	0.0203 ± 0.0038	<0.023
NB6686	TRA/HR/2022/1755/227/C	Concrete	09/06/2022	<0.022	<0.15	<0.021	0.0199 ± 0.0024	0.0168 ± 0.0028	<0.019
NB7034	TRA/HR/2022/2E91/001/F	Roofing felt	07/07/2022	<0.093	<1.2	<0.14	<0.019	<0.022	<0.11
NB7035	TRA/HR/2022/2E91/003/F	Roofing felt	07/07/2022	<0.071	<0.88	<0.10	<0.013	<0.016	<0.080
NB7036	TRA/HR/2022/2E91/004/F	Roofing felt	07/07/2022	<0.062	<0.90	<0.095	<0.013	<0.016	<0.054
NB7037	TRA/HR/2022/2E91/005/F	Roofing felt	07/07/2022	<0.046	<0.51	<0.072	<0.0083	<0.0096	<0.046
NB7038	TRA/HR/2022/2E91/007/F	Roofing felt	07/07/2022	<0.089	<1.2	<0.14	<0.018	<0.020	<0.10
NB7039	TRA/HR/2022/2E91/008/F	Roofing felt	07/07/2022	<0.037	<0.40	<0.061	<0.0071	<0.0079	0.086 ± 0.036
NB7040	TRA/HR/2022/2E91/009/F	Roofing felt	07/07/2022	<0.039	<0.41	<0.063	<0.0072	<0.0082	0.086 ± 0.036
NB7041	TRA/HR/2022/2E91/011/F	Roofing felt	07/07/2022	<0.044	<0.53	<0.076	<0.0090	<0.0096	<0.042
NB7042	TRA/HR/2022/2E91/013/F	Roofing felt	07/07/2022	<0.051	<0.72	<0.072	<0.0097	<0.012	<0.045
NB7043	TRA/HR/2022/2E91/014/F	Roofing felt	07/07/2022	<0.053	<0.60	<0.086	<0.0099	<0.011	<0.049
NB7044	TRA/HR/2022/2E91/015/F	Roofing felt	07/07/2022	<0.059	<0.71	<0.083	<0.011	<0.014	<0.063
NB7045	TRA/HR/2022/2E91/016/F	Roofing felt	07/07/2022	<0.068	<1.1	<0.11	<0.014	<0.018	<0.057

Table 7. Gamma spectrometry for the ^{238}U decay series (^{234}Th , $^{234\text{m}}\text{Pa}$, ^{226}Ra , ^{214}Pb , ^{214}Bi , ^{210}Pb). Note that ^{226}Ra has only one gamma ray at 186 keV and the major gamma ray from ^{235}U also occurs at 186 keV. ^{235}U can be measured by the lower abundance gamma ray at 144 keV and if a positive result for ^{235}U is reported the ^{226}Ra result will be overestimated. If ^{235}U is below the LoD there may still be a contribution to the ^{226}Ra signal from ^{235}U and the ^{226}Ra result may still be overestimated. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Uranium-238 Decay Series					
				Th-234 (Bq/g)	Pa-234m (Bq/g)	Ra-226* (Bq/g)	Pb-214 (Bq/g)	Bi-214 (Bq/g)	Pb-210 (Bq/g)
NB7046	TRA/HR/2022/2E91/018/F	Roofing felt	07/07/2022	<0.14	<1.2	<0.19	<0.023	<0.024	<0.14
NB7047	TRA/HR/2022/2E91/019/F	Roofing felt	07/07/2022	<0.092	<0.72	<0.12	<0.015	<0.016	<0.091
NB7048	TRA/HR/2022/2E91/020/F	Roofing felt	07/07/2022	<0.065	<0.77	<0.11	<0.013	<0.015	<0.065
NB7049	TRA/HR/2022/2610/136/P	Paint (flakes)	27/07/2022	<0.28	<3.7	<0.40	<0.055	<0.064	<0.25
NB7050	TRA/HR/2022/2610/139/P	Paint (flakes)	27/07/2022	<0.22	<3.4	<0.32	<0.045	<0.056	<0.17
NB7051	TRA/HR/2022/2610/142/P	Paint (flakes)	27/07/2022	<0.47	<4.5	<0.63	<0.083	<0.090	<0.41
NB7052	TRA/HR/2022/2610/144/P	Paint (flakes)	27/07/2022	<0.23	<2.9	<0.40	<0.046	<0.056	<0.20
NB7053	TRA/HR/2022/2610/146/P	Paint (flakes)	27/07/2022	<0.28	<3.6	<0.48	<0.053	<0.066	<0.24
NB7054	TRA/HR/2022/2610/149/P	Paint (flakes)	27/07/2022	<0.24	<3.3	<0.37	<0.049	<0.060	<0.23
NB7055	TRA/HR/2022/2610/152/P	Paint (flakes)	27/07/2022	<0.37	<6.0	<0.54	<0.074	<0.088	<0.27
NB7056	TRA/HR/2022/2610/154/P	Paint (flakes)	27/07/2022	<0.47	<4.3	<0.62	<0.079	<0.085	<0.41
NB7057	TRA/HR/2022/2610/158/P	Paint (flakes)	27/07/2022	<0.35	<5.3	<0.53	<0.071	<0.088	<0.33
NB7058	TRA/HR/2022/2610/161/P	Paint (flakes)	27/07/2022	<0.29	<3.5	<0.51	<0.057	<0.069	<0.24
NB7059	TRA/HR/2022/2610/163/P	Paint (flakes)	27/07/2022	<0.23	<3.1	<0.39	<0.047	<0.052	<0.20
NB7060	TRA/HR/2022/2610/166/P	Paint (flakes)	27/07/2022	<0.42	<6.2	<0.64	<0.084	<0.11	<0.41
NB7061	TRA/HR/2022/2610/169/P	Paint (flakes)	27/07/2022	<0.43	<5.5	<0.63	<0.090	<0.11	<0.41
NB7062	TRA/HR/2022/2670/171/P	Paint (flakes)	28/07/2022	<0.43	<6.2	<0.64	<0.086	<0.11	<0.40
NB7063	TRA/HR/2022/2670/173/P	Paint (flakes)	28/07/2022	<0.45	<6.4	<0.67	<0.091	<0.11	<0.43
NB7064	TRA/HR/2022/2670/175/P	Paint (flakes)	28/07/2022	<0.60	<9.7	<0.89	<0.12	<0.16	<0.46

Table 7. Gamma spectrometry for the ^{238}U decay series (^{234}Th , $^{234\text{m}}\text{Pa}$, ^{226}Ra , ^{214}Pb , ^{214}Bi , ^{210}Pb). Note that ^{226}Ra has only one gamma ray at 186 keV and the major gamma ray from ^{235}U also occurs at 186 keV. ^{235}U can be measured by the lower abundance gamma ray at 144 keV and if a positive result for ^{235}U is reported the ^{226}Ra result will be overestimated. If ^{235}U is below the LoD there may still be a contribution to the ^{226}Ra signal from ^{235}U and the ^{226}Ra result may still be overestimated. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Uranium-238 Decay Series					
				Th-234 (Bq/g)	Pa-234m (Bq/g)	Ra-226* (Bq/g)	Pb-214 (Bq/g)	Bi-214 (Bq/g)	Pb-210 (Bq/g)
NB7065	TRA/HR/2022/2670/176/P	Paint (flakes)	28/07/2022	<0.90	<16	<1.4	<0.18	<0.24	<0.66
NB7066	TRA/HR/2022/2670/177/P	Paint (flakes)	28/07/2022	<0.58	<8.9	<0.87	<0.12	<0.15	<0.42
NB7067	TRA/HR/2022/2670/178/P	Paint (flakes)	28/07/2022	<0.53	<7.8	<0.77	<0.11	<0.14	<0.40
NB7068	TRA/HR/2022/2670/179/P	Paint (flakes)	28/07/2022	<1.4	<13	<1.9	<0.23	<0.25	<1.2
NB7069	TRA/HR/2022/2652/132/M	Metal	04/07/2022	<0.039	<0.33	<0.045	<0.0057	<0.0063	<0.036
NB7070	TRA/HR/2022/2652/134/M	Metal	04/07/2022	<0.12	<1.1	<0.17	<0.021	<0.022	<0.12
NB7071	TRA/HR/2022/2E91/022/C	Concrete	07/07/2022	<0.041	<0.16	<0.028	0.0187 ± 0.0028	0.0184 ± 0.003	<0.036
NB7072	TRA/HR/2022/2E91/024/C	Concrete	07/07/2022	<0.043	<0.18	<0.032	0.0195 ± 0.0032	0.02 ± 0.0035	<0.038
NB7073	TRA/HR/2022/2E91/027/C	Concrete	07/07/2022	<0.024	<0.13	<0.020	0.0225 ± 0.0024	0.021 ± 0.0026	<0.021
NB7074	TRA/HR/2022/2E91/028/C	Concrete	07/07/2022	<0.024	<0.12	0.038 ± 0.015	0.0217 ± 0.0023	0.019 ± 0.0025	<0.021
NB7075	TRA/HR/2022/2E91/030/C	Concrete	07/07/2022	<0.024	<0.11	<0.018	0.0187 ± 0.0021	0.0162 ± 0.0021	<0.022
NB7076	TRA/HR/2022/2E91/033/C	Concrete	07/07/2022	<0.027	<0.19	<0.020	0.0181 ± 0.0023	0.0178 ± 0.0031	<0.022
NB7077	TRA/HR/2022/2E91/034/C	Concrete	07/07/2022	<0.027	<0.19	0.039 ± 0.014	0.0223 ± 0.0026	0.0206 ± 0.0031	<0.022
NB7078	TRA/HR/2022/2E91/036/C	Concrete	07/07/2022	<0.026	<0.20	<0.021	0.0195 ± 0.0024	0.02 ± 0.0037	<0.022
NB7079	TRA/HR/2022/2E91/037/C	Concrete	07/07/2022	<0.027	<0.20	<0.020	0.021 ± 0.0026	0.0206 ± 0.0036	<0.022
NB7080	TRA/HR/2022/2E91/039/C	Concrete	07/07/2022	<0.025	<0.19	<0.024	0.0212 ± 0.0027	0.0192 ± 0.0034	<0.023
NB7081	TRA/HR/2022/2970/041/C	Concrete	12/07/2022	<0.054	<0.37	<0.056	0.0552 ± 0.0061	0.0497 ± 0.0069	<0.044
NB7082	TRA/HR/2022/2970/043/C	Concrete	12/07/2022	<0.024	<0.20	<0.028	0.0188 ± 0.0029	0.0158 ± 0.0036	<0.021
NB7083	TRA/HR/2022/2970/044/C	Concrete	12/07/2022	<0.034	<0.33	<0.038	0.0199 ± 0.0038	0.0183 ± 0.0049	<0.034

Table 7. Gamma spectrometry for the ^{238}U decay series (^{234}Th , $^{234\text{m}}\text{Pa}$, ^{226}Ra , ^{214}Pb , ^{214}Bi , ^{210}Pb). Note that ^{226}Ra has only one gamma ray at 186 keV and the major gamma ray from ^{235}U also occurs at 186 keV. ^{235}U can be measured by the lower abundance gamma ray at 144 keV and if a positive result for ^{235}U is reported the ^{226}Ra result will be overestimated. If ^{235}U is below the LoD there may still be a contribution to the ^{226}Ra signal from ^{235}U and the ^{226}Ra result may still be overestimated. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Uranium-238 Decay Series					
				Th-234 (Bq/g)	Pa-234m (Bq/g)	Ra-226* (Bq/g)	Pb-214 (Bq/g)	Bi-214 (Bq/g)	Pb-210 (Bq/g)
NB7084	TRA/HR/2022/2970/045/C	Concrete	12/07/2022	<0.035	<0.47	<0.042	0.0162 ± 0.0039	0.0146 ± 0.0055	<0.027
NB7085	TRA/HR/2022/2970/047/C	Concrete	12/07/2022	<0.042	<0.20	<0.034	0.0233 ± 0.0034	0.0238 ± 0.004	<0.035
NB7086	TRA/HR/2022/2970/048/C	Concrete	12/07/2022	<0.047	<0.34	<0.047	0.0208 ± 0.0039	0.0215 ± 0.0051	<0.039
NB7087	TRA/HR/2022/2970/049/C	Concrete	12/07/2022	<0.025	<0.14	0.058 ± 0.017	0.0337 ± 0.0033	0.0292 ± 0.0033	<0.021
NB7088	TRA/HR/2022/2970/050/C	Concrete	12/07/2022	<0.033	<0.32	<0.036	0.0218 ± 0.0036	0.0205 ± 0.0047	<0.032
NB7089	TRA/HR/2022/2970/051/C	Concrete	12/07/2022	<0.031	<0.32	0.063 ± 0.023	0.029 ± 0.0038	0.0273 ± 0.0051	<0.023
NB7090	TRA/HR/2022/2970/052/C	Concrete	12/07/2022	<0.048	<0.31	<0.045	0.0235 ± 0.0044	0.0208 ± 0.005	<0.042
NB7091	TRA/HR/2022/2970/053/C	Concrete	12/07/2022	<0.043	<0.23	0.085 ± 0.025	0.0476 ± 0.0047	0.0461 ± 0.0052	<0.036
NB7092	TRA/HR/2022/2970/054/C	Concrete	12/07/2022	<0.029	<0.26	<0.037	0.0269 ± 0.0037	0.022 ± 0.0048	<0.026
NB7093	TRA/HR/2022/2970/055/C	Concrete	12/07/2022	<0.033	<0.17	<0.023	0.0223 ± 0.0027	0.0189 ± 0.0032	<0.031
NB7094	TRA/HR/2022/2970/058/C	Concrete	12/07/2022	<0.025	<0.21	0.048 ± 0.016	0.0217 ± 0.0025	0.0206 ± 0.0034	<0.021
NB7095	TRA/HR/2022/2970/059/C	Concrete	12/07/2022	<0.045	<0.15	<0.026	0.0186 ± 0.0026	0.0164 ± 0.0028	<0.037
NB7096	TRA/HR/2022/2970/061/C	Concrete	19/07/2022	<0.049	<0.52	<0.050	0.0203 ± 0.0042	0.0179 ± 0.0057	<0.042
NB7097	TRA/HR/2022/2970/062/C	Concrete	19/07/2022	<0.026	<0.26	<0.026	0.0217 ± 0.0027	0.0198 ± 0.0034	<0.023
NB7098	TRA/HR/2022/2970/063/C	Concrete	19/07/2022	<0.028	<0.18	<0.022	0.0165 ± 0.0024	0.0147 ± 0.0028	<0.027
NB7099	TRA/HR/2022/2970/064/C	Concrete	19/07/2022	<0.026	<0.20	0.041 ± 0.015	0.0211 ± 0.0025	0.0209 ± 0.0032	<0.021
NB7100	TRA/HR/2022/2960/065/C	Concrete	26/07/2022	<0.048	<0.35	<0.052	0.0223 ± 0.0057	0.0182 ± 0.0055	<0.044
NB7101	TRA/HR/2022/2960/067/C	Concrete	26/07/2022	<0.039	<0.24	<0.032	0.0231 ± 0.003	0.02 ± 0.0035	<0.032
NB7102	TRA/HR/2022/2960/068/C	Concrete	26/07/2022	<0.023	<0.15	<0.022	0.0183 ± 0.0024	0.017 ± 0.0029	<0.019

Table 7. Gamma spectrometry for the ^{238}U decay series (^{234}Th , $^{234\text{m}}\text{Pa}$, ^{226}Ra , ^{214}Pb , ^{214}Bi , ^{210}Pb). Note that ^{226}Ra has only one gamma ray at 186 keV and the major gamma ray from ^{235}U also occurs at 186 keV. ^{235}U can be measured by the lower abundance gamma ray at 144 keV and if a positive result for ^{235}U is reported the ^{226}Ra result will be overestimated. If ^{235}U is below the LoD there may still be a contribution to the ^{226}Ra signal from ^{235}U and the ^{226}Ra result may still be overestimated. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Uranium-238 Decay Series					
				Th-234 (Bq/g)	Pa-234m (Bq/g)	Ra-226* (Bq/g)	Pb-214 (Bq/g)	Bi-214 (Bq/g)	Pb-210 (Bq/g)
NB7103	TRA/HR/2022/2960/070/C	Concrete	26/07/2022	<0.035	<0.34	<0.038	0.028 ± 0.0043	0.0238 ± 0.0056	<0.033
NB7104	TRA/HR/2022/2960/071/C	Concrete	26/07/2022	<0.032	<0.40	<0.038	0.0283 ± 0.0041	0.0278 ± 0.0062	<0.026
NB7105	TRA/HR/2022/2960/072/C	Concrete	26/07/2022	<0.044	<0.25	<0.040	0.0244 ± 0.0039	0.0231 ± 0.0044	<0.038
NB7106	TRA/HR/2022/2960/073/C	Concrete	26/07/2022	<0.039	<0.21	<0.030	0.0267 ± 0.0031	0.0245 ± 0.0035	<0.033
NB7107	TRA/HR/2022/2960/074/C	Concrete	26/07/2022	<0.026	<0.14	<0.022	0.0264 ± 0.0027	0.0243 ± 0.0029	<0.023
NB7108	TRA/HR/2022/2960/075/C	Concrete	26/07/2022	<0.031	<0.18	<0.025	0.0258 ± 0.003	0.0248 ± 0.0038	<0.029
NB7109	TRA/HR/2022/2960/076/C	Concrete	26/07/2022	<0.026	<0.25	<0.025	0.019 ± 0.0027	0.0174 ± 0.0035	<0.021
NB7110	TRA/HR/2022/2960/077/C	Concrete	26/07/2022	<0.041	<0.21	<0.033	0.0218 ± 0.0033	0.0216 ± 0.004	<0.035
NB7111	TRA/HR/2022/2960/079/C	Concrete	26/07/2022	<0.038	<0.23	<0.032	0.0188 ± 0.0029	0.016 ± 0.0034	<0.032
NB7112	TRA/HR/2022/2960/082/C	Concrete	26/07/2022	<0.022	<0.16	<0.023	0.0179 ± 0.0024	0.0142 ± 0.0027	<0.019
NB7113	TRA/HR/2022/2960/083/C	Concrete	26/07/2022	<0.035	<0.33	<0.039	0.0221 ± 0.0037	0.02 ± 0.0049	<0.034
NB7114	TRA/HR/2022/2960/084/C	Concrete	26/07/2022	<0.028	<0.31	<0.029	0.0237 ± 0.0033	0.0216 ± 0.0046	<0.023
NB7115	TRA/HR/2022/2960/085/C	Concrete	26/07/2022	<0.043	<0.18	<0.031	0.0208 ± 0.0031	0.0207 ± 0.0032	<0.039
NB7116	TRA/HR/2022/2960/086/C	Concrete	26/07/2022	<0.039	<0.24	<0.032	0.0227 ± 0.0031	0.0198 ± 0.0038	<0.033
NB7117	TRA/HR/2022/2960/087/C	Concrete	26/07/2022	<0.023	<0.14	0.04 ± 0.016	0.0198 ± 0.0023	0.0191 ± 0.0026	<0.020
NB7118	TRA/HR/2022/2960/088/C	Concrete	26/07/2022	<0.032	<0.18	<0.023	0.0225 ± 0.0026	0.0219 ± 0.0032	<0.030
NB7119	TRA/HR/2022/2901/089/C	Concrete	05/07/2022	<0.026	<0.21	<0.021	0.0222 ± 0.0026	0.019 ± 0.0033	<0.021
NB7120	TRA/HR/2022/2901/090/C	Concrete	05/07/2022	<0.037	<0.19	<0.032	0.0168 ± 0.0029	0.0153 ± 0.0034	<0.032
NB7121	TRA/HR/2022/2901/091/C	Concrete	05/07/2022	<0.040	<0.17	<0.025	0.019 ± 0.0025	0.0201 ± 0.003	<0.034

Table 7. Gamma spectrometry for the ^{238}U decay series (^{234}Th , $^{234\text{m}}\text{Pa}$, ^{226}Ra , ^{214}Pb , ^{214}Bi , ^{210}Pb). Note that ^{226}Ra has only one gamma ray at 186 keV and the major gamma ray from ^{235}U also occurs at 186 keV. ^{235}U can be measured by the lower abundance gamma ray at 144 keV and if a positive result for ^{235}U is reported the ^{226}Ra result will be overestimated. If ^{235}U is below the LoD there may still be a contribution to the ^{226}Ra signal from ^{235}U and the ^{226}Ra result may still be overestimated. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Uranium-238 Decay Series					
				Th-234 (Bq/g)	Pa-234m (Bq/g)	Ra-226* (Bq/g)	Pb-214 (Bq/g)	Bi-214 (Bq/g)	Pb-210 (Bq/g)
NB7122	TRA/HR/2022/2901/092/C	Concrete	05/07/2022	<0.023	<0.11	<0.019	0.0201 ± 0.0022	0.0197 ± 0.0025	<0.021
NB7123	TRA/HR/2022/2901/093/C	Concrete	05/07/2022	<0.030	<0.18	<0.022	0.0186 ± 0.0025	0.0166 ± 0.003	<0.029
NB7124	TRA/HR/2022/2951/094/C	Concrete	05/07/2022	<0.026	<0.21	<0.022	0.0214 ± 0.0027	0.0205 ± 0.0036	<0.021
NB7125	TRA/HR/2022/2951/095/C	Concrete	05/07/2022	<0.044	<0.16	<0.028	0.0165 ± 0.0026	0.0169 ± 0.0031	<0.036
NB7126	TRA/HR/2022/2951/096/C	Concrete	05/07/2022	<0.044	<0.17	<0.026	0.0193 ± 0.0025	0.0194 ± 0.0031	<0.039
NB7127	TRA/HR/2022/2951/097/C	Concrete	05/07/2022	<0.022	<0.12	<0.020	0.0193 ± 0.0022	0.0191 ± 0.0025	<0.019
NB7128	TRA/HR/2022/2951/098/C	Concrete	05/07/2022	<0.031	<0.22	0.052 ± 0.021	0.021 ± 0.0028	0.02 ± 0.0034	<0.029
NB7129	TRA/HR/2022/2601/099/C	Concrete	21/07/2022	<0.027	<0.18	<0.020	0.0206 ± 0.0024	0.0188 ± 0.0032	<0.023
NB7130	TRA/HR/2022/2651/104/C	Concrete	25/07/2022	<0.042	<0.18	<0.031	0.0188 ± 0.003	0.0211 ± 0.0035	<0.038
NB7131	TRA/HR/2022/2651/105/C	Concrete	25/07/2022	<0.049	<0.38	<0.049	0.0294 ± 0.0045	0.0252 ± 0.0055	<0.039
NB7132	TRA/HR/2022/2602/100/C	Concrete	21/07/2022	<0.025	<0.11	0.035 ± 0.013	0.0231 ± 0.0023	0.0189 ± 0.0023	<0.022
NB7133	TRA/HR/2022/2603/101/C	Concrete	21/07/2022	<0.032	<0.15	<0.021	0.0176 ± 0.0023	0.0175 ± 0.0028	<0.031
NB7134	TRA/HR/2022/2651/102/C	Concrete	25/07/2022	<0.025	<0.22	<0.022	0.0184 ± 0.0026	0.0169 ± 0.0034	<0.020
NB7135	TRA/HR/2022/2651/103/C	Concrete	25/07/2022	<0.038	<0.23	<0.031	0.0203 ± 0.0027	0.0192 ± 0.0037	<0.032
NB7136	TRA/HR/2022/2652/111/C	Concrete	25/07/2022	<0.023	<0.11	0.039 ± 0.013	0.0221 ± 0.0021	0.019 ± 0.0022	<0.021
NB7137	TRA/HR/2022/2651/106/C	Concrete	25/07/2022	<0.030	<0.17	<0.020	0.0167 ± 0.002	0.0152 ± 0.0026	<0.029
NB7138	TRA/HR/2022/2652/107/C	Concrete	23/06/2022	<0.025	<0.22	0.046 ± 0.017	0.0223 ± 0.0024	0.0214 ± 0.0032	<0.021
NB7139	TRA/HR/2022/2652/108/C	Concrete	25/07/2022	<0.039	<0.18	<0.030	0.0198 ± 0.0029	0.017 ± 0.003	<0.033
NB7140	TRA/HR/2022/2652/109/C	Concrete	25/07/2022	<0.039	<0.26	<0.034	0.0181 ± 0.0027	0.0172 ± 0.0035	<0.033

Table 7. Gamma spectrometry for the ^{238}U decay series (^{234}Th , $^{234\text{m}}\text{Pa}$, ^{226}Ra , ^{214}Pb , ^{214}Bi , ^{210}Pb). Note that ^{226}Ra has only one gamma ray at 186 keV and the major gamma ray from ^{235}U also occurs at 186 keV. ^{235}U can be measured by the lower abundance gamma ray at 144 keV and if a positive result for ^{235}U is reported the ^{226}Ra result will be overestimated. If ^{235}U is below the LoD there may still be a contribution to the ^{226}Ra signal from ^{235}U and the ^{226}Ra result may still be overestimated. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Uranium-238 Decay Series					
				Th-234 (Bq/g)	Pa-234m (Bq/g)	Ra-226* (Bq/g)	Pb-214 (Bq/g)	Bi-214 (Bq/g)	Pb-210 (Bq/g)
NB7141	TRA/HR/2022/2652/110/C	Concrete	25/07/2022	<0.020	<0.14	<0.020	0.0175 ± 0.0021	0.0164 ± 0.0023	<0.019
NB7142	TRA/HR/2022/2653/114/C	Concrete	25/07/2022	<0.034	<0.30	<0.034	0.0161 ± 0.0032	0.0155 ± 0.0041	<0.032
NB7143	TRA/HR/2022/2653/112/C	Concrete	25/07/2022	<0.025	<0.20	0.043 ± 0.015	0.0206 ± 0.0023	0.017 ± 0.0031	<0.021
NB7144	TRA/HR/2022/2653/113/C	Concrete	25/07/2022	<0.039	<0.19	<0.031	0.0199 ± 0.0028	0.0192 ± 0.0035	<0.034
NB7145	TRA/HR/2022/2653/115/C	Concrete	25/07/2022	<0.022	<0.15	<0.021	0.0187 ± 0.002	0.0171 ± 0.0025	<0.019
NB7146	TRA/HR/2022/2653/116/C	Concrete	25/07/2022	<0.032	<0.16	0.044 ± 0.016	0.0209 ± 0.0022	0.0209 ± 0.0028	<0.030
NB7147	TRA/HR/2022/2507/117/C	Concrete	20/07/2022	<0.027	<0.18	0.043 ± 0.015	0.0197 ± 0.0022	0.0184 ± 0.003	<0.022
NB7148	TRA/HR/2022/2507/118/C	Concrete	20/07/2022	<0.044	<0.28	<0.044	0.0215 ± 0.0038	0.0187 ± 0.0048	<0.039
NB7149	TRA/HR/2022/2508/119/C	Concrete	20/07/2022	<0.025	<0.11	<0.017	0.0204 ± 0.0019	0.0184 ± 0.002	<0.022
NB7150	TRA/HR/2022/2508/120/C	Concrete	20/07/2022	<0.029	<0.20	<0.023	0.018 ± 0.0025	0.0183 ± 0.0031	<0.027
NB7151	TRA/HR/2022/2509/121/C	Concrete	20/07/2022	<0.028	<0.34	<0.030	0.0207 ± 0.0031	0.0203 ± 0.0048	<0.023
NB7152	TRA/HR/2022/2509/122/C	Concrete	20/07/2022	<0.042	<0.28	<0.042	0.0206 ± 0.0039	0.0201 ± 0.0044	<0.038
NB7153	TRA/HR/2022/2751/123/C	Concrete	21/07/2022	<0.026	<0.23	<0.031	0.0237 ± 0.003	0.0192 ± 0.0038	<0.024
NB7154	TRA/HR/2022/2751/124/C	Concrete	21/07/2022	<0.032	<0.19	<0.024	0.018 ± 0.0025	0.0205 ± 0.0031	<0.030
NB7155	TRA/HR/2022/2752/125/C	Concrete	21/07/2022	<0.043	<0.19	0.056 ± 0.022	0.0227 ± 0.0027	0.0193 ± 0.0032	<0.037
NB7156	TRA/HR/2022/2752/126/C	Concrete	21/07/2022	<0.022	<0.14	0.041 ± 0.015	0.0199 ± 0.002	0.0192 ± 0.0026	<0.019
NB7157	TRA/HR/2022/2753/127/C	Concrete	21/07/2022	<0.033	<0.17	<0.023	0.0221 ± 0.0024	0.0184 ± 0.0028	<0.031
NB7158	TRA/HR/2022/2753/128/C	Concrete	21/07/2022	<0.030	<0.36	<0.032	0.0228 ± 0.0035	0.0157 ± 0.0046	<0.024
NB7159	TRA/HR/2022/2670/180/C	Concrete	28/07/2022	<0.041	<0.16	<0.024	0.0179 ± 0.0021	0.0165 ± 0.0027	<0.034

Table 7. Gamma spectrometry for the ^{238}U decay series (^{234}Th , $^{234\text{m}}\text{Pa}$, ^{226}Ra , ^{214}Pb , ^{214}Bi , ^{210}Pb). Note that ^{226}Ra has only one gamma ray at 186 keV and the major gamma ray from ^{235}U also occurs at 186 keV. ^{235}U can be measured by the lower abundance gamma ray at 144 keV and if a positive result for ^{235}U is reported the ^{226}Ra result will be overestimated. If ^{235}U is below the LoD there may still be a contribution to the ^{226}Ra signal from ^{235}U and the ^{226}Ra result may still be overestimated. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Uranium-238 Decay Series					
				Th-234 (Bq/g)	Pa-234m (Bq/g)	Ra-226* (Bq/g)	Pb-214 (Bq/g)	Bi-214 (Bq/g)	Pb-210 (Bq/g)
NB7160	TRA/HR/2022/2610/181/C	Concrete	28/07/2022	<0.048	<0.16	0.058 ± 0.022	0.0346 ± 0.0031	0.032 ± 0.0033	<0.039
NB7161	TRA/HR/2022/2610/182/C	Concrete	28/07/2022	<0.040	<0.19	<0.027	0.0203 ± 0.0025	0.0194 ± 0.0032	<0.033
NB7162	TRA/HR/2022/2610/183/C	Concrete	28/07/2022	<0.024	<0.12	0.037 ± 0.013	0.0207 ± 0.0021	0.0212 ± 0.0023	<0.021
NB7163	TRA/HR/2022/2610/184/C	Concrete	28/07/2022	<0.034	<0.15	<0.020	0.0178 ± 0.0019	0.0165 ± 0.0025	<0.032
NB7164	TRA/HR/2022/2605/190/C	Concrete	26/05/2022	<0.027	<0.17	<0.019	0.0188 ± 0.0021	0.0169 ± 0.0029	<0.022
NB7165	TRA/HR/2022/2605/191/C	Concrete	26/05/2022	<0.039	<0.18	<0.030	0.0226 ± 0.0029	0.0194 ± 0.0035	<0.033
NB7166	TRA/HR/2022/2605/194/C	Concrete	26/05/2022	<0.037	<0.22	<0.029	0.0146 ± 0.0025	0.016 ± 0.0034	<0.030
NB7167	TRA/HR/2022/2605/195/C	Concrete	26/05/2022	<0.027	<0.17	0.04 ± 0.014	0.0212 ± 0.0021	0.0189 ± 0.0027	<0.022
NB7168	TRA/HR/2022/2605/196/C	Concrete	26/05/2022	<0.035	<0.16	<0.022	0.0208 ± 0.0023	0.0198 ± 0.0026	<0.032
NB7169	TRA/HR/2022/2605/198/C	Concrete	26/05/2022	<0.030	<0.18	<0.020	0.0244 ± 0.0023	0.0243 ± 0.003	<0.024
NB7170	TRA/HR/2022/2605/201/C	Concrete	01/06/2022	<0.041	<0.17	<0.029	0.02 ± 0.0026	0.0174 ± 0.0029	<0.036
NB7171	TRA/HR/2022/2605/203/C	Concrete	01/06/2022	<0.024	<0.13	0.038 ± 0.013	0.0191 ± 0.002	0.0177 ± 0.0021	<0.021
NB7172	TRA/HR/2022/2605/204/C	Concrete	01/06/2022	<0.022	<0.11	0.036 ± 0.013	0.0171 ± 0.0018	0.0153 ± 0.002	<0.020
NB7173	TRA/HR/2022/2605/205/C	Concrete	01/06/2022	<0.031	<0.35	<0.033	0.0211 ± 0.0035	0.025 ± 0.0051	<0.025
NB7174	TRA/HR/2022/2605/206/C	Concrete	01/06/2022	<0.027	<0.19	0.044 ± 0.016	0.0221 ± 0.0023	0.02 ± 0.0032	<0.022
NB7175	TRA/HR/2022/2514/208/C	Concrete	01/06/2022	<0.026	<0.23	<0.031	0.0203 ± 0.003	0.0185 ± 0.0039	<0.024
NB7176	TRA/HR/2022/2512/209/C	Concrete	01/06/2022	<0.035	<0.32	<0.036	0.0249 ± 0.0036	0.0217 ± 0.0047	<0.032
NB7177	TRA/HR/2022/2771/211/C	Concrete	08/06/2022	<0.036	<0.17	<0.022	0.0212 ± 0.0024	0.0203 ± 0.0029	<0.034
NB7178	TRA/HR/2022/2771/213/C	Concrete	08/06/2022	<0.051	<0.17	<0.030	0.0253 ± 0.003	0.0237 ± 0.0031	<0.043

Table 7. Gamma spectrometry for the ^{238}U decay series (^{234}Th , $^{234\text{m}}\text{Pa}$, ^{226}Ra , ^{214}Pb , ^{214}Bi , ^{210}Pb). Note that ^{226}Ra has only one gamma ray at 186 keV and the major gamma ray from ^{235}U also occurs at 186 keV. ^{235}U can be measured by the lower abundance gamma ray at 144 keV and if a positive result for ^{235}U is reported the ^{226}Ra result will be overestimated. If ^{235}U is below the LoD there may still be a contribution to the ^{226}Ra signal from ^{235}U and the ^{226}Ra result may still be overestimated. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Uranium-238 Decay Series					
				Th-234 (Bq/g)	Pa-234m (Bq/g)	Ra-226* (Bq/g)	Pb-214 (Bq/g)	Bi-214 (Bq/g)	Pb-210 (Bq/g)
NB7179	TRA/HR/2022/2771/215/C	Concrete	08/06/2022	<0.025	<0.11	0.036 ± 0.013	0.0214 ± 0.0021	0.0202 ± 0.0023	<0.022
NB7180	TRA/HR/2022/2771/217/C	Concrete	08/06/2022	<0.031	<0.22	<0.026	0.0167 ± 0.0025	0.0159 ± 0.0034	<0.029
NB7181	TRA/HR/2022/2771/219/C	Concrete	09/06/2022	<0.025	<0.23	0.062 ± 0.018	0.0316 ± 0.0029	0.0292 ± 0.0036	<0.021
NB7182	TRA/HR/2022/2771/221/C	Concrete	09/06/2022	<0.042	<0.27	<0.042	0.0186 ± 0.0037	0.0172 ± 0.0047	<0.038
NB7183	TRA/HR/2022/2771/222/C	Concrete	09/06/2022	<0.024	<0.12	0.037 ± 0.013	0.0202 ± 0.0021	0.0186 ± 0.0021	<0.021
NB7184	TRA/HR/2022/2771/223/C	Concrete	09/06/2022	<0.027	<0.24	<0.031	0.0214 ± 0.003	0.0203 ± 0.0037	<0.025
NB7185	TRA/HR/2022/2771/224/C	Concrete	09/06/2022	<0.031	<0.18	<0.023	0.0146 ± 0.0022	0.0163 ± 0.003	<0.029
NB7186	TRA/HR/2022/2771/227/C	Concrete	09/06/2022	<0.026	<0.22	<0.022	0.0248 ± 0.0025	0.0231 ± 0.0035	<0.021
NB7187	TRA/HR/2022/2771/228/C	Concrete	09/06/2022	<0.023	<0.11	<0.017	0.0198 ± 0.0018	0.0181 ± 0.002	<0.021
NB7188	TRA/HR/2022/2771/229/C	Concrete	09/06/2022	<0.030	<0.18	<0.023	0.0198 ± 0.0024	0.0176 ± 0.0029	<0.028
NC4099	TRA-HR-2022-1751-AS1-C	Concrete	27/04/2023	<0.025	<0.24	<0.027	0.0247 ± 0.0031	0.0241 ± 0.004	<0.022
NC4100	TRA-HR-2022-1751-AS2-C	Concrete	27/04/2023	<0.041	<0.22	<0.033	0.0207 ± 0.0028	0.0178 ± 0.0035	<0.034
NC4101	TRA-HR-2022-1752-AS3-C	Concrete	27/04/2023	<0.031	<0.19	<0.028	0.0212 ± 0.0025	0.0196 ± 0.0031	<0.027
NC4102	TRA-HR-2022-1752-AS4-C	Concrete	27/04/2023	<0.036	<0.24	<0.031	0.0198 ± 0.003	0.0186 ± 0.0038	<0.035
NC4103	TRA-HR-2022-1901-AS5-C	Concrete	27/04/2023	<0.029	<0.26	<0.027	0.0237 ± 0.0029	0.0181 ± 0.0039	<0.023
NC4104	TRA-HR-2022-1951-AS7-C	Concrete	27/04/2023	<0.044	<0.26	<0.038	0.022 ± 0.0032	0.0171 ± 0.0041	<0.036
NC4105	TRA-HR-2022-2752-AS8-C	Concrete	09/05/2023	<0.031	<0.18	<0.03	0.0207 ± 0.0027	0.02 ± 0.0033	<0.026
NC4106	TRA-HR-2022-2071-AS12-C	Concrete	09/05/2023	<0.044	<0.36	0.097 ± 0.038	0.0413 ± 0.0048	0.0352 ± 0.006	<0.043
NC4115	TRA-HR-2022-1901-AS6-C	Concrete	27/04/2023	<0.032	<0.28	<0.031	0.0268 ± 0.0033	0.0264 ± 0.0047	<0.025

Table 7. Gamma spectrometry for the ^{238}U decay series (^{234}Th , $^{234\text{m}}\text{Pa}$, ^{226}Ra , ^{214}Pb , ^{214}Bi , ^{210}Pb). Note that ^{226}Ra has only one gamma ray at 186 keV and the major gamma ray from ^{235}U also occurs at 186 keV. ^{235}U can be measured by the lower abundance gamma ray at 144 keV and if a positive result for ^{235}U is reported the ^{226}Ra result will be overestimated. If ^{235}U is below the LoD there may still be a contribution to the ^{226}Ra signal from ^{235}U and the ^{226}Ra result may still be overestimated. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref				Gamma Spectrometry					
				Uranium-238 Decay Series					
				Th-234 (Bq/g)	Pa-234m (Bq/g)	Ra-226* (Bq/g)	Pb-214 (Bq/g)	Bi-214 (Bq/g)	Pb-210 (Bq/g)
NC4116	TRA-HR-2022-2771-AS9-C	Concrete	09/05/2023	<0.045	<0.23	<0.034	0.0252 ± 0.0032	0.0203 ± 0.0038	<0.037
NC4119	TRA-HR-2022-2970-AS10-C	Concrete	11/05/2023	<0.04	<0.48	<0.044	0.0315 ± 0.0045	0.0313 ± 0.0052	<0.038
NC4122	TRA-HR-2022-2970-AS11-C	Concrete	09/05/2023	<0.037	<0.27	<0.034	0.0272 ± 0.0034	0.0213 ± 0.0044	<0.036
NC4125	TRA-HR-2022-2802.north.debris	Debris	09/05/2023	<0.06	<2.4	<0.1	<0.017	<0.025	0.212 ± 0.061
NC4126	TRA-HR-2022-2802.east.debris	Debris	09/05/2023	<0.11	<2.8	<0.16	<0.022	<0.03	<0.13
NC4127	TRA-HR-2022-2802.south.debris	Debris	09/05/2023	<0.064	<1.3	<0.092	<0.013	<0.017	<0.11
NC4128	TRA-HR-2022-2802.west.debris	Debris	09/05/2023	<0.056	<1	<0.07	<0.0097	<0.012	0.334 ± 0.082
NC1086	Bulk Paint Sample 1	Paint (flakes)	01/01/2023	<0.044	<0.54	<0.060	<0.0073	<0.0089	<0.044
NC1087	Bulk Paint Sample 2	Paint (flakes)	01/01/2023	<0.039	<0.55	<0.060	0.0147 ± 0.0052	<0.0089	<0.035

Table 8. Gamma spectrometry for the artificial radionuclides ^{54}Mn , ^{59}Fe , ^{57}Co , ^{58}Co , ^{60}Co , ^{65}Zn . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (1)					
				Mn-54 (Bq/g)	Fe-59 (Bq/g)	Co-57 (Bq/g)	Co-58 (Bq/g)	Co-60 (Bq/g)	Zn-65 (Bq/g)
NB6528	TRA/HR/2022/1E91/001/F	Roofing felt	29/06/2022	<0.023	<0.36	<0.0096	<0.063	<0.021	<0.057
NB6529	TRA/HR/2022/1E91/003/F	Roofing felt	29/06/2022	<0.0089	<0.15	<0.0040	<0.024	<0.0078	<0.024
NB6530	TRA/HR/2022/1E91/004/F	Roofing felt	29/06/2022	<0.017	<0.25	<0.0065	<0.041	<0.014	<0.041
NB6531	TRA/HR/2022/1E91/005/F	Roofing felt	29/06/2022	<0.0076	<0.13	<0.0034	<0.020	<0.0075	<0.021
NB6532	TRA/HR/2022/1E91/007/F	Roofing felt	29/06/2022	<0.014	<0.20	<0.0056	<0.032	<0.012	<0.033
NB6533	TRA/HR/2022/1E91/008/F	Roofing felt	29/06/2022	<0.017	<0.26	<0.0070	<0.045	<0.015	<0.041
NB6534	TRA/HR/2022/1E91/009/F	Roofing felt	29/06/2022	<0.012	<0.21	<0.0050	<0.032	<0.012	<0.034
NB6535	TRA/HR/2022/1E91/011/F	Roofing felt	04/07/2022	<0.0062	<0.093	<0.0028	<0.017	<0.0065	<0.018
NB6536	TRA/HR/2022/1E91/013/F	Roofing felt	04/07/2022	<0.013	<0.19	<0.0052	<0.033	<0.013	<0.035
NB6537	TRA/HR/2022/1E91/014/F	Roofing felt	04/07/2022	<0.0077	<0.13	<0.0032	<0.020	<0.0075	<0.023
NB6538	TRA/HR/2022/1E91/015/F	Roofing felt	04/07/2022	<0.012	<0.18	<0.0050	<0.031	<0.012	<0.030
NB6539	TRA/HR/2022/1E91/016/F	Roofing felt	04/07/2022	<0.017	<0.25	<0.0072	<0.044	<0.016	<0.048
NB6540	TRA/HR/2022/1E91/018/F	Roofing felt	04/07/2022	<0.0092	<0.15	<0.0041	<0.024	<0.0092	<0.028
NB6541	TRA/HR/2022/1E91/019/F	Roofing felt	04/07/2022	<0.0070	<0.11	<0.0029	<0.018	<0.0062	<0.020
NB6542	TRA/HR/2022/1E91/020/F	Roofing felt	04/07/2022	<0.015	<0.25	<0.0049	<0.038	<0.016	<0.042
NB6543	TRA/HR/2022/1751/133/M	Metal	28/06/2022	<0.0027	<0.044	<0.0017	<0.0078	<0.0025	<0.0075
NB6544	TRA/HR/2022/1651/134/M	Metal	28/06/2022	<0.0052	<0.085	<0.0017	<0.014	<0.0052	<0.015
NB6545	TRA/HR/2022/1610/135/P	Paint (flakes)	24/06/2022	<0.035	<0.64	<0.015	<0.11	<0.038	<0.091
NB6546	TRA/HR/2022/1610/137/P	Paint (flakes)	24/06/2022	<0.035	<0.60	<0.014	<0.094	<0.032	<0.094
NB6547	TRA/HR/2022/1610/141/P	Paint (flakes)	24/06/2022	<0.064	<1.2	<0.025	<0.19	<0.066	<0.18

Table 8. Gamma spectrometry for the artificial radionuclides ⁵⁴Mn, ⁵⁹Fe, ⁵⁷Co, ⁵⁸Co, ⁶⁰Co, ⁶⁵Zn. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (1)					
				Mn-54 (Bq/g)	Fe-59 (Bq/g)	Co-57 (Bq/g)	Co-58 (Bq/g)	Co-60 (Bq/g)	Zn-65 (Bq/g)
NB6548	TRA/HR/2022/1610/145/P	Paint (flakes)	24/06/2022	<0.038	<0.73	<0.012	<0.11	<0.036	<0.12
NB6549	TRA/HR/2022/1610/147/P	Paint (flakes)	27/06/2022	<0.043	<0.67	<0.024	<0.12	<0.042	<0.12
NB6550	TRA/HR/2022/1610/151/P	Paint (flakes)	27/06/2022	<0.050	<0.76	<0.020	<0.12	<0.045	<0.12
NB6551	TRA/HR/2022/1610/154/P	Paint (flakes)	27/06/2022	<0.035	<0.59	<0.015	<0.090	<0.035	<0.097
NB6552	TRA/HR/2022/1610/157/P	Paint (flakes)	27/06/2022	<0.064	<1.2	<0.024	<0.17	<0.066	<0.18
NB6553	TRA/HR/2022/1610/159/P	Paint (flakes)	27/06/2022	<0.052	<0.98	<0.018	<0.16	<0.055	<0.16
NB6554	TRA/HR/2022/1610/160/P	Paint (flakes)	27/06/2022	<0.038	<0.61	<0.021	<0.11	<0.035	<0.097
NB6555	TRA/HR/2022/1610/163/P	Paint (flakes)	28/06/2022	<0.044	<0.80	<0.018	<0.13	<0.045	<0.14
NB6556	TRA/HR/2022/1610/167/P	Paint (flakes)	28/06/2022	<0.021	<0.35	<0.0092	<0.057	<0.021	<0.063
NB6557	TRA/HR/2022/1670/170/P	Paint (flakes)	28/06/2022	<0.031	<0.51	<0.012	<0.081	<0.033	<0.087
NB6558	TRA/HR/2022/1670/172/P	Paint (flakes)	28/06/2022	<0.057	<0.98	<0.017	<0.16	<0.056	<0.16
NB6559	TRA/HR/2022/1670/174/P	Paint (flakes)	28/06/2022	<0.063	<1.1	<0.033	<0.18	<0.058	<0.17
NB6560	TRA/HR/2022/1670/175/P	Paint (flakes)	28/06/2022	<0.19	<3.3	<0.054	<0.48	<0.20	<0.54
NB6561	TRA/HR/2022/1670/176/P	Paint (flakes)	29/06/2022	<0.036	<0.59	<0.014	<0.080	<0.031	<0.088
NB6562	TRA/HR/2022/1670/177/P	Paint (flakes)	29/06/2022	<0.071	<1.2	<0.040	<0.19	<0.064	<0.20
NB6563	TRA/HR/2022/1670/178/P	Paint (flakes)	29/06/2022	<0.16	<2.7	<0.065	<0.40	<0.15	<0.40
NB6564	TRA/HR/2022/1670/179/P	Paint (flakes)	29/06/2022	<0.065	<1.1	<0.036	<0.19	<0.059	<0.20
NB6565	TRA/HR/2022/1605/232/O	Oil / Grease	11/07/2022	<0.016	<0.23	<0.0059	<0.040	0.036 ± 0.013	<0.044
NB6566	TRA/HR/2022/1605/233/O	Oil / Grease	11/07/2022	<0.026	<0.37	<0.0072	<0.062	<0.033	<0.068
NB6567	TRA/HR/2022/1740/234/O	Oil / Grease	11/07/2022	<0.042	<0.56	<0.023	<0.10	<0.036	<0.11

Table 8. Gamma spectrometry for the artificial radionuclides ⁵⁴Mn, ⁵⁹Fe, ⁵⁷Co, ⁵⁸Co, ⁶⁰Co, ⁶⁵Zn. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (1)					
				Mn-54 (Bq/g)	Fe-59 (Bq/g)	Co-57 (Bq/g)	Co-58 (Bq/g)	Co-60 (Bq/g)	Zn-65 (Bq/g)
NB6568	TRA/HR/2022/1740/235/O	Oil / Grease	11/07/2022	<0.0042	<0.065	<0.0018	<0.010	<0.0041	<0.012
NB6569	TRA/HR/2022/1E91/021/C	Concrete	22/06/2022	<0.0020	<0.035	<0.0011	<0.0052	<0.0019	<0.0066
NB6570	TRA/HR/2022/1E91/024/C	Concrete	22/06/2022	<0.0023	<0.047	<0.00086	<0.0064	<0.0025	<0.0071
NB6571	TRA/HR/2022/1E91/025/C	Concrete	22/06/2022	<0.0016	<0.029	<0.0012	<0.0044	<0.0015	<0.0052
NB6572	TRA/HR/2022/1E91/026/C	Concrete	22/06/2022	<0.0024	<0.049	<0.0012	<0.0065	<0.0023	<0.0075
NB6573	TRA/HR/2022/1E91/028/C	Concrete	22/06/2022	<0.0031	<0.059	<0.0015	<0.0088	<0.0034	<0.0094
NB6574	TRA/HR/2022/1E91/032/C	Concrete	22/06/2022	<0.0025	<0.049	<0.00087	<0.0072	<0.0025	<0.0073
NB6575	TRA/HR/2022/1E91/033/C	Concrete	22/06/2022	<0.0019	<0.033	<0.0015	<0.0056	<0.0018	<0.0064
NB6576	TRA/HR/2022/1E91/034/C	Concrete	22/06/2022	<0.0020	<0.036	<0.0011	<0.0052	<0.0019	<0.0058
NB6577	TRA/HR/2022/1E91/037/C	Concrete	22/06/2022	<0.0024	<0.046	<0.0012	<0.0068	<0.0024	<0.0080
NB6578	TRA/HR/2022/1E91/038/C	Concrete	22/06/2022	<0.0025	<0.046	<0.00095	<0.0066	<0.0025	<0.0078
NB6579	TRA/HR/2022/1960/041/C	Concrete	14/06/2022	<0.0040	<0.076	<0.0024	<0.013	<0.0040	<0.013
NB6580	TRA/HR/2022/1960/042/C	Concrete	14/06/2022	<0.0036	<0.069	<0.0015	<0.011	<0.0033	<0.011
NB6581	TRA/HR/2022/1960/044/C	Concrete	14/06/2022	<0.0023	<0.052	<0.0012	<0.0068	<0.0024	<0.0073
NB6582	TRA/HR/2022/1960/046/C	Concrete	14/06/2022	<0.0028	<0.057	<0.0010	<0.0078	<0.0028	<0.0092
NB6583	TRA/HR/2022/1960/047/C	Concrete	14/06/2022	<0.0026	<0.050	<0.0017	<0.0072	<0.0023	<0.0080
NB6584	TRA/HR/2022/1960/049/C	Concrete	14/06/2022	<0.0025	<0.053	<0.0014	<0.0079	<0.0028	<0.0093
NB6585	TRA/HR/2022/1960/050/C	Concrete	14/06/2022	<0.0035	<0.077	<0.0017	<0.012	<0.0038	<0.012
NB6586	TRA/HR/2022/1960/051/C	Concrete	16/06/2022	<0.0025	<0.057	<0.00093	<0.0074	<0.0025	<0.0088
NB6587	TRA/HR/2022/1960/052/C	Concrete	16/06/2022	<0.0027	<0.050	<0.0017	<0.0077	<0.0023	<0.0088

Table 8. Gamma spectrometry for the artificial radionuclides ⁵⁴Mn, ⁵⁹Fe, ⁵⁷Co, ⁵⁸Co, ⁶⁰Co, ⁶⁵Zn. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (1)					
				Mn-54 (Bq/g)	Fe-59 (Bq/g)	Co-57 (Bq/g)	Co-58 (Bq/g)	Co-60 (Bq/g)	Zn-65 (Bq/g)
NB6588	TRA/HR/2022/1960/053/C	Concrete	16/06/2022	<0.0031	<0.059	<0.0015	<0.0087	<0.0030	<0.0092
NB6589	TRA/HR/2022/1960/054/C	Concrete	16/06/2022	<0.0027	<0.052	<0.0013	<0.0078	<0.0026	<0.0084
NB6590	TRA/HR/2022/1960/055/C	Concrete	16/06/2022	<0.0042	<0.089	<0.0015	<0.013	<0.0047	<0.015
NB6591	TRA/HR/2022/1960/056/C	Concrete	16/06/2022	<0.0031	<0.060	<0.0019	<0.0093	<0.0028	<0.011
NB6592	TRA/HR/2022/1960/057/C	Concrete	16/06/2022	<0.0038	<0.089	<0.0019	<0.012	<0.0039	<0.014
NB6593	TRA/HR/2022/1960/058/C	Concrete	16/06/2022	<0.0036	<0.071	<0.0017	<0.012	<0.0034	<0.012
NB6594	TRA/HR/2022/1960/060/C	Concrete	16/06/2022	<0.0028	<0.059	<0.0010	<0.0079	<0.0030	<0.0082
NB6595	TRA/HR/2022/1960/061/C	Concrete	24/06/2022	<0.0017	<0.030	<0.0013	<0.0048	<0.0016	<0.0057
NB6596	TRA/HR/2022/1960/062/C	Concrete	24/06/2022	<0.0028	<0.050	<0.0013	<0.0072	<0.0027	<0.0083
NB6597	TRA/HR/2022/1960/063/C	Concrete	24/06/2022	<0.0033	<0.061	<0.0014	<0.0089	<0.0033	<0.0096
NB6598	TRA/HR/2022/1960/064/C	Concrete	24/06/2022	<0.0027	<0.050	<0.00096	<0.0069	<0.0025	<0.0093
NB6599	TRA/HR/2022/1970/065/C	Concrete	21/06/2022	<0.0039	<0.066	<0.0022	<0.011	<0.0033	<0.012
NB6600	TRA/HR/2022/1970/066/C	Concrete	21/06/2022	<0.0023	<0.045	<0.0012	<0.0067	<0.0023	<0.0073
NB6601	TRA/HR/2022/1970/068/C	Concrete	21/06/2022	<0.0033	<0.063	<0.0015	<0.0095	<0.0034	<0.012
NB6602	TRA/HR/2022/1970/071/C	Concrete	21/06/2022	<0.0027	<0.050	<0.00096	<0.0071	<0.0028	<0.0077
NB6603	TRA/HR/2022/1970/072/C	Concrete	21/06/2022	<0.0023	<0.040	<0.0015	<0.0063	<0.0021	<0.0068
NB6604	TRA/HR/2022/1970/073/C	Concrete	21/06/2022	<0.0036	<0.074	<0.0016	<0.011	<0.0037	<0.011
NB6605	TRA/HR/2022/1970/074/C	Concrete	21/06/2022	<0.0024	<0.045	<0.0013	<0.0068	<0.0025	<0.0076
NB6606	TRA/HR/2022/1970/077/C	Concrete	21/06/2022	<0.0023	<0.044	<0.00088	<0.0067	<0.0025	<0.0067
NB6607	TRA/HR/2022/1970/078/C	Concrete	21/06/2022	<0.0025	<0.042	<0.0016	<0.0067	<0.0022	<0.0073

Table 8. Gamma spectrometry for the artificial radionuclides ⁵⁴Mn, ⁵⁹Fe, ⁵⁷Co, ⁵⁸Co, ⁶⁰Co, ⁶⁵Zn. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (1)					
				Mn-54 (Bq/g)	Fe-59 (Bq/g)	Co-57 (Bq/g)	Co-58 (Bq/g)	Co-60 (Bq/g)	Zn-65 (Bq/g)
NB6608	TRA/HR/2022/1970/079/C	Concrete	21/06/2022	<0.0026	<0.052	<0.0013	<0.0073	<0.0025	<0.0087
NB6609	TRA/HR/2022/1970/080/C	Concrete	21/06/2022	<0.0026	<0.051	<0.0012	<0.0070	<0.0028	<0.0085
NB6610	TRA/HR/2022/1970/082/C	Concrete	21/06/2022	<0.0026	<0.055	<0.00092	<0.0069	<0.0027	<0.0079
NB6611	TRA/HR/2022/1970/083/C	Concrete	21/06/2022	<0.0024	<0.044	<0.0016	<0.0066	0.0090 ± 0.0016	<0.0074
NB6612	TRA/HR/2022/1970/084/C	Concrete	21/06/2022	<0.0016	<0.030	<0.0009	<0.0044	<0.0015	<0.0053
NB6613	TRA/HR/2022/1970/085/C	Concrete	23/06/2022	<0.0015	<0.025	<0.00085	<0.0040	0.00525 ± 0.00093	<0.0046
NB6614	TRA/HR/2022/1970/086/C	Concrete	23/06/2022	<0.0015	<0.025	<0.00084	<0.0040	0.0060 ± 0.0010	<0.0045
NB6615	TRA/HR/2022/1970/087/C	Concrete	23/06/2022	<0.0017	<0.028	<0.00094	<0.0044	0.0265 ± 0.0024	<0.0052
NB6616	TRA/HR/2022/1970/088/C	Concrete	23/06/2022	<0.0029	<0.052	<0.0011	<0.0079	0.0425 ± 0.0041	<0.0085
NB6617	TRA/HR/2022/1901/089/C	Concrete	23/05/2022	<0.0042	<0.13	<0.0019	<0.015	<0.0039	<0.014
NB6618	TRA/HR/2022/1901/090/C	Concrete	23/05/2022	<0.0026	<0.083	<0.0010	<0.0092	<0.0027	<0.0086
NB6619	TRA/HR/2022/1901/091/C	Concrete	23/05/2022	<0.0034	<0.089	<0.0020	<0.013	<0.0029	<0.010
NB6620	TRA/HR/2022/1901/092/C	Concrete	23/05/2022	<0.0038	<0.12	<0.0019	<0.016	<0.0037	<0.012
NB6621	TRA/HR/2022/1901/093/C	Concrete	23/05/2022	<0.0042	<0.12	<0.0018	<0.015	<0.0037	<0.012
NB6622	TRA/HR/2022/1951/094/C	Concrete	23/05/2022	<0.0029	<0.082	<0.0011	<0.011	<0.0028	<0.0091
NB6623	TRA/HR/2022/1951/095/C	Concrete	23/05/2022	<0.0025	<0.066	<0.0017	<0.0087	<0.0021	<0.0082
NB6624	TRA/HR/2022/1951/096/C	Concrete	23/05/2022	<0.0027	<0.072	<0.0013	<0.0095	<0.0024	<0.0080
NB6625	TRA/HR/2022/1951/097/C	Concrete	23/05/2022	<0.0016	<0.044	<0.00092	<0.0058	<0.0016	<0.0052
NB6626	TRA/HR/2022/1951/098/C	Concrete	23/05/2022	<0.0026	<0.076	<0.0013	<0.0096	<0.0024	<0.0082
NB6627	TRA/HR/2022/1601/099/C	Concrete	24/05/2022	<0.0037	<0.13	<0.0014	<0.014	<0.0037	<0.013

Table 8. Gamma spectrometry for the artificial radionuclides ⁵⁴Mn, ⁵⁹Fe, ⁵⁷Co, ⁵⁸Co, ⁶⁰Co, ⁶⁵Zn. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (1)					
				Mn-54 (Bq/g)	Fe-59 (Bq/g)	Co-57 (Bq/g)	Co-58 (Bq/g)	Co-60 (Bq/g)	Zn-65 (Bq/g)
NB6628	TRA/HR/2022/1602/104/C	Concrete	24/05/2022	<0.0022	<0.062	<0.0016	<0.0080	<0.0020	<0.0072
NB6629	TRA/HR/2022/1603/105/C	Concrete	24/05/2022	<0.0025	<0.064	<0.0013	<0.0085	<0.0022	<0.0069
NB6630	TRA/HR/2022/1651/100/C	Concrete	22/06/2022	<0.0013	<0.024	<0.00084	<0.0036	<0.0013	<0.0042
NB6631	TRA/HR/2022/1651/101/C	Concrete	22/06/2022	<0.0018	<0.038	<0.0011	<0.0053	<0.0019	<0.0062
NB6632	TRA/HR/2022/1651/102/C	Concrete	22/06/2022	<0.0022	<0.045	<0.00085	<0.0059	<0.0023	<0.0065
NB6633	TRA/HR/2022/1651/103/C	Concrete	22/06/2022	<0.0020	<0.031	<0.0014	<0.0057	<0.0019	<0.0065
NB6634	TRA/HR/2022/1762/111/C	Concrete	24/05/2022	<0.0024	<0.068	<0.0012	<0.0080	<0.0022	<0.0070
NB6635	TRA/HR/2022/1652/106/C	Concrete	23/06/2022	<0.0024	<0.043	<0.0011	<0.0063	<0.0024	<0.0073
NB6636	TRA/HR/2022/1652/107/C	Concrete	23/06/2022	<0.0025	<0.047	<0.0013	<0.0068	<0.0024	<0.0085
NB6637	TRA/HR/2022/1761/108/C	Concrete	23/05/2022	<0.0016	<0.046	<0.00093	<0.0055	<0.0015	<0.0051
NB6638	TRA/HR/2022/1652/109/C	Concrete	23/06/2022	<0.0018	<0.034	<0.00096	<0.0048	<0.0017	<0.0055
NB6639	TRA/HR/2022/1652/110/C	Concrete	23/06/2022	<0.0021	<0.042	<0.00087	<0.0056	<0.0021	<0.0072
NB6640	TRA/HR/2022/1763/114/C	Concrete	24/05/2022	<0.0021	<0.058	<0.0016	<0.0077	<0.0019	<0.0073
NB6641	TRA/HR/2022/1653/112/C	Concrete	23/06/2022	<0.0020	<0.035	<0.0011	<0.0055	<0.0020	<0.0063
NB6642	TRA/HR/2022/1653/113/C	Concrete	23/06/2022	<0.0019	<0.036	<0.0011	<0.0051	<0.0019	<0.0065
NB6643	TRA/HR/2022/1653/115/C	Concrete	23/06/2022	<0.0012	<0.021	<0.00075	<0.0032	<0.0011	<0.0042
NB6644	TRA/HR/2022/1653/116/C	Concrete	23/06/2022	<0.0018	<0.036	<0.00097	<0.0048	<0.0018	<0.0056
NB6645	TRA/HR/2022/1507/117/C	Concrete	25/05/2022	<0.0022	<0.072	<0.00086	<0.0078	<0.0021	<0.0074
NB6646	TRA/HR/2022/1507/118/C	Concrete	25/05/2022	<0.0034	<0.098	<0.0020	<0.012	<0.0029	<0.010
NB6647	TRA/HR/2022/1508/119/C	Concrete	25/05/2022	<0.0014	<0.037	<0.00083	<0.0046	<0.0013	<0.0046

Table 8. Gamma spectrometry for the artificial radionuclides ⁵⁴Mn, ⁵⁹Fe, ⁵⁷Co, ⁵⁸Co, ⁶⁰Co, ⁶⁵Zn. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (1)					
				Mn-54 (Bq/g)	Fe-59 (Bq/g)	Co-57 (Bq/g)	Co-58 (Bq/g)	Co-60 (Bq/g)	Zn-65 (Bq/g)
NB6648	TRA/HR/2022/1508/120/C	Concrete	25/05/2022	<0.0016	<0.043	<0.00087	<0.0055	<0.0015	<0.0049
NB6649	TRA/HR/2022/1509/121/C	Concrete	25/05/2022	<0.0015	<0.043	<0.00083	<0.0053	<0.0014	<0.0049
NB6650	TRA/HR/2022/1509/122/C	Concrete	25/05/2022	<0.0019	<0.054	<0.0011	<0.0067	<0.0019	<0.0062
NB6651	TRA/HR/2022/1751/123/C	Concrete	25/05/2022	<0.0022	<0.063	<0.00086	<0.0071	<0.0021	<0.0068
NB6652	TRA/HR/2022/1751/124/C	Concrete	25/05/2022	<0.0024	<0.065	<0.0016	<0.0086	<0.0022	<0.0075
NB6653	TRA/HR/2022/1752/125/C	Concrete	25/05/2022	<0.0021	<0.056	<0.0015	<0.0074	<0.0019	<0.0072
NB6654	TRA/HR/2022/1752/126/C	Concrete	25/05/2022	<0.0021	<0.059	<0.0012	<0.0076	<0.0021	<0.0068
NB6655	TRA/HR/2022/1753/127/C	Concrete	25/05/2022	<0.0026	<0.065	<0.0012	<0.0081	<0.0022	<0.0073
NB6656	TRA/HR/2022/1753/128/C	Concrete	25/05/2022	<0.0022	<0.072	<0.0012	<0.0083	<0.0022	<0.0074
NB6657	TRA/HR/2022/1610/180/C	Concrete	29/06/2022	<0.0021	<0.038	<0.00082	<0.0057	<0.0021	<0.0064
NB6658	TRA/HR/2022/1610/181/C	Concrete	29/06/2022	<0.0018	<0.037	<0.00077	<0.0051	<0.0020	<0.0065
NB6659	TRA/HR/2022/1610/182/C	Concrete	29/06/2022	<0.0025	<0.047	<0.00091	<0.0068	<0.0025	<0.0081
NB6660	TRA/HR/2022/1610/183/C	Concrete	29/06/2022	<0.0018	<0.033	<0.0011	<0.0051	<0.0019	<0.0057
NB6661	TRA/HR/2022/1610/184/C	Concrete	29/06/2022	<0.0019	<0.031	<0.0014	<0.0052	<0.0018	<0.0062
NB6662	TRA/HR/2022/1605/190/C	Concrete	26/05/2022	<0.0018	<0.052	<0.00095	<0.0062	<0.0016	<0.0055
NB6663	TRA/HR/2022/1605/191/C	Concrete	26/05/2022	<0.0024	<0.069	<0.00088	<0.0073	<0.0021	<0.0074
NB6664	TRA/HR/2022/1605/192/C	Concrete	26/05/2022	<0.0022	<0.058	<0.0015	<0.0079	<0.0020	<0.0065
NB6665	TRA/HR/2022/1605/193/C	Concrete	26/05/2022	<0.0020	<0.057	<0.0011	<0.0070	<0.0019	<0.0063
NB6666	TRA/HR/2022/1605/195/C	Concrete	26/05/2022	<0.0019	<0.049	<0.0011	<0.0064	<0.0017	<0.0056
NB6667	TRA/HR/2022/1605/196/C	Concrete	26/05/2022	<0.0016	<0.042	<0.00084	<0.0052	0.00386 ± 0.00089	<0.0052

Table 8. Gamma spectrometry for the artificial radionuclides ^{54}Mn , ^{59}Fe , ^{57}Co , ^{58}Co , ^{60}Co , ^{65}Zn . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (1)					
				Mn-54 (Bq/g)	Fe-59 (Bq/g)	Co-57 (Bq/g)	Co-58 (Bq/g)	Co-60 (Bq/g)	Zn-65 (Bq/g)
NB6668	TRA/HR/2022/1605/197/C	Concrete	26/05/2022	<0.0019	<0.055	<0.0011	<0.0066	<0.0018	<0.0061
NB6669	TRA/HR/2022/1605/198/C	Concrete	26/05/2022	<0.0023	<0.070	<0.00087	<0.0079	<0.0022	<0.0072
NB6670	TRA/HR/2022/1605/201/C	Concrete	01/06/2022	<0.0026	<0.065	<0.0018	<0.0088	<0.0022	<0.0084
NB6671	TRA/HR/2022/1605/203/C	Concrete	01/06/2022	<0.0018	<0.044	<0.0010	<0.0056	<0.0017	<0.0055
NB6672	TRA/HR/2022/1605/204/C	Concrete	01/06/2022	<0.0024	<0.063	<0.0012	<0.0082	<0.0022	<0.0080
NB6673	TRA/HR/2022/1605/205/C	Concrete	01/06/2022	<0.0019	<0.044	<0.0013	<0.0064	<0.0016	<0.0058
NB6674	TRA/HR/2022/1605/206/C	Concrete	01/06/2022	<0.0018	<0.044	<0.0013	<0.0056	<0.0016	<0.0055
NB6675	TRA/HR/2022/1605/209/C	Concrete	01/06/2022	<0.0026	<0.073	<0.00092	<0.0085	<0.0026	<0.0093
NB6676	TRA/HR/2022/1771/211/C	Concrete	08/06/2022	<0.0024	<0.057	<0.0012	<0.0070	<0.0023	<0.0072
NB6677	TRA/HR/2022/1771/212/C	Concrete	08/06/2022	<0.0021	<0.047	<0.0011	<0.0065	<0.0020	<0.0062
NB6678	TRA/HR/2022/1754/213/C	Concrete	08/06/2022	<0.0021	<0.054	<0.0012	<0.0064	<0.0020	<0.0063
NB6679	TRA/HR/2022/1754/215/C	Concrete	08/06/2022	<0.0024	<0.056	<0.0012	<0.0076	<0.0023	<0.0075
NB6680	TRA/HR/2022/1771/218/C	Concrete	08/06/2022	<0.0021	<0.048	<0.0011	<0.0062	<0.0020	<0.0067
NB6681	TRA/HR/2022/1755/219/C	Concrete	09/06/2022	<0.0026	<0.062	<0.0013	<0.0078	<0.0025	<0.0075
NB6682	TRA/HR/2022/1771/220/C	Concrete	09/06/2022	<0.0018	<0.039	<0.0013	<0.0055	<0.0016	<0.0056
NB6683	TRA/HR/2022/1771/221/C	Concrete	09/06/2022	<0.0018	<0.038	<0.0013	<0.0053	<0.0016	<0.0053
NB6684	TRA/HR/2022/1771/223/C	Concrete	09/06/2022	<0.0015	<0.035	<0.00083	<0.0047	<0.0013	<0.0049
NB6685	TRA/HR/2022/1771/226/C	Concrete	09/06/2022	<0.0024	<0.055	<0.0013	<0.0073	<0.0023	<0.0077
NB6686	TRA/HR/2022/1755/227/C	Concrete	09/06/2022	<0.0015	<0.036	<0.00087	<0.0052	<0.0015	<0.0054
NB7034	TRA/HR/2022/2E91/001/F	Roofing felt	07/07/2022	<0.013	<0.25	<0.0058	<0.036	<0.012	<0.036

Table 8. Gamma spectrometry for the artificial radionuclides ^{54}Mn , ^{59}Fe , ^{57}Co , ^{58}Co , ^{60}Co , ^{65}Zn . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (1)					
				Mn-54 (Bq/g)	Fe-59 (Bq/g)	Co-57 (Bq/g)	Co-58 (Bq/g)	Co-60 (Bq/g)	Zn-65 (Bq/g)
NB7035	TRA/HR/2022/2E91/003/F	Roofing felt	07/07/2022	<0.0095	<0.18	<0.0043	<0.027	<0.0085	<0.027
NB7036	TRA/HR/2022/2E91/004/F	Roofing felt	07/07/2022	<0.0097	<0.21	<0.0034	<0.028	<0.0095	<0.028
NB7037	TRA/HR/2022/2E91/005/F	Roofing felt	07/07/2022	<0.0056	<0.094	<0.0026	<0.015	<0.0049	<0.015
NB7038	TRA/HR/2022/2E91/007/F	Roofing felt	07/07/2022	<0.012	<0.22	<0.0056	<0.036	<0.012	<0.035
NB7039	TRA/HR/2022/2E91/008/F	Roofing felt	07/07/2022	<0.0043	<0.070	<0.0022	<0.012	<0.0037	<0.012
NB7040	TRA/HR/2022/2E91/009/F	Roofing felt	07/07/2022	<0.0043	<0.082	<0.0023	<0.012	<0.0041	<0.012
NB7041	TRA/HR/2022/2E91/011/F	Roofing felt	07/07/2022	<0.0053	<0.10	<0.0028	<0.016	<0.0045	<0.015
NB7042	TRA/HR/2022/2E91/013/F	Roofing felt	07/07/2022	<0.0073	<0.16	<0.0025	<0.021	<0.0074	<0.022
NB7043	TRA/HR/2022/2E91/014/F	Roofing felt	07/07/2022	<0.0061	<0.11	<0.0033	<0.017	<0.0058	<0.017
NB7044	TRA/HR/2022/2E91/015/F	Roofing felt	07/07/2022	<0.0076	<0.14	<0.0035	<0.021	<0.0077	<0.021
NB7045	TRA/HR/2022/2E91/016/F	Roofing felt	07/07/2022	<0.012	<0.21	<0.0036	<0.030	<0.011	<0.032
NB7046	TRA/HR/2022/2E91/018/F	Roofing felt	07/07/2022	<0.013	<0.24	<0.0081	<0.036	<0.012	<0.035
NB7047	TRA/HR/2022/2E91/019/F	Roofing felt	07/07/2022	<0.0084	<0.15	<0.0048	<0.024	<0.0072	<0.024
NB7048	TRA/HR/2022/2E91/020/F	Roofing felt	07/07/2022	<0.0080	<0.13	<0.0041	<0.021	<0.0070	<0.021
NB7049	TRA/HR/2022/2610/136/P	Paint (flakes)	27/07/2022	<0.041	<0.61	<0.014	<0.086	<0.038	<0.11
NB7050	TRA/HR/2022/2610/139/P	Paint (flakes)	27/07/2022	<0.032	<0.48	<0.010	<0.083	<0.033	<0.093
NB7051	TRA/HR/2022/2610/142/P	Paint (flakes)	27/07/2022	<0.047	<0.62	<0.024	<0.11	<0.042	<0.12
NB7052	TRA/HR/2022/2610/144/P	Paint (flakes)	27/07/2022	<0.030	<0.41	<0.013	<0.069	<0.028	<0.083
NB7053	TRA/HR/2022/2610/146/P	Paint (flakes)	27/07/2022	<0.037	<0.47	<0.015	<0.087	<0.033	<0.090
NB7054	TRA/HR/2022/2610/149/P	Paint (flakes)	27/07/2022	<0.035	<0.47	<0.013	<0.080	<0.037	<0.10

Table 8. Gamma spectrometry for the artificial radionuclides ⁵⁴Mn, ⁵⁹Fe, ⁵⁷Co, ⁵⁸Co, ⁶⁰Co, ⁶⁵Zn. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (1)					
				Mn-54 (Bq/g)	Fe-59 (Bq/g)	Co-57 (Bq/g)	Co-58 (Bq/g)	Co-60 (Bq/g)	Zn-65 (Bq/g)
NB7055	TRA/HR/2022/2610/152/P	Paint (flakes)	27/07/2022	<0.058	<0.91	<0.017	<0.13	<0.055	<0.17
NB7056	TRA/HR/2022/2610/154/P	Paint (flakes)	27/07/2022	<0.043	<0.58	<0.023	<0.11	<0.037	<0.12
NB7057	TRA/HR/2022/2610/158/P	Paint (flakes)	27/07/2022	<0.049	<0.72	<0.019	<0.12	<0.053	<0.15
NB7058	TRA/HR/2022/2610/161/P	Paint (flakes)	27/07/2022	<0.039	<0.52	<0.016	<0.084	<0.038	<0.094
NB7059	TRA/HR/2022/2610/163/P	Paint (flakes)	27/07/2022	<0.031	<0.40	<0.013	<0.069	<0.029	<0.077
NB7060	TRA/HR/2022/2610/166/P	Paint (flakes)	27/07/2022	<0.060	<0.83	<0.023	<0.15	<0.056	<0.18
NB7061	TRA/HR/2022/2610/169/P	Paint (flakes)	27/07/2022	<0.059	<0.89	<0.024	<0.15	<0.062	<0.19
NB7062	TRA/HR/2022/2670/171/P	Paint (flakes)	28/07/2022	<0.058	<0.93	<0.023	<0.15	<0.060	<0.18
NB7063	TRA/HR/2022/2670/173/P	Paint (flakes)	28/07/2022	<0.066	<0.98	<0.024	<0.16	<0.065	<0.19
NB7064	TRA/HR/2022/2670/175/P	Paint (flakes)	28/07/2022	<0.091	<1.6	<0.030	<0.23	<0.12	<0.27
NB7065	TRA/HR/2022/2670/176/P	Paint (flakes)	28/07/2022	<0.15	<2.1	<0.043	<0.35	<0.16	<0.43
NB7066	TRA/HR/2022/2670/177/P	Paint (flakes)	28/07/2022	<0.087	<1.5	<0.027	<0.22	<0.097	<0.26
NB7067	TRA/HR/2022/2670/178/P	Paint (flakes)	28/07/2022	<0.083	<1.3	<0.025	<0.21	<0.088	<0.24
NB7068	TRA/HR/2022/2670/179/P	Paint (flakes)	28/07/2022	<0.14	<1.8	<0.070	<0.34	<0.13	<0.36
NB7069	TRA/HR/2022/2652/132/M	Metal	04/07/2022	<0.0034	<0.059	<0.0019	<0.010	0.0067 ± 0.0026	<0.0090
NB7070	TRA/HR/2022/2652/134/M	Metal	04/07/2022	<0.013	<0.21	<0.0070	<0.036	<0.011	<0.033
NB7071	TRA/HR/2022/2E91/022/C	Concrete	07/07/2022	<0.0019	<0.030	<0.0013	<0.0051	<0.0017	<0.0059
NB7072	TRA/HR/2022/2E91/024/C	Concrete	07/07/2022	<0.0022	<0.036	<0.0015	<0.0057	<0.0020	<0.0061
NB7073	TRA/HR/2022/2E91/027/C	Concrete	07/07/2022	<0.0014	<0.027	<0.00082	<0.0036	<0.0014	<0.0044
NB7074	TRA/HR/2022/2E91/028/C	Concrete	07/07/2022	<0.0015	<0.026	<0.00082	<0.0037	<0.0014	<0.0047

Table 8. Gamma spectrometry for the artificial radionuclides ⁵⁴Mn, ⁵⁹Fe, ⁵⁷Co, ⁵⁸Co, ⁶⁰Co, ⁶⁵Zn. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (1)					
				Mn-54 (Bq/g)	Fe-59 (Bq/g)	Co-57 (Bq/g)	Co-58 (Bq/g)	Co-60 (Bq/g)	Zn-65 (Bq/g)
NB7075	TRA/HR/2022/2E91/030/C	Concrete	07/07/2022	<0.0012	<0.021	<0.00073	<0.0032	<0.0011	<0.0036
NB7076	TRA/HR/2022/2E91/033/C	Concrete	07/07/2022	<0.0021	<0.039	<0.0008	<0.0056	<0.0020	<0.0062
NB7077	TRA/HR/2022/2E91/034/C	Concrete	07/07/2022	<0.0019	<0.038	<0.00079	<0.0055	<0.0020	<0.0066
NB7078	TRA/HR/2022/2E91/036/C	Concrete	07/07/2022	<0.0020	<0.042	<0.0008	<0.0057	<0.0020	<0.0063
NB7079	TRA/HR/2022/2E91/037/C	Concrete	07/07/2022	<0.0020	<0.040	<0.00082	<0.0057	<0.0021	<0.0062
NB7080	TRA/HR/2022/2E91/039/C	Concrete	07/07/2022	<0.0021	<0.040	<0.00095	<0.0056	<0.0022	<0.0061
NB7081	TRA/HR/2022/2970/041/C	Concrete	12/07/2022	<0.0038	<0.061	<0.0017	<0.0099	<0.0038	<0.013
NB7082	TRA/HR/2022/2970/043/C	Concrete	12/07/2022	<0.0020	<0.031	<0.00099	<0.0046	<0.0020	<0.0061
NB7083	TRA/HR/2022/2970/044/C	Concrete	12/07/2022	<0.0035	<0.053	<0.0015	<0.0085	<0.0035	<0.010
NB7084	TRA/HR/2022/2970/045/C	Concrete	12/07/2022	<0.0042	<0.073	<0.0015	<0.012	<0.0059	<0.014
NB7085	TRA/HR/2022/2970/047/C	Concrete	12/07/2022	<0.0022	<0.032	<0.0014	<0.0054	<0.0021	<0.0070
NB7086	TRA/HR/2022/2970/048/C	Concrete	12/07/2022	<0.0035	<0.051	<0.0016	<0.0084	<0.0033	<0.010
NB7087	TRA/HR/2022/2970/049/C	Concrete	12/07/2022	<0.0015	<0.023	<0.00084	<0.0035	<0.0015	<0.0046
NB7088	TRA/HR/2022/2970/050/C	Concrete	12/07/2022	<0.0032	<0.051	<0.0014	<0.0080	0.0065 ± 0.0026	<0.0098
NB7089	TRA/HR/2022/2970/051/C	Concrete	12/07/2022	<0.0035	<0.052	<0.0012	<0.0080	<0.0034	<0.0098
NB7090	TRA/HR/2022/2970/052/C	Concrete	12/07/2022	<0.0032	<0.043	<0.0019	<0.0077	<0.0030	<0.0088
NB7091	TRA/HR/2022/2970/053/C	Concrete	12/07/2022	<0.0024	<0.036	<0.0012	<0.0060	<0.0023	<0.0075
NB7092	TRA/HR/2022/2970/054/C	Concrete	12/07/2022	<0.0027	<0.043	<0.0014	<0.0066	<0.0026	<0.0084
NB7093	TRA/HR/2022/2970/055/C	Concrete	12/07/2022	<0.0017	<0.026	<0.00097	<0.0045	<0.0020	<0.0056
NB7094	TRA/HR/2022/2970/058/C	Concrete	12/07/2022	<0.0022	<0.035	<0.00082	<0.0054	<0.0023	<0.0077

Table 8. Gamma spectrometry for the artificial radionuclides ⁵⁴Mn, ⁵⁹Fe, ⁵⁷Co, ⁵⁸Co, ⁶⁰Co, ⁶⁵Zn. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (1)					
				Mn-54 (Bq/g)	Fe-59 (Bq/g)	Co-57 (Bq/g)	Co-58 (Bq/g)	Co-60 (Bq/g)	Zn-65 (Bq/g)
NB7095	TRA/HR/2022/2970/059/C	Concrete	12/07/2022	<0.0015	<0.024	<0.0012	<0.0039	<0.0015	<0.0049
NB7096	TRA/HR/2022/2970/061/C	Concrete	19/07/2022	<0.0049	<0.055	<0.0017	<0.011	0.152 ± 0.012	<0.014
NB7097	TRA/HR/2022/2970/062/C	Concrete	19/07/2022	<0.0024	<0.027	<0.0011	<0.0057	0.176 ± 0.013	<0.0069
NB7098	TRA/HR/2022/2970/063/C	Concrete	19/07/2022	<0.0018	<0.026	<0.00093	<0.0044	<0.0020	<0.0051
NB7099	TRA/HR/2022/2970/064/C	Concrete	19/07/2022	<0.0019	<0.026	<0.00079	<0.0045	<0.0021	<0.0058
NB7100	TRA/HR/2022/2960/065/C	Concrete	26/07/2022	<0.0033	<0.045	<0.0021	<0.0078	<0.0034	<0.011
NB7101	TRA/HR/2022/2960/067/C	Concrete	26/07/2022	<0.0022	<0.030	<0.0011	<0.0049	<0.0025	<0.0066
NB7102	TRA/HR/2022/2960/068/C	Concrete	26/07/2022	<0.0015	<0.019	<0.00082	<0.0032	<0.0016	<0.0046
NB7103	TRA/HR/2022/2960/070/C	Concrete	26/07/2022	<0.0033	<0.043	<0.0015	<0.0075	<0.0034	<0.0098
NB7104	TRA/HR/2022/2960/071/C	Concrete	26/07/2022	<0.0037	<0.053	<0.0013	<0.0085	<0.0044	<0.012
NB7105	TRA/HR/2022/2960/072/C	Concrete	26/07/2022	<0.0025	<0.031	<0.0016	<0.0056	<0.0024	<0.0070
NB7106	TRA/HR/2022/2960/073/C	Concrete	26/07/2022	<0.0022	<0.029	<0.0011	<0.0050	<0.0022	<0.0061
NB7107	TRA/HR/2022/2960/074/C	Concrete	26/07/2022	<0.0015	<0.017	<0.0008	<0.0032	<0.0014	<0.0040
NB7108	TRA/HR/2022/2960/075/C	Concrete	26/07/2022	<0.0020	<0.023	<0.00099	<0.0043	<0.0021	<0.0056
NB7109	TRA/HR/2022/2960/076/C	Concrete	26/07/2022	<0.0025	<0.035	<0.00085	<0.0052	<0.0026	<0.0075
NB7110	TRA/HR/2022/2960/077/C	Concrete	26/07/2022	<0.0022	<0.027	<0.0014	<0.0046	<0.0021	<0.0063
NB7111	TRA/HR/2022/2960/079/C	Concrete	26/07/2022	<0.0021	<0.030	<0.0011	<0.0049	<0.0024	<0.0064
NB7112	TRA/HR/2022/2960/082/C	Concrete	26/07/2022	<0.0016	<0.021	<0.00083	<0.0031	<0.0016	<0.0047
NB7113	TRA/HR/2022/2960/083/C	Concrete	26/07/2022	<0.0034	<0.044	<0.0014	<0.0076	<0.0034	<0.0099
NB7114	TRA/HR/2022/2960/084/C	Concrete	26/07/2022	<0.0031	<0.044	<0.0010	<0.0070	<0.0035	<0.0093

Table 8. Gamma spectrometry for the artificial radionuclides ^{54}Mn , ^{59}Fe , ^{57}Co , ^{58}Co , ^{60}Co , ^{65}Zn . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (1)					
				Mn-54 (Bq/g)	Fe-59 (Bq/g)	Co-57 (Bq/g)	Co-58 (Bq/g)	Co-60 (Bq/g)	Zn-65 (Bq/g)
NB7115	TRA/HR/2022/2960/085/C	Concrete	26/07/2022	<0.0019	<0.024	<0.0014	<0.0043	<0.0019	<0.0056
NB7116	TRA/HR/2022/2960/086/C	Concrete	26/07/2022	<0.0022	<0.028	<0.0011	<0.0049	<0.0024	<0.0065
NB7117	TRA/HR/2022/2960/087/C	Concrete	26/07/2022	<0.0015	<0.017	<0.00078	<0.0032	<0.0015	<0.0044
NB7118	TRA/HR/2022/2960/088/C	Concrete	26/07/2022	<0.0019	<0.024	<0.00097	<0.0041	<0.0020	<0.0059
NB7119	TRA/HR/2022/2901/089/C	Concrete	05/07/2022	<0.0021	<0.037	<0.0008	<0.0057	<0.0022	<0.0067
NB7120	TRA/HR/2022/2901/090/C	Concrete	05/07/2022	<0.0021	<0.032	<0.0014	<0.0057	<0.0019	<0.0061
NB7121	TRA/HR/2022/2901/091/C	Concrete	05/07/2022	<0.0017	<0.029	<0.00094	<0.0044	<0.0017	<0.0053
NB7122	TRA/HR/2022/2901/092/C	Concrete	05/07/2022	<0.0012	<0.021	<0.00075	<0.0032	<0.0012	<0.0037
NB7123	TRA/HR/2022/2901/093/C	Concrete	05/07/2022	<0.0018	<0.033	<0.00098	<0.0048	<0.0018	<0.0059
NB7124	TRA/HR/2022/2951/094/C	Concrete	05/07/2022	<0.0022	<0.039	<0.00083	<0.0056	<0.0022	<0.0075
NB7125	TRA/HR/2022/2951/095/C	Concrete	05/07/2022	<0.0017	<0.027	<0.0012	<0.0044	<0.0015	<0.0052
NB7126	TRA/HR/2022/2951/096/C	Concrete	05/07/2022	<0.0018	<0.032	<0.00097	<0.0048	<0.0017	<0.0060
NB7127	TRA/HR/2022/2951/097/C	Concrete	05/07/2022	<0.0015	<0.024	<0.00078	<0.0037	<0.0013	<0.0041
NB7128	TRA/HR/2022/2951/098/C	Concrete	05/07/2022	<0.0023	<0.040	<0.0011	<0.0057	<0.0023	<0.0069
NB7129	TRA/HR/2022/2601/099/C	Concrete	21/07/2022	<0.0018	<0.029	<0.00077	<0.0044	<0.0021	<0.0056
NB7130	TRA/HR/2022/2651/104/C	Concrete	25/07/2022	<0.0019	<0.023	<0.0014	<0.0043	<0.0018	<0.0062
NB7131	TRA/HR/2022/2651/105/C	Concrete	25/07/2022	<0.0035	<0.048	<0.0016	<0.0074	<0.0041	<0.011
NB7132	TRA/HR/2022/2602/100/C	Concrete	21/07/2022	<0.0012	<0.016	<0.00069	<0.0027	<0.0012	<0.0034
NB7133	TRA/HR/2022/2603/101/C	Concrete	21/07/2022	<0.0016	<0.024	<0.0009	<0.0038	<0.0017	<0.0054
NB7134	TRA/HR/2022/2651/102/C	Concrete	25/07/2022	<0.0024	<0.031	<0.0008	<0.0050	<0.0025	<0.0067

Table 8. Gamma spectrometry for the artificial radionuclides ^{54}Mn , ^{59}Fe , ^{57}Co , ^{58}Co , ^{60}Co , ^{65}Zn . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (1)					
				Mn-54 (Bq/g)	Fe-59 (Bq/g)	Co-57 (Bq/g)	Co-58 (Bq/g)	Co-60 (Bq/g)	Zn-65 (Bq/g)
NB7135	TRA/HR/2022/2651/103/C	Concrete	25/07/2022	<0.0023	<0.036	<0.0011	<0.0054	<0.0022	<0.0069
NB7136	TRA/HR/2022/2652/111/C	Concrete	25/07/2022	<0.0012	<0.018	<0.00071	<0.0029	<0.0012	<0.0039
NB7137	TRA/HR/2022/2651/106/C	Concrete	25/07/2022	<0.0017	<0.028	<0.00089	<0.0046	<0.0017	<0.0062
NB7138	TRA/HR/2022/2652/107/C	Concrete	23/06/2022	<0.0023	<0.057	<0.00089	<0.0074	<0.0023	<0.0079
NB7139	TRA/HR/2022/2652/108/C	Concrete	25/07/2022	<0.0019	<0.028	<0.0013	<0.0053	<0.0018	<0.0061
NB7140	TRA/HR/2022/2652/109/C	Concrete	25/07/2022	<0.0023	<0.039	<0.0012	<0.0059	<0.0024	<0.0069
NB7141	TRA/HR/2022/2652/110/C	Concrete	25/07/2022	<0.0014	<0.022	<0.00076	<0.0036	<0.0013	<0.0045
NB7142	TRA/HR/2022/2653/114/C	Concrete	25/07/2022	<0.0031	<0.055	<0.0013	<0.0080	<0.0031	<0.0090
NB7143	TRA/HR/2022/2653/112/C	Concrete	25/07/2022	<0.0020	<0.034	<0.00079	<0.0053	<0.0021	<0.0062
NB7144	TRA/HR/2022/2653/113/C	Concrete	25/07/2022	<0.0019	<0.032	<0.0013	<0.0050	<0.0020	<0.0066
NB7145	TRA/HR/2022/2653/115/C	Concrete	25/07/2022	<0.0015	<0.024	<0.00081	<0.0036	<0.0014	<0.0047
NB7146	TRA/HR/2022/2653/116/C	Concrete	25/07/2022	<0.0016	<0.027	<0.00092	<0.0041	<0.0017	<0.0057
NB7147	TRA/HR/2022/2507/117/C	Concrete	20/07/2022	<0.0019	<0.033	<0.00075	<0.0050	<0.0021	<0.0070
NB7148	TRA/HR/2022/2507/118/C	Concrete	20/07/2022	<0.0032	<0.049	<0.0018	<0.0087	<0.0030	<0.0096
NB7149	TRA/HR/2022/2508/119/C	Concrete	20/07/2022	<0.0011	<0.019	<0.0007	<0.0029	<0.0010	<0.0036
NB7150	TRA/HR/2022/2508/120/C	Concrete	20/07/2022	<0.0020	<0.036	<0.0010	<0.0057	<0.0020	<0.0066
NB7151	TRA/HR/2022/2509/121/C	Concrete	20/07/2022	<0.0034	<0.057	<0.0011	<0.0087	<0.0032	<0.011
NB7152	TRA/HR/2022/2509/122/C	Concrete	20/07/2022	<0.0030	<0.050	<0.0018	<0.0083	<0.0027	<0.0098
NB7153	TRA/HR/2022/2751/123/C	Concrete	21/07/2022	<0.0022	<0.038	<0.0012	<0.0061	<0.0021	<0.0073
NB7154	TRA/HR/2022/2751/124/C	Concrete	21/07/2022	<0.0020	<0.036	<0.0011	<0.0052	<0.0019	<0.0066

Table 8. Gamma spectrometry for the artificial radionuclides ^{54}Mn , ^{59}Fe , ^{57}Co , ^{58}Co , ^{60}Co , ^{65}Zn . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (1)					
				Mn-54 (Bq/g)	Fe-59 (Bq/g)	Co-57 (Bq/g)	Co-58 (Bq/g)	Co-60 (Bq/g)	Zn-65 (Bq/g)
NB7155	TRA/HR/2022/2752/125/C	Concrete	21/07/2022	<0.0019	<0.035	<0.0011	<0.0049	<0.0021	<0.0058
NB7156	TRA/HR/2022/2752/126/C	Concrete	21/07/2022	<0.0015	<0.024	<0.00079	<0.0035	<0.0014	<0.0044
NB7157	TRA/HR/2022/2753/127/C	Concrete	21/07/2022	<0.0018	<0.031	<0.00097	<0.0048	<0.0018	<0.0060
NB7158	TRA/HR/2022/2753/128/C	Concrete	21/07/2022	<0.0037	<0.059	<0.0012	<0.0094	<0.0034	<0.011
NB7159	TRA/HR/2022/2670/180/C	Concrete	28/07/2022	<0.0017	<0.025	<0.00089	<0.0041	<0.0017	<0.0050
NB7160	TRA/HR/2022/2610/181/C	Concrete	28/07/2022	<0.0017	<0.024	<0.0013	<0.0041	<0.0015	<0.0052
NB7161	TRA/HR/2022/2610/182/C	Concrete	28/07/2022	<0.0019	<0.031	<0.00097	<0.0047	<0.0019	<0.0057
NB7162	TRA/HR/2022/2610/183/C	Concrete	28/07/2022	<0.0012	<0.019	<0.00074	<0.0029	<0.0012	<0.0040
NB7163	TRA/HR/2022/2610/184/C	Concrete	28/07/2022	<0.0015	<0.024	<0.00087	<0.0039	<0.0015	<0.0051
NB7164	TRA/HR/2022/2605/190/C	Concrete	26/05/2022	<0.0020	<0.081	<0.00085	<0.0084	<0.0019	<0.0072
NB7165	TRA/HR/2022/2605/191/C	Concrete	26/05/2022	<0.0023	<0.086	<0.0016	<0.0093	<0.0019	<0.0073
NB7166	TRA/HR/2022/2605/194/C	Concrete	26/05/2022	<0.0023	<0.090	<0.0012	<0.0099	<0.0021	<0.0073
NB7167	TRA/HR/2022/2605/195/C	Concrete	26/05/2022	<0.0020	<0.076	<0.00083	<0.0076	<0.0018	<0.0063
NB7168	TRA/HR/2022/2605/196/C	Concrete	26/05/2022	<0.0020	<0.070	<0.0012	<0.0079	<0.0019	<0.0074
NB7169	TRA/HR/2022/2605/198/C	Concrete	26/05/2022	<0.0021	<0.083	<0.00089	<0.0080	<0.0020	<0.0069
NB7170	TRA/HR/2022/2605/201/C	Concrete	01/06/2022	<0.0020	<0.065	<0.0015	<0.0079	<0.0017	<0.0066
NB7171	TRA/HR/2022/2605/203/C	Concrete	01/06/2022	<0.0014	<0.049	<0.00084	<0.0051	<0.0012	<0.0045
NB7172	TRA/HR/2022/2605/204/C	Concrete	01/06/2022	<0.0013	<0.042	<0.0008	<0.0045	<0.00096	<0.0044
NB7173	TRA/HR/2022/2605/205/C	Concrete	01/06/2022	<0.0043	<0.17	<0.0014	<0.017	<0.0041	<0.014
NB7174	TRA/HR/2022/2605/206/C	Concrete	01/06/2022	<0.0023	<0.081	<0.00094	<0.0085	<0.0022	<0.0076

Table 8. Gamma spectrometry for the artificial radionuclides ^{54}Mn , ^{59}Fe , ^{57}Co , ^{58}Co , ^{60}Co , ^{65}Zn . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (1)					
				Mn-54 (Bq/g)	Fe-59 (Bq/g)	Co-57 (Bq/g)	Co-58 (Bq/g)	Co-60 (Bq/g)	Zn-65 (Bq/g)
NB7175	TRA/HR/2022/2514/208/C	Concrete	01/06/2022	<0.0026	<0.096	<0.0013	<0.011	<0.0024	<0.0090
NB7176	TRA/HR/2022/2512/209/C	Concrete	01/06/2022	<0.0036	<0.13	<0.0017	<0.015	<0.0033	<0.013
NB7177	TRA/HR/2022/2771/211/C	Concrete	08/06/2022	<0.0020	<0.063	<0.0011	<0.0074	<0.0019	<0.0068
NB7178	TRA/HR/2022/2771/213/C	Concrete	08/06/2022	<0.0020	<0.061	<0.0015	<0.0075	<0.0018	<0.0070
NB7179	TRA/HR/2022/2771/215/C	Concrete	08/06/2022	<0.0014	<0.038	<0.00087	<0.0050	<0.0012	<0.0046
NB7180	TRA/HR/2022/2771/217/C	Concrete	08/06/2022	<0.0024	<0.084	<0.0012	<0.0094	<0.0023	<0.0088
NB7181	TRA/HR/2022/2771/219/C	Concrete	09/06/2022	<0.0025	<0.083	<0.00095	<0.0084	<0.0025	<0.0092
NB7182	TRA/HR/2022/2771/221/C	Concrete	09/06/2022	<0.0033	<0.097	<0.0020	<0.013	<0.0028	<0.011
NB7183	TRA/HR/2022/2771/222/C	Concrete	09/06/2022	<0.0013	<0.039	<0.00084	<0.0047	<0.0012	<0.0043
NB7184	TRA/HR/2022/2771/223/C	Concrete	09/06/2022	<0.0026	<0.078	<0.0014	<0.0096	<0.0023	<0.0085
NB7185	TRA/HR/2022/2771/224/C	Concrete	09/06/2022	<0.0021	<0.070	<0.0011	<0.0077	<0.0021	<0.0068
NB7186	TRA/HR/2022/2771/227/C	Concrete	09/06/2022	<0.0024	<0.087	<0.00092	<0.0089	<0.0025	<0.0084
NB7187	TRA/HR/2022/2771/228/C	Concrete	09/06/2022	<0.0012	<0.038	<0.00077	<0.0045	<0.0011	<0.0044
NB7188	TRA/HR/2022/2771/229/C	Concrete	09/06/2022	<0.0022	<0.074	<0.0011	<0.0078	<0.0020	<0.0080
NC4099	TRA-HR-2022-1751-AS1-C	Concrete	27/04/2023	<0.0022	<0.035	<0.00098	<0.0061	<0.0023	<0.0066
NC4100	TRA-HR-2022-1751-AS2-C	Concrete	27/04/2023	<0.0023	<0.035	<0.0012	<0.0057	<0.0022	<0.0063
NC4101	TRA-HR-2022-1752-AS3-C	Concrete	27/04/2023	<0.0017	<0.029	<0.0011	<0.0047	<0.0018	<0.0058
NC4102	TRA-HR-2022-1752-AS4-C	Concrete	27/04/2023	<0.0026	<0.039	<0.0013	<0.0063	<0.0024	<0.0079
NC4103	TRA-HR-2022-1901-AS5-C	Concrete	27/04/2023	<0.0027	<0.043	<0.00099	<0.0069	<0.0027	<0.0079
NC4104	TRA-HR-2022-1951-AS7-C	Concrete	27/04/2023	<0.0027	<0.042	<0.0013	<0.0065	<0.0027	<0.0073

Table 8. Gamma spectrometry for the artificial radionuclides ^{54}Mn , ^{59}Fe , ^{57}Co , ^{58}Co , ^{60}Co , ^{65}Zn . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (1)					
				Mn-54 (Bq/g)	Fe-59 (Bq/g)	Co-57 (Bq/g)	Co-58 (Bq/g)	Co-60 (Bq/g)	Zn-65 (Bq/g)
NC4105	TRA-HR-2022-2752-AS8-C	Concrete	09/05/2023	<0.0019	<0.025	<0.0012	<0.0046	<0.0018	<0.006
NC4106	TRA-HR-2022-2071-AS12-C	Concrete	09/05/2023	<0.0037	<0.047	<0.0018	<0.0089	<0.0037	<0.013
NC4115	TRA-HR-2022-1901-AS6-C	Concrete	27/04/2023	<0.0028	<0.045	<0.0011	<0.0076	<0.0029	<0.0087
NC4116	TRA-HR-2022-2771-AS9-C	Concrete	09/05/2023	<0.0022	<0.03	<0.0012	<0.0051	<0.0023	<0.0064
NC4119	TRA-HR-2022-2970-AS10-C	Concrete	11/05/2023	<0.0044	<0.047	<0.016	<0.011	0.508 ± 0.027	<0.013
NC4122	TRA-HR-2022-2970-AS11-C	Concrete	09/05/2023	<0.0028	<0.035	<0.0014	<0.0063	0.0264 ± 0.0027	<0.0092
NC4125	TRA-HR-2022-2802.north.debris	Debris	09/05/2023	<0.021	<0.24	<0.005	<0.05	5.5 ± 0.29	<0.059
NC4126	TRA-HR-2022-2802.east.debris	Debris	09/05/2023	<0.026	<0.29	<0.0075	<0.06	9.07 ± 0.47	<0.069
NC4127	TRA-HR-2022-2802.south.debris	Debris	09/05/2023	<0.012	<0.13	<0.0052	<0.027	3.23 ± 0.17	<0.031
NC4128	TRA-HR-2022-2802.west.debris	Debris	09/05/2023	<0.0094	<0.11	<0.0039	<0.022	1.47 ± 0.077	<0.027
NC1086	Bulk Paint Sample 1	Paint (flakes)	01/01/2023	<0.0047	<0.034	<0.0016	<0.0075	<0.0054	<0.012
NC1087	Bulk Paint Sample 2	Paint (flakes)	01/01/2023	<0.0048	<0.034	<0.0016	<0.0075	<0.0052	<0.012

Table 9. Gamma spectrometry for the artificial radionuclides ⁹⁵Zr, ⁹⁴Nb, ⁹⁵Nb, ¹⁰⁶Ru, ¹⁰⁶Rh, ^{108m}Ag. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (2)					
				Zr-95 (Bq/g)	Nb-94 (Bq/g)	Nb-95 (Bq/g)	Ru-106 (Bq/g)	Rh-106 (Bq/g)	Ag-108m (Bq/g)
NB6528	TRA/HR/2022/1E91/001/F	Roofing felt	29/06/2022	<0.12	<0.016	<0.22	<0.18	<0.18	<0.018
NB6529	TRA/HR/2022/1E91/003/F	Roofing felt	29/06/2022	<0.048	<0.0068	<0.091	<0.078	<0.078	<0.0069
NB6530	TRA/HR/2022/1E91/004/F	Roofing felt	29/06/2022	<0.082	<0.013	<0.16	<0.13	<0.13	<0.012
NB6531	TRA/HR/2022/1E91/005/F	Roofing felt	29/06/2022	<0.041	<0.0061	<0.080	<0.063	<0.063	<0.0059
NB6532	TRA/HR/2022/1E91/007/F	Roofing felt	29/06/2022	<0.073	<0.011	<0.13	<0.11	<0.11	<0.011
NB6533	TRA/HR/2022/1E91/008/F	Roofing felt	29/06/2022	<0.088	<0.013	<0.17	<0.13	<0.13	<0.013
NB6534	TRA/HR/2022/1E91/009/F	Roofing felt	29/06/2022	<0.062	<0.0086	<0.12	<0.10	<0.10	<0.0092
NB6535	TRA/HR/2022/1E91/011/F	Roofing felt	04/07/2022	<0.033	<0.0052	<0.057	<0.051	<0.051	<0.0050
NB6536	TRA/HR/2022/1E91/013/F	Roofing felt	04/07/2022	<0.062	<0.0087	<0.11	<0.10	<0.10	<0.011
NB6537	TRA/HR/2022/1E91/014/F	Roofing felt	04/07/2022	<0.039	<0.0058	<0.065	<0.060	<0.060	<0.0057
NB6538	TRA/HR/2022/1E91/015/F	Roofing felt	04/07/2022	<0.061	<0.0090	<0.11	<0.098	<0.098	<0.0087
NB6539	TRA/HR/2022/1E91/016/F	Roofing felt	04/07/2022	<0.087	<0.013	<0.16	<0.14	<0.14	<0.013
NB6540	TRA/HR/2022/1E91/018/F	Roofing felt	04/07/2022	<0.047	<0.0074	<0.090	<0.082	<0.082	<0.0073
NB6541	TRA/HR/2022/1E91/019/F	Roofing felt	04/07/2022	<0.037	<0.0048	<0.063	<0.058	<0.058	<0.0053
NB6542	TRA/HR/2022/1E91/020/F	Roofing felt	04/07/2022	<0.077	<0.012	<0.14	<0.12	<0.12	<0.012
NB6543	TRA/HR/2022/1751/133/M	Metal	28/06/2022	<0.017	<0.0022	<0.030	<0.024	<0.024	<0.0023
NB6544	TRA/HR/2022/1651/134/M	Metal	28/06/2022	<0.029	<0.0040	<0.053	<0.040	<0.040	<0.0039
NB6545	TRA/HR/2022/1610/135/P	Paint (flakes)	24/06/2022	<0.20	<0.026	<0.42	<0.29	<0.29	<0.027
NB6546	TRA/HR/2022/1610/137/P	Paint (flakes)	24/06/2022	<0.18	<0.026	<0.36	<0.28	<0.28	<0.026
NB6547	TRA/HR/2022/1610/141/P	Paint (flakes)	24/06/2022	<0.36	<0.049	<0.74	<0.50	<0.51	<0.045

Table 9. Gamma spectrometry for the artificial radionuclides ⁹⁵Zr, ⁹⁴Nb, ⁹⁵Nb, ¹⁰⁶Ru, ¹⁰⁶Rh, ^{108m}Ag. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (2)					
				Zr-95 (Bq/g)	Nb-94 (Bq/g)	Nb-95 (Bq/g)	Ru-106 (Bq/g)	Rh-106 (Bq/g)	Ag-108m (Bq/g)
NB6548	TRA/HR/2022/1610/145/P	Paint (flakes)	24/06/2022	<0.23	<0.028	<0.44	<0.30	<0.30	<0.027
NB6549	TRA/HR/2022/1610/147/P	Paint (flakes)	27/06/2022	<0.24	<0.034	<0.46	<0.36	<0.36	<0.034
NB6550	TRA/HR/2022/1610/151/P	Paint (flakes)	27/06/2022	<0.28	<0.037	<0.53	<0.36	<0.36	<0.039
NB6551	TRA/HR/2022/1610/154/P	Paint (flakes)	27/06/2022	<0.20	<0.026	<0.35	<0.29	<0.29	<0.027
NB6552	TRA/HR/2022/1610/157/P	Paint (flakes)	27/06/2022	<0.33	<0.045	<0.65	<0.50	<0.50	<0.046
NB6553	TRA/HR/2022/1610/159/P	Paint (flakes)	27/06/2022	<0.30	<0.044	<0.55	<0.40	<0.40	<0.042
NB6554	TRA/HR/2022/1610/160/P	Paint (flakes)	27/06/2022	<0.22	<0.029	<0.42	<0.32	<0.32	<0.029
NB6555	TRA/HR/2022/1610/163/P	Paint (flakes)	28/06/2022	<0.26	<0.035	<0.48	<0.36	<0.37	<0.034
NB6556	TRA/HR/2022/1610/167/P	Paint (flakes)	28/06/2022	<0.13	<0.015	<0.24	<0.18	<0.18	<0.016
NB6557	TRA/HR/2022/1670/170/P	Paint (flakes)	28/06/2022	<0.16	<0.023	<0.31	<0.25	<0.25	<0.023
NB6558	TRA/HR/2022/1670/172/P	Paint (flakes)	28/06/2022	<0.31	<0.042	<0.58	<0.45	<0.45	<0.041
NB6559	TRA/HR/2022/1670/174/P	Paint (flakes)	28/06/2022	<0.33	<0.046	<0.64	<0.52	<0.52	<0.048
NB6560	TRA/HR/2022/1670/175/P	Paint (flakes)	28/06/2022	<1.1	<0.15	<2.0	<1.6	<1.6	<0.14
NB6561	TRA/HR/2022/1670/176/P	Paint (flakes)	29/06/2022	<0.18	<0.026	<0.34	<0.28	<0.28	<0.026
NB6562	TRA/HR/2022/1670/177/P	Paint (flakes)	29/06/2022	<0.41	<0.058	<0.80	<0.63	<0.63	<0.058
NB6563	TRA/HR/2022/1670/178/P	Paint (flakes)	29/06/2022	<0.87	<0.12	<1.5	<1.3	<1.3	<0.12
NB6564	TRA/HR/2022/1670/179/P	Paint (flakes)	29/06/2022	<0.38	<0.051	<0.72	<0.56	<0.56	<0.052
NB6565	TRA/HR/2022/1605/232/O	Oil / Grease	11/07/2022	<0.073	<0.012	<0.14	<0.12	<0.13	<0.012
NB6566	TRA/HR/2022/1605/233/O	Oil / Grease	11/07/2022	<0.12	<0.019	<0.20	<0.18	<0.18	<0.020
NB6567	TRA/HR/2022/1740/234/O	Oil / Grease	11/07/2022	<0.21	<0.031	<0.35	<0.35	<0.35	<0.032

Table 9. Gamma spectrometry for the artificial radionuclides ⁹⁵Zr, ⁹⁴Nb, ⁹⁵Nb, ¹⁰⁶Ru, ¹⁰⁶Rh, ^{108m}Ag. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (2)					
				Zr-95 (Bq/g)	Nb-94 (Bq/g)	Nb-95 (Bq/g)	Ru-106 (Bq/g)	Rh-106 (Bq/g)	Ag-108m (Bq/g)
NB6568	TRA/HR/2022/1740/235/O	Oil / Grease	11/07/2022	<0.020	<0.0030	<0.035	<0.035	<0.035	<0.0034
NB6569	TRA/HR/2022/1E91/021/C	Concrete	22/06/2022	<0.012	<0.0014	<0.024	<0.016	<0.016	<0.0016
NB6570	TRA/HR/2022/1E91/024/C	Concrete	22/06/2022	<0.013	<0.0017	<0.027	<0.018	<0.018	<0.0018
NB6571	TRA/HR/2022/1E91/025/C	Concrete	22/06/2022	<0.0099	<0.0012	<0.020	<0.013	<0.014	<0.0014
NB6572	TRA/HR/2022/1E91/026/C	Concrete	22/06/2022	<0.016	<0.0017	<0.031	<0.019	<0.019	<0.0021
NB6573	TRA/HR/2022/1E91/028/C	Concrete	22/06/2022	<0.018	<0.0024	<0.037	<0.025	<0.025	<0.0024
NB6574	TRA/HR/2022/1E91/032/C	Concrete	22/06/2022	<0.014	<0.0018	<0.030	<0.019	<0.019	<0.0021
NB6575	TRA/HR/2022/1E91/033/C	Concrete	22/06/2022	<0.012	<0.0014	<0.024	<0.017	<0.017	<0.0019
NB6576	TRA/HR/2022/1E91/034/C	Concrete	22/06/2022	<0.011	<0.0013	<0.023	<0.016	<0.016	<0.0017
NB6577	TRA/HR/2022/1E91/037/C	Concrete	22/06/2022	<0.014	<0.0018	<0.029	<0.019	<0.019	<0.0020
NB6578	TRA/HR/2022/1E91/038/C	Concrete	22/06/2022	<0.014	<0.0018	<0.031	<0.019	<0.019	<0.0020
NB6579	TRA/HR/2022/1960/041/C	Concrete	14/06/2022	<0.027	<0.0030	<0.060	<0.034	<0.034	<0.0032
NB6580	TRA/HR/2022/1960/042/C	Concrete	14/06/2022	<0.022	<0.0023	<0.050	<0.027	<0.027	<0.0026
NB6581	TRA/HR/2022/1960/044/C	Concrete	14/06/2022	<0.015	<0.0017	<0.035	<0.019	<0.019	<0.0019
NB6582	TRA/HR/2022/1960/046/C	Concrete	14/06/2022	<0.017	<0.0020	<0.038	<0.020	<0.020	<0.0022
NB6583	TRA/HR/2022/1960/047/C	Concrete	14/06/2022	<0.017	<0.0018	<0.037	<0.021	<0.021	<0.0020
NB6584	TRA/HR/2022/1960/049/C	Concrete	14/06/2022	<0.018	<0.0019	<0.044	<0.021	<0.021	<0.0022
NB6585	TRA/HR/2022/1960/050/C	Concrete	14/06/2022	<0.025	<0.0026	<0.057	<0.030	<0.030	<0.0028
NB6586	TRA/HR/2022/1960/051/C	Concrete	16/06/2022	<0.016	<0.0019	<0.035	<0.019	<0.019	<0.0020
NB6587	TRA/HR/2022/1960/052/C	Concrete	16/06/2022	<0.017	<0.0019	<0.037	<0.022	<0.022	<0.0021

Table 9. Gamma spectrometry for the artificial radionuclides ⁹⁵Zr, ⁹⁴Nb, ⁹⁵Nb, ¹⁰⁶Ru, ¹⁰⁶Rh, ^{108m}Ag. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (2)					
				Zr-95 (Bq/g)	Nb-94 (Bq/g)	Nb-95 (Bq/g)	Ru-106 (Bq/g)	Rh-106 (Bq/g)	Ag-108m (Bq/g)
NB6588	TRA/HR/2022/1960/053/C	Concrete	16/06/2022	<0.020	<0.0022	<0.043	<0.025	<0.025	<0.0025
NB6589	TRA/HR/2022/1960/054/C	Concrete	16/06/2022	<0.016	<0.0019	<0.038	<0.020	<0.020	<0.0020
NB6590	TRA/HR/2022/1960/055/C	Concrete	16/06/2022	<0.027	<0.0034	<0.059	<0.032	<0.032	<0.0031
NB6591	TRA/HR/2022/1960/056/C	Concrete	16/06/2022	<0.020	<0.0023	<0.045	<0.026	<0.026	<0.0025
NB6592	TRA/HR/2022/1960/057/C	Concrete	16/06/2022	<0.026	<0.0031	<0.061	<0.033	<0.033	<0.0033
NB6593	TRA/HR/2022/1960/058/C	Concrete	16/06/2022	<0.022	<0.0028	<0.054	<0.028	<0.028	<0.0027
NB6594	TRA/HR/2022/1960/060/C	Concrete	16/06/2022	<0.016	<0.0019	<0.037	<0.020	<0.020	<0.0021
NB6595	TRA/HR/2022/1960/061/C	Concrete	24/06/2022	<0.0097	<0.0012	<0.022	<0.015	<0.015	<0.0016
NB6596	TRA/HR/2022/1960/062/C	Concrete	24/06/2022	<0.015	<0.0019	<0.031	<0.021	<0.021	<0.0021
NB6597	TRA/HR/2022/1960/063/C	Concrete	24/06/2022	<0.019	<0.0024	<0.039	<0.024	<0.024	<0.0024
NB6598	TRA/HR/2022/1960/064/C	Concrete	24/06/2022	<0.015	<0.0018	<0.031	<0.019	<0.019	<0.0020
NB6599	TRA/HR/2022/1970/065/C	Concrete	21/06/2022	<0.023	<0.0028	<0.049	<0.030	<0.030	<0.0029
NB6600	TRA/HR/2022/1970/066/C	Concrete	21/06/2022	<0.015	<0.0018	<0.030	<0.018	<0.018	<0.0020
NB6601	TRA/HR/2022/1970/068/C	Concrete	21/06/2022	<0.020	<0.0025	<0.044	<0.027	<0.027	<0.0026
NB6602	TRA/HR/2022/1970/071/C	Concrete	21/06/2022	<0.016	<0.0018	<0.031	<0.019	<0.019	<0.0019
NB6603	TRA/HR/2022/1970/072/C	Concrete	21/06/2022	<0.014	<0.0016	<0.029	<0.019	<0.019	<0.0019
NB6604	TRA/HR/2022/1970/073/C	Concrete	21/06/2022	<0.023	<0.0027	<0.047	<0.029	<0.029	<0.0028
NB6605	TRA/HR/2022/1970/074/C	Concrete	21/06/2022	<0.014	<0.0017	<0.030	<0.018	<0.018	<0.0018
NB6606	TRA/HR/2022/1970/077/C	Concrete	21/06/2022	<0.014	<0.0016	<0.029	<0.017	<0.017	<0.0017
NB6607	TRA/HR/2022/1970/078/C	Concrete	21/06/2022	<0.014	<0.0016	<0.031	<0.019	<0.019	<0.0019

Table 9. Gamma spectrometry for the artificial radionuclides ⁹⁵Zr, ⁹⁴Nb, ⁹⁵Nb, ¹⁰⁶Ru, ¹⁰⁶Rh, ^{108m}Ag. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (2)					
				Zr-95 (Bq/g)	Nb-94 (Bq/g)	Nb-95 (Bq/g)	Ru-106 (Bq/g)	Rh-106 (Bq/g)	Ag-108m (Bq/g)
NB6608	TRA/HR/2022/1970/079/C	Concrete	21/06/2022	<0.016	<0.0019	<0.034	<0.021	<0.021	<0.0021
NB6609	TRA/HR/2022/1970/080/C	Concrete	21/06/2022	<0.016	<0.0019	<0.031	<0.021	<0.021	<0.0020
NB6610	TRA/HR/2022/1970/082/C	Concrete	21/06/2022	<0.014	<0.0018	<0.033	<0.018	<0.018	<0.0019
NB6611	TRA/HR/2022/1970/083/C	Concrete	21/06/2022	<0.014	<0.0018	<0.031	<0.019	<0.019	<0.0019
NB6612	TRA/HR/2022/1970/084/C	Concrete	21/06/2022	<0.0090	<0.0011	<0.021	<0.013	<0.013	<0.0013
NB6613	TRA/HR/2022/1970/085/C	Concrete	23/06/2022	<0.0083	<0.00094	<0.018	<0.011	<0.011	<0.0012
NB6614	TRA/HR/2022/1970/086/C	Concrete	23/06/2022	<0.0084	<0.0011	<0.018	<0.011	<0.011	<0.0012
NB6615	TRA/HR/2022/1970/087/C	Concrete	23/06/2022	<0.0094	<0.0013	<0.021	<0.013	<0.013	<0.0014
NB6616	TRA/HR/2022/1970/088/C	Concrete	23/06/2022	<0.016	<0.0021	<0.033	<0.020	<0.020	<0.0023
NB6617	TRA/HR/2022/1901/089/C	Concrete	23/05/2022	<0.032	<0.0028	<0.084	<0.034	<0.034	<0.0030
NB6618	TRA/HR/2022/1901/090/C	Concrete	23/05/2022	<0.021	<0.0017	<0.056	<0.019	<0.019	<0.0020
NB6619	TRA/HR/2022/1901/091/C	Concrete	23/05/2022	<0.027	<0.0023	<0.077	<0.027	<0.027	<0.0025
NB6620	TRA/HR/2022/1901/092/C	Concrete	23/05/2022	<0.032	<0.0029	<0.092	<0.030	<0.030	<0.0031
NB6621	TRA/HR/2022/1901/093/C	Concrete	23/05/2022	<0.032	<0.0028	<0.084	<0.032	<0.032	<0.0030
NB6622	TRA/HR/2022/1951/094/C	Concrete	23/05/2022	<0.023	<0.0019	<0.062	<0.022	<0.022	<0.0021
NB6623	TRA/HR/2022/1951/095/C	Concrete	23/05/2022	<0.019	<0.0016	<0.055	<0.021	<0.021	<0.0020
NB6624	TRA/HR/2022/1951/096/C	Concrete	23/05/2022	<0.019	<0.0017	<0.058	<0.021	<0.021	<0.0020
NB6625	TRA/HR/2022/1951/097/C	Concrete	23/05/2022	<0.012	<0.0011	<0.037	<0.013	<0.013	<0.0012
NB6626	TRA/HR/2022/1951/098/C	Concrete	23/05/2022	<0.019	<0.0016	<0.057	<0.020	<0.020	<0.0019
NB6627	TRA/HR/2022/1601/099/C	Concrete	24/05/2022	<0.030	<0.0027	<0.082	<0.029	<0.029	<0.0027

Table 9. Gamma spectrometry for the artificial radionuclides ⁹⁵Zr, ⁹⁴Nb, ⁹⁵Nb, ¹⁰⁶Ru, ¹⁰⁶Rh, ^{108m}Ag. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (2)					
				Zr-95 (Bq/g)	Nb-94 (Bq/g)	Nb-95 (Bq/g)	Ru-106 (Bq/g)	Rh-106 (Bq/g)	Ag-108m (Bq/g)
NB6628	TRA/HR/2022/1602/104/C	Concrete	24/05/2022	<0.017	<0.0015	<0.049	<0.018	<0.018	<0.0018
NB6629	TRA/HR/2022/1603/105/C	Concrete	24/05/2022	<0.019	<0.0016	<0.051	<0.019	<0.019	<0.0018
NB6630	TRA/HR/2022/1651/100/C	Concrete	22/06/2022	<0.0073	<0.00084	<0.016	<0.011	<0.011	<0.00095
NB6631	TRA/HR/2022/1651/101/C	Concrete	22/06/2022	<0.011	<0.0013	<0.024	<0.014	<0.014	<0.0015
NB6632	TRA/HR/2022/1651/102/C	Concrete	22/06/2022	<0.013	<0.0015	<0.027	<0.016	<0.016	<0.0016
NB6633	TRA/HR/2022/1651/103/C	Concrete	22/06/2022	<0.012	<0.0014	<0.025	<0.016	<0.016	<0.0016
NB6634	TRA/HR/2022/1762/111/C	Concrete	24/05/2022	<0.018	<0.0015	<0.049	<0.019	<0.019	<0.0017
NB6635	TRA/HR/2022/1652/106/C	Concrete	23/06/2022	<0.014	<0.0016	<0.028	<0.017	<0.017	<0.0017
NB6636	TRA/HR/2022/1652/107/C	Concrete	23/06/2022	<0.016	<0.0018	<0.030	<0.019	<0.019	<0.0020
NB6637	TRA/HR/2022/1761/108/C	Concrete	23/05/2022	<0.013	<0.0011	<0.035	<0.012	<0.012	<0.0012
NB6638	TRA/HR/2022/1652/109/C	Concrete	23/06/2022	<0.011	<0.0012	<0.022	<0.013	<0.013	<0.0014
NB6639	TRA/HR/2022/1652/110/C	Concrete	23/06/2022	<0.012	<0.0015	<0.027	<0.016	<0.016	<0.0019
NB6640	TRA/HR/2022/1763/114/C	Concrete	24/05/2022	<0.016	<0.0014	<0.047	<0.017	<0.017	<0.0018
NB6641	TRA/HR/2022/1653/112/C	Concrete	23/06/2022	<0.013	<0.0015	<0.027	<0.016	<0.016	<0.0017
NB6642	TRA/HR/2022/1653/113/C	Concrete	23/06/2022	<0.011	<0.0014	<0.024	<0.015	<0.015	<0.0018
NB6643	TRA/HR/2022/1653/115/C	Concrete	23/06/2022	<0.0068	<0.00081	<0.016	<0.0096	<0.0096	<0.00088
NB6644	TRA/HR/2022/1653/116/C	Concrete	23/06/2022	<0.0099	<0.0013	<0.022	<0.014	<0.014	<0.0013
NB6645	TRA/HR/2022/1507/117/C	Concrete	25/05/2022	<0.017	<0.0015	<0.047	<0.017	<0.017	<0.0017
NB6646	TRA/HR/2022/1507/118/C	Concrete	25/05/2022	<0.026	<0.0023	<0.070	<0.028	<0.028	<0.0025
NB6647	TRA/HR/2022/1508/119/C	Concrete	25/05/2022	<0.011	<0.00087	<0.029	<0.011	<0.011	<0.00094

Table 9. Gamma spectrometry for the artificial radionuclides ⁹⁵Zr, ⁹⁴Nb, ⁹⁵Nb, ¹⁰⁶Ru, ¹⁰⁶Rh, ^{108m}Ag. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (2)					
				Zr-95 (Bq/g)	Nb-94 (Bq/g)	Nb-95 (Bq/g)	Ru-106 (Bq/g)	Rh-106 (Bq/g)	Ag-108m (Bq/g)
NB6648	TRA/HR/2022/1508/120/C	Concrete	25/05/2022	<0.012	<0.0011	<0.032	<0.012	<0.013	<0.0012
NB6649	TRA/HR/2022/1509/121/C	Concrete	25/05/2022	<0.011	<0.00092	<0.033	<0.011	<0.011	<0.0012
NB6650	TRA/HR/2022/1509/122/C	Concrete	25/05/2022	<0.015	<0.0013	<0.039	<0.015	<0.015	<0.0015
NB6651	TRA/HR/2022/1751/123/C	Concrete	25/05/2022	<0.016	<0.0014	<0.044	<0.015	<0.015	<0.0016
NB6652	TRA/HR/2022/1751/124/C	Concrete	25/05/2022	<0.020	<0.0016	<0.053	<0.020	<0.020	<0.0018
NB6653	TRA/HR/2022/1752/125/C	Concrete	25/05/2022	<0.016	<0.0014	<0.048	<0.017	<0.017	<0.0016
NB6654	TRA/HR/2022/1752/126/C	Concrete	25/05/2022	<0.016	<0.0014	<0.044	<0.016	<0.016	<0.0018
NB6655	TRA/HR/2022/1753/127/C	Concrete	25/05/2022	<0.018	<0.0016	<0.051	<0.018	<0.018	<0.0018
NB6656	TRA/HR/2022/1753/128/C	Concrete	25/05/2022	<0.019	<0.0016	<0.051	<0.018	<0.018	<0.0017
NB6657	TRA/HR/2022/1610/180/C	Concrete	29/06/2022	<0.012	<0.0015	<0.024	<0.015	<0.015	<0.0017
NB6658	TRA/HR/2022/1610/181/C	Concrete	29/06/2022	<0.011	<0.0013	<0.021	<0.015	<0.015	<0.0015
NB6659	TRA/HR/2022/1610/182/C	Concrete	29/06/2022	<0.015	<0.0019	<0.029	<0.019	<0.019	<0.0022
NB6660	TRA/HR/2022/1610/183/C	Concrete	29/06/2022	<0.010	<0.0013	<0.022	<0.015	<0.015	<0.0015
NB6661	TRA/HR/2022/1610/184/C	Concrete	29/06/2022	<0.011	<0.0014	<0.022	<0.017	<0.017	<0.0016
NB6662	TRA/HR/2022/1605/190/C	Concrete	26/05/2022	<0.014	<0.0013	<0.037	<0.013	<0.014	<0.0013
NB6663	TRA/HR/2022/1605/191/C	Concrete	26/05/2022	<0.017	<0.0016	<0.048	<0.016	<0.016	<0.0017
NB6664	TRA/HR/2022/1605/192/C	Concrete	26/05/2022	<0.017	<0.0015	<0.047	<0.018	<0.018	<0.0017
NB6665	TRA/HR/2022/1605/193/C	Concrete	26/05/2022	<0.015	<0.0013	<0.044	<0.015	<0.015	<0.0016
NB6666	TRA/HR/2022/1605/195/C	Concrete	26/05/2022	<0.013	<0.0013	<0.040	<0.014	<0.014	<0.0016
NB6667	TRA/HR/2022/1605/196/C	Concrete	26/05/2022	<0.011	<0.0011	<0.034	<0.013	<0.013	<0.0012

Table 9. Gamma spectrometry for the artificial radionuclides ⁹⁵Zr, ⁹⁴Nb, ⁹⁵Nb, ¹⁰⁶Ru, ¹⁰⁶Rh, ^{108m}Ag. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (2)					
				Zr-95 (Bq/g)	Nb-94 (Bq/g)	Nb-95 (Bq/g)	Ru-106 (Bq/g)	Rh-106 (Bq/g)	Ag-108m (Bq/g)
NB6668	TRA/HR/2022/1605/197/C	Concrete	26/05/2022	<0.015	<0.0014	<0.039	<0.015	<0.015	<0.0014
NB6669	TRA/HR/2022/1605/198/C	Concrete	26/05/2022	<0.017	<0.0016	<0.045	<0.016	<0.016	<0.0016
NB6670	TRA/HR/2022/1605/201/C	Concrete	01/06/2022	<0.019	<0.0018	<0.051	<0.021	<0.021	<0.0020
NB6671	TRA/HR/2022/1605/203/C	Concrete	01/06/2022	<0.013	<0.0012	<0.034	<0.014	<0.014	<0.0013
NB6672	TRA/HR/2022/1605/204/C	Concrete	01/06/2022	<0.017	<0.0017	<0.046	<0.018	<0.018	<0.0018
NB6673	TRA/HR/2022/1605/205/C	Concrete	01/06/2022	<0.014	<0.0013	<0.036	<0.016	<0.016	<0.0016
NB6674	TRA/HR/2022/1605/206/C	Concrete	01/06/2022	<0.013	<0.0012	<0.034	<0.014	<0.014	<0.0016
NB6675	TRA/HR/2022/1605/209/C	Concrete	01/06/2022	<0.020	<0.0019	<0.047	<0.020	<0.020	<0.0018
NB6676	TRA/HR/2022/1771/211/C	Concrete	08/06/2022	<0.016	<0.0016	<0.039	<0.019	<0.019	<0.0019
NB6677	TRA/HR/2022/1771/212/C	Concrete	08/06/2022	<0.014	<0.0014	<0.036	<0.016	<0.017	<0.0017
NB6678	TRA/HR/2022/1754/213/C	Concrete	08/06/2022	<0.014	<0.0014	<0.035	<0.017	<0.017	<0.0017
NB6679	TRA/HR/2022/1754/215/C	Concrete	08/06/2022	<0.016	<0.0016	<0.039	<0.018	<0.018	<0.0018
NB6680	TRA/HR/2022/1771/218/C	Concrete	08/06/2022	<0.014	<0.0014	<0.036	<0.015	<0.015	<0.0016
NB6681	TRA/HR/2022/1755/219/C	Concrete	09/06/2022	<0.018	<0.0017	<0.044	<0.020	<0.020	<0.0021
NB6682	TRA/HR/2022/1771/220/C	Concrete	09/06/2022	<0.012	<0.0012	<0.031	<0.015	<0.015	<0.0014
NB6683	TRA/HR/2022/1771/221/C	Concrete	09/06/2022	<0.012	<0.0012	<0.031	<0.015	<0.015	<0.0014
NB6684	TRA/HR/2022/1771/223/C	Concrete	09/06/2022	<0.0097	<0.00099	<0.024	<0.012	<0.012	<0.0012
NB6685	TRA/HR/2022/1771/226/C	Concrete	09/06/2022	<0.016	<0.0016	<0.040	<0.020	<0.020	<0.0019
NB6686	TRA/HR/2022/1755/227/C	Concrete	09/06/2022	<0.011	<0.0010	<0.026	<0.012	<0.012	<0.0012
NB7034	TRA/HR/2022/2E91/001/F	Roofing felt	07/07/2022	<0.080	<0.0096	<0.16	<0.11	<0.11	<0.0092

Table 9. Gamma spectrometry for the artificial radionuclides ⁹⁵Zr, ⁹⁴Nb, ⁹⁵Nb, ¹⁰⁶Ru, ¹⁰⁶Rh, ^{108m}Ag. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (2)					
				Zr-95 (Bq/g)	Nb-94 (Bq/g)	Nb-95 (Bq/g)	Ru-106 (Bq/g)	Rh-106 (Bq/g)	Ag-108m (Bq/g)
NB7035	TRA/HR/2022/2E91/003/F	Roofing felt	07/07/2022	<0.054	<0.0074	<0.11	<0.069	<0.069	<0.0067
NB7036	TRA/HR/2022/2E91/004/F	Roofing felt	07/07/2022	<0.052	<0.0071	<0.12	<0.071	<0.072	<0.0072
NB7037	TRA/HR/2022/2E91/005/F	Roofing felt	07/07/2022	<0.030	<0.0038	<0.064	<0.045	<0.046	<0.0038
NB7038	TRA/HR/2022/2E91/007/F	Roofing felt	07/07/2022	<0.070	<0.0086	<0.15	<0.095	<0.095	<0.0089
NB7039	TRA/HR/2022/2E91/008/F	Roofing felt	07/07/2022	<0.023	<0.0031	<0.052	<0.034	<0.034	<0.0032
NB7040	TRA/HR/2022/2E91/009/F	Roofing felt	07/07/2022	<0.024	<0.0032	<0.052	<0.036	<0.036	<0.0034
NB7041	TRA/HR/2022/2E91/011/F	Roofing felt	07/07/2022	<0.031	<0.0039	<0.061	<0.045	<0.045	<0.0042
NB7042	TRA/HR/2022/2E91/013/F	Roofing felt	07/07/2022	<0.044	<0.0054	<0.087	<0.056	<0.057	<0.0056
NB7043	TRA/HR/2022/2E91/014/F	Roofing felt	07/07/2022	<0.035	<0.0045	<0.073	<0.051	<0.051	<0.0046
NB7044	TRA/HR/2022/2E91/015/F	Roofing felt	07/07/2022	<0.044	<0.0053	<0.088	<0.060	<0.060	<0.0061
NB7045	TRA/HR/2022/2E91/016/F	Roofing felt	07/07/2022	<0.060	<0.0077	<0.13	<0.084	<0.084	<0.0078
NB7046	TRA/HR/2022/2E91/018/F	Roofing felt	07/07/2022	<0.076	<0.0094	<0.15	<0.12	<0.12	<0.0099
NB7047	TRA/HR/2022/2E91/019/F	Roofing felt	07/07/2022	<0.050	<0.0060	<0.099	<0.074	<0.074	<0.0060
NB7048	TRA/HR/2022/2E91/020/F	Roofing felt	07/07/2022	<0.045	<0.0058	<0.093	<0.067	<0.067	<0.0060
NB7049	TRA/HR/2022/2610/136/P	Paint (flakes)	27/07/2022	<0.20	<0.030	<0.32	<0.29	<0.29	<0.030
NB7050	TRA/HR/2022/2610/139/P	Paint (flakes)	27/07/2022	<0.16	<0.025	<0.30	<0.25	<0.26	<0.026
NB7051	TRA/HR/2022/2610/142/P	Paint (flakes)	27/07/2022	<0.23	<0.037	<0.40	<0.39	<0.39	<0.037
NB7052	TRA/HR/2022/2610/144/P	Paint (flakes)	27/07/2022	<0.15	<0.024	<0.25	<0.25	<0.25	<0.022
NB7053	TRA/HR/2022/2610/146/P	Paint (flakes)	27/07/2022	<0.17	<0.026	<0.29	<0.31	<0.31	<0.028
NB7054	TRA/HR/2022/2610/149/P	Paint (flakes)	27/07/2022	<0.16	<0.026	<0.26	<0.27	<0.27	<0.026

Table 9. Gamma spectrometry for the artificial radionuclides ⁹⁵Zr, ⁹⁴Nb, ⁹⁵Nb, ¹⁰⁶Ru, ¹⁰⁶Rh, ^{108m}Ag. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (2)					
				Zr-95 (Bq/g)	Nb-94 (Bq/g)	Nb-95 (Bq/g)	Ru-106 (Bq/g)	Rh-106 (Bq/g)	Ag-108m (Bq/g)
NB7055	TRA/HR/2022/2610/152/P	Paint (flakes)	27/07/2022	<0.29	<0.042	<0.49	<0.42	<0.42	<0.044
NB7056	TRA/HR/2022/2610/154/P	Paint (flakes)	27/07/2022	<0.22	<0.034	<0.36	<0.38	<0.38	<0.035
NB7057	TRA/HR/2022/2610/158/P	Paint (flakes)	27/07/2022	<0.24	<0.041	<0.42	<0.40	<0.40	<0.038
NB7058	TRA/HR/2022/2610/161/P	Paint (flakes)	27/07/2022	<0.19	<0.029	<0.31	<0.31	<0.31	<0.028
NB7059	TRA/HR/2022/2610/163/P	Paint (flakes)	27/07/2022	<0.14	<0.022	<0.24	<0.24	<0.24	<0.025
NB7060	TRA/HR/2022/2610/166/P	Paint (flakes)	27/07/2022	<0.29	<0.049	<0.48	<0.47	<0.47	<0.044
NB7061	TRA/HR/2022/2610/169/P	Paint (flakes)	27/07/2022	<0.31	<0.045	<0.50	<0.48	<0.48	<0.049
NB7062	TRA/HR/2022/2670/171/P	Paint (flakes)	28/07/2022	<0.32	<0.045	<0.54	<0.46	<0.46	<0.048
NB7063	TRA/HR/2022/2670/173/P	Paint (flakes)	28/07/2022	<0.31	<0.053	<0.48	<0.50	<0.50	<0.045
NB7064	TRA/HR/2022/2670/175/P	Paint (flakes)	28/07/2022	<0.48	<0.069	<0.78	<0.71	<0.71	<0.076
NB7065	TRA/HR/2022/2670/176/P	Paint (flakes)	28/07/2022	<0.67	<0.11	<1.3	<1.2	<1.2	<0.11
NB7066	TRA/HR/2022/2670/177/P	Paint (flakes)	28/07/2022	<0.45	<0.076	<0.74	<0.69	<0.69	<0.069
NB7067	TRA/HR/2022/2670/178/P	Paint (flakes)	28/07/2022	<0.40	<0.065	<0.66	<0.65	<0.65	<0.061
NB7068	TRA/HR/2022/2670/179/P	Paint (flakes)	28/07/2022	<0.68	<0.11	<1.2	<1.2	<1.2	<0.11
NB7069	TRA/HR/2022/2652/132/M	Metal	04/07/2022	<0.021	<0.0026	<0.041	<0.029	<0.029	<0.0027
NB7070	TRA/HR/2022/2652/134/M	Metal	04/07/2022	<0.075	<0.0085	<0.16	<0.10	<0.10	<0.0094
NB7071	TRA/HR/2022/2E91/022/C	Concrete	07/07/2022	<0.011	<0.0013	<0.023	<0.015	<0.015	<0.0015
NB7072	TRA/HR/2022/2E91/024/C	Concrete	07/07/2022	<0.012	<0.0015	<0.027	<0.017	<0.017	<0.0019
NB7073	TRA/HR/2022/2E91/027/C	Concrete	07/07/2022	<0.0081	<0.00091	<0.017	<0.011	<0.011	<0.0011
NB7074	TRA/HR/2022/2E91/028/C	Concrete	07/07/2022	<0.0082	<0.00096	<0.017	<0.011	<0.011	<0.0011

Table 9. Gamma spectrometry for the artificial radionuclides ⁹⁵Zr, ⁹⁴Nb, ⁹⁵Nb, ¹⁰⁶Ru, ¹⁰⁶Rh, ^{108m}Ag. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (2)					
				Zr-95 (Bq/g)	Nb-94 (Bq/g)	Nb-95 (Bq/g)	Ru-106 (Bq/g)	Rh-106 (Bq/g)	Ag-108m (Bq/g)
NB7075	TRA/HR/2022/2E91/030/C	Concrete	07/07/2022	<0.0065	<0.00077	<0.015	<0.0088	<0.0088	<0.00088
NB7076	TRA/HR/2022/2E91/033/C	Concrete	07/07/2022	<0.011	<0.0015	<0.024	<0.015	<0.015	<0.0016
NB7077	TRA/HR/2022/2E91/034/C	Concrete	07/07/2022	<0.011	<0.0014	<0.025	<0.015	<0.015	<0.0016
NB7078	TRA/HR/2022/2E91/036/C	Concrete	07/07/2022	<0.012	<0.0014	<0.025	<0.015	<0.015	<0.0018
NB7079	TRA/HR/2022/2E91/037/C	Concrete	07/07/2022	<0.012	<0.0014	<0.025	<0.015	<0.015	<0.0016
NB7080	TRA/HR/2022/2E91/039/C	Concrete	07/07/2022	<0.012	<0.0015	<0.026	<0.016	<0.016	<0.0017
NB7081	TRA/HR/2022/2970/041/C	Concrete	12/07/2022	<0.020	<0.0028	<0.039	<0.030	<0.030	<0.0031
NB7082	TRA/HR/2022/2970/043/C	Concrete	12/07/2022	<0.0097	<0.0015	<0.019	<0.016	<0.016	<0.0016
NB7083	TRA/HR/2022/2970/044/C	Concrete	12/07/2022	<0.017	<0.0025	<0.033	<0.028	<0.028	<0.0027
NB7084	TRA/HR/2022/2970/045/C	Concrete	12/07/2022	<0.024	<0.0035	<0.040	<0.034	<0.034	<0.0035
NB7085	TRA/HR/2022/2970/047/C	Concrete	12/07/2022	<0.011	<0.0016	<0.023	<0.018	<0.018	<0.0018
NB7086	TRA/HR/2022/2970/048/C	Concrete	12/07/2022	<0.018	<0.0025	<0.033	<0.026	<0.026	<0.0028
NB7087	TRA/HR/2022/2970/049/C	Concrete	12/07/2022	<0.0074	<0.0011	<0.014	<0.012	<0.012	<0.0012
NB7088	TRA/HR/2022/2970/050/C	Concrete	12/07/2022	<0.016	<0.0024	<0.030	<0.025	<0.025	<0.0025
NB7089	TRA/HR/2022/2970/051/C	Concrete	12/07/2022	<0.018	<0.0024	<0.032	<0.026	<0.026	<0.0028
NB7090	TRA/HR/2022/2970/052/C	Concrete	12/07/2022	<0.017	<0.0024	<0.031	<0.027	<0.027	<0.0027
NB7091	TRA/HR/2022/2970/053/C	Concrete	12/07/2022	<0.012	<0.0017	<0.024	<0.019	<0.019	<0.0021
NB7092	TRA/HR/2022/2970/054/C	Concrete	12/07/2022	<0.014	<0.0020	<0.027	<0.021	<0.021	<0.0021
NB7093	TRA/HR/2022/2970/055/C	Concrete	12/07/2022	<0.0087	<0.0013	<0.016	<0.014	<0.014	<0.0015
NB7094	TRA/HR/2022/2970/058/C	Concrete	12/07/2022	<0.011	<0.0015	<0.020	<0.016	<0.016	<0.0017

Table 9. Gamma spectrometry for the artificial radionuclides ⁹⁵Zr, ⁹⁴Nb, ⁹⁵Nb, ¹⁰⁶Ru, ¹⁰⁶Rh, ^{108m}Ag. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (2)					
				Zr-95 (Bq/g)	Nb-94 (Bq/g)	Nb-95 (Bq/g)	Ru-106 (Bq/g)	Rh-106 (Bq/g)	Ag-108m (Bq/g)
NB7095	TRA/HR/2022/2970/059/C	Concrete	12/07/2022	<0.0081	<0.0012	<0.016	<0.013	<0.013	<0.0015
NB7096	TRA/HR/2022/2970/061/C	Concrete	19/07/2022	<0.022	<0.0038	<0.038	<0.034	<0.034	<0.0037
NB7097	TRA/HR/2022/2970/062/C	Concrete	19/07/2022	<0.012	<0.0020	<0.021	<0.018	<0.018	<0.0019
NB7098	TRA/HR/2022/2970/063/C	Concrete	19/07/2022	<0.0090	<0.0013	<0.016	<0.014	<0.014	<0.0015
NB7099	TRA/HR/2022/2970/064/C	Concrete	19/07/2022	<0.0094	<0.0014	<0.016	<0.014	<0.014	<0.0015
NB7100	TRA/HR/2022/2960/065/C	Concrete	26/07/2022	<0.017	<0.0027	<0.028	<0.028	<0.028	<0.0029
NB7101	TRA/HR/2022/2960/067/C	Concrete	26/07/2022	<0.011	<0.0017	<0.017	<0.018	<0.018	<0.0019
NB7102	TRA/HR/2022/2960/068/C	Concrete	26/07/2022	<0.0068	<0.0011	<0.012	<0.012	<0.012	<0.0012
NB7103	TRA/HR/2022/2960/070/C	Concrete	26/07/2022	<0.016	<0.0024	<0.026	<0.027	<0.027	<0.0028
NB7104	TRA/HR/2022/2960/071/C	Concrete	26/07/2022	<0.017	<0.0029	<0.029	<0.028	<0.028	<0.0031
NB7105	TRA/HR/2022/2960/072/C	Concrete	26/07/2022	<0.012	<0.0018	<0.020	<0.020	<0.020	<0.0022
NB7106	TRA/HR/2022/2960/073/C	Concrete	26/07/2022	<0.0091	<0.0016	<0.016	<0.017	<0.017	<0.0020
NB7107	TRA/HR/2022/2960/074/C	Concrete	26/07/2022	<0.0062	<0.0010	<0.011	<0.011	<0.011	<0.0011
NB7108	TRA/HR/2022/2960/075/C	Concrete	26/07/2022	<0.0087	<0.0014	<0.015	<0.014	<0.014	<0.0019
NB7109	TRA/HR/2022/2960/076/C	Concrete	26/07/2022	<0.011	<0.0019	<0.018	<0.018	<0.018	<0.0020
NB7110	TRA/HR/2022/2960/077/C	Concrete	26/07/2022	<0.0097	<0.0015	<0.017	<0.017	<0.017	<0.0020
NB7111	TRA/HR/2022/2960/079/C	Concrete	26/07/2022	<0.011	<0.0017	<0.017	<0.018	<0.018	<0.0019
NB7112	TRA/HR/2022/2960/082/C	Concrete	26/07/2022	<0.0068	<0.0011	<0.012	<0.012	<0.012	<0.0014
NB7113	TRA/HR/2022/2960/083/C	Concrete	26/07/2022	<0.016	<0.0027	<0.025	<0.026	<0.026	<0.0027
NB7114	TRA/HR/2022/2960/084/C	Concrete	26/07/2022	<0.014	<0.0025	<0.023	<0.023	<0.023	<0.0025

Table 9. Gamma spectrometry for the artificial radionuclides ⁹⁵Zr, ⁹⁴Nb, ⁹⁵Nb, ¹⁰⁶Ru, ¹⁰⁶Rh, ^{108m}Ag. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (2)					
				Zr-95 (Bq/g)	Nb-94 (Bq/g)	Nb-95 (Bq/g)	Ru-106 (Bq/g)	Rh-106 (Bq/g)	Ag-108m (Bq/g)
NB7115	TRA/HR/2022/2960/085/C	Concrete	26/07/2022	<0.0089	<0.0014	<0.015	<0.016	<0.016	<0.0017
NB7116	TRA/HR/2022/2960/086/C	Concrete	26/07/2022	<0.010	<0.0018	<0.018	<0.019	<0.019	<0.0020
NB7117	TRA/HR/2022/2960/087/C	Concrete	26/07/2022	<0.0064	<0.0011	<0.011	<0.011	<0.011	<0.0012
NB7118	TRA/HR/2022/2960/088/C	Concrete	26/07/2022	<0.0086	<0.0013	<0.015	<0.015	<0.015	<0.0016
NB7119	TRA/HR/2022/2901/089/C	Concrete	05/07/2022	<0.012	<0.0015	<0.023	<0.015	<0.015	<0.0019
NB7120	TRA/HR/2022/2901/090/C	Concrete	05/07/2022	<0.012	<0.0015	<0.024	<0.017	<0.017	<0.0017
NB7121	TRA/HR/2022/2901/091/C	Concrete	05/07/2022	<0.0099	<0.0013	<0.019	<0.014	<0.014	<0.0014
NB7122	TRA/HR/2022/2901/092/C	Concrete	05/07/2022	<0.0068	<0.00087	<0.014	<0.0096	<0.0096	<0.00097
NB7123	TRA/HR/2022/2901/093/C	Concrete	05/07/2022	<0.011	<0.0013	<0.021	<0.014	<0.014	<0.0015
NB7124	TRA/HR/2022/2951/094/C	Concrete	05/07/2022	<0.012	<0.0016	<0.024	<0.016	<0.016	<0.0019
NB7125	TRA/HR/2022/2951/095/C	Concrete	05/07/2022	<0.0093	<0.0013	<0.019	<0.015	<0.015	<0.0014
NB7126	TRA/HR/2022/2951/096/C	Concrete	05/07/2022	<0.010	<0.0013	<0.021	<0.015	<0.015	<0.0015
NB7127	TRA/HR/2022/2951/097/C	Concrete	05/07/2022	<0.0075	<0.00097	<0.016	<0.011	<0.011	<0.0012
NB7128	TRA/HR/2022/2951/098/C	Concrete	05/07/2022	<0.013	<0.0017	<0.024	<0.017	<0.018	<0.0018
NB7129	TRA/HR/2022/2601/099/C	Concrete	21/07/2022	<0.0087	<0.0015	<0.016	<0.014	<0.014	<0.0016
NB7130	TRA/HR/2022/2651/104/C	Concrete	25/07/2022	<0.0087	<0.0014	<0.016	<0.016	<0.016	<0.0019
NB7131	TRA/HR/2022/2651/105/C	Concrete	25/07/2022	<0.017	<0.0027	<0.028	<0.027	<0.027	<0.0030
NB7132	TRA/HR/2022/2602/100/C	Concrete	21/07/2022	<0.0053	<0.00083	<0.010	<0.0092	<0.0092	<0.00098
NB7133	TRA/HR/2022/2603/101/C	Concrete	21/07/2022	<0.0078	<0.0012	<0.015	<0.013	<0.013	<0.0016
NB7134	TRA/HR/2022/2651/102/C	Concrete	25/07/2022	<0.011	<0.0017	<0.017	<0.017	<0.017	<0.0018

Table 9. Gamma spectrometry for the artificial radionuclides ⁹⁵Zr, ⁹⁴Nb, ⁹⁵Nb, ¹⁰⁶Ru, ¹⁰⁶Rh, ^{108m}Ag. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (2)					
				Zr-95 (Bq/g)	Nb-94 (Bq/g)	Nb-95 (Bq/g)	Ru-106 (Bq/g)	Rh-106 (Bq/g)	Ag-108m (Bq/g)
NB7135	TRA/HR/2022/2651/103/C	Concrete	25/07/2022	<0.012	<0.0016	<0.023	<0.017	<0.017	<0.0017
NB7136	TRA/HR/2022/2652/111/C	Concrete	25/07/2022	<0.0063	<0.00077	<0.012	<0.0088	<0.0088	<0.00095
NB7137	TRA/HR/2022/2651/106/C	Concrete	25/07/2022	<0.0092	<0.0013	<0.017	<0.013	<0.013	<0.0014
NB7138	TRA/HR/2022/2652/107/C	Concrete	23/06/2022	<0.016	<0.0015	<0.044	<0.017	<0.017	<0.0019
NB7139	TRA/HR/2022/2652/108/C	Concrete	25/07/2022	<0.0093	<0.0014	<0.021	<0.016	<0.016	<0.0016
NB7140	TRA/HR/2022/2652/109/C	Concrete	25/07/2022	<0.013	<0.0017	<0.026	<0.019	<0.019	<0.0020
NB7141	TRA/HR/2022/2652/110/C	Concrete	25/07/2022	<0.0074	<0.00099	<0.015	<0.011	<0.011	<0.0011
NB7142	TRA/HR/2022/2653/114/C	Concrete	25/07/2022	<0.017	<0.0023	<0.031	<0.023	<0.023	<0.0025
NB7143	TRA/HR/2022/2653/112/C	Concrete	25/07/2022	<0.011	<0.0015	<0.021	<0.015	<0.015	<0.0016
NB7144	TRA/HR/2022/2653/113/C	Concrete	25/07/2022	<0.011	<0.0015	<0.022	<0.017	<0.017	<0.0016
NB7145	TRA/HR/2022/2653/115/C	Concrete	25/07/2022	<0.0077	<0.0011	<0.016	<0.012	<0.012	<0.0011
NB7146	TRA/HR/2022/2653/116/C	Concrete	25/07/2022	<0.0086	<0.0012	<0.017	<0.013	<0.013	<0.0015
NB7147	TRA/HR/2022/2507/117/C	Concrete	20/07/2022	<0.011	<0.0014	<0.021	<0.014	<0.014	<0.0015
NB7148	TRA/HR/2022/2507/118/C	Concrete	20/07/2022	<0.018	<0.0021	<0.035	<0.026	<0.026	<0.0025
NB7149	TRA/HR/2022/2508/119/C	Concrete	20/07/2022	<0.0057	<0.00075	<0.012	<0.0083	<0.0083	<0.00081
NB7150	TRA/HR/2022/2508/120/C	Concrete	20/07/2022	<0.012	<0.0015	<0.022	<0.016	<0.016	<0.0017
NB7151	TRA/HR/2022/2509/121/C	Concrete	20/07/2022	<0.018	<0.0024	<0.038	<0.024	<0.024	<0.0025
NB7152	TRA/HR/2022/2509/122/C	Concrete	20/07/2022	<0.017	<0.0022	<0.034	<0.024	<0.024	<0.0024
NB7153	TRA/HR/2022/2751/123/C	Concrete	21/07/2022	<0.012	<0.0017	<0.026	<0.018	<0.018	<0.0018
NB7154	TRA/HR/2022/2751/124/C	Concrete	21/07/2022	<0.011	<0.0014	<0.021	<0.016	<0.016	<0.0016

Table 9. Gamma spectrometry for the artificial radionuclides ⁹⁵Zr, ⁹⁴Nb, ⁹⁵Nb, ¹⁰⁶Ru, ¹⁰⁶Rh, ^{108m}Ag. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (2)					
				Zr-95 (Bq/g)	Nb-94 (Bq/g)	Nb-95 (Bq/g)	Ru-106 (Bq/g)	Rh-106 (Bq/g)	Ag-108m (Bq/g)
NB7155	TRA/HR/2022/2752/125/C	Concrete	21/07/2022	<0.012	<0.0014	<0.023	<0.015	<0.015	<0.0017
NB7156	TRA/HR/2022/2752/126/C	Concrete	21/07/2022	<0.0072	<0.0011	<0.017	<0.011	<0.011	<0.0012
NB7157	TRA/HR/2022/2753/127/C	Concrete	21/07/2022	<0.0097	<0.0013	<0.020	<0.014	<0.014	<0.0016
NB7158	TRA/HR/2022/2753/128/C	Concrete	21/07/2022	<0.019	<0.0025	<0.037	<0.027	<0.027	<0.0029
NB7159	TRA/HR/2022/2670/180/C	Concrete	28/07/2022	<0.0082	<0.0012	<0.016	<0.012	<0.012	<0.0014
NB7160	TRA/HR/2022/2610/181/C	Concrete	28/07/2022	<0.0086	<0.0012	<0.018	<0.014	<0.014	<0.0017
NB7161	TRA/HR/2022/2610/182/C	Concrete	28/07/2022	<0.0096	<0.0013	<0.019	<0.014	<0.014	<0.0017
NB7162	TRA/HR/2022/2610/183/C	Concrete	28/07/2022	<0.0062	<0.00085	<0.013	<0.0092	<0.0092	<0.00097
NB7163	TRA/HR/2022/2610/184/C	Concrete	28/07/2022	<0.0078	<0.0011	<0.016	<0.012	<0.012	<0.0015
NB7164	TRA/HR/2022/2605/190/C	Concrete	26/05/2022	<0.019	<0.0013	<0.059	<0.016	<0.016	<0.0014
NB7165	TRA/HR/2022/2605/191/C	Concrete	26/05/2022	<0.022	<0.0015	<0.070	<0.019	<0.019	<0.0019
NB7166	TRA/HR/2022/2605/194/C	Concrete	26/05/2022	<0.021	<0.0015	<0.072	<0.018	<0.018	<0.0017
NB7167	TRA/HR/2022/2605/195/C	Concrete	26/05/2022	<0.018	<0.0013	<0.058	<0.015	<0.015	<0.0016
NB7168	TRA/HR/2022/2605/196/C	Concrete	26/05/2022	<0.018	<0.0013	<0.058	<0.015	<0.015	<0.0016
NB7169	TRA/HR/2022/2605/198/C	Concrete	26/05/2022	<0.020	<0.0014	<0.063	<0.015	<0.015	<0.0016
NB7170	TRA/HR/2022/2605/201/C	Concrete	01/06/2022	<0.019	<0.0013	<0.057	<0.017	<0.017	<0.0017
NB7171	TRA/HR/2022/2605/203/C	Concrete	01/06/2022	<0.012	<0.00083	<0.039	<0.011	<0.011	<0.0011
NB7172	TRA/HR/2022/2605/204/C	Concrete	01/06/2022	<0.011	<0.00078	<0.034	<0.0097	<0.0098	<0.00085
NB7173	TRA/HR/2022/2605/205/C	Concrete	01/06/2022	<0.034	<0.0027	<0.11	<0.030	<0.030	<0.0028
NB7174	TRA/HR/2022/2605/206/C	Concrete	01/06/2022	<0.018	<0.0014	<0.063	<0.017	<0.017	<0.0017

Table 9. Gamma spectrometry for the artificial radionuclides ⁹⁵Zr, ⁹⁴Nb, ⁹⁵Nb, ¹⁰⁶Ru, ¹⁰⁶Rh, ^{108m}Ag. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (2)					
				Zr-95 (Bq/g)	Nb-94 (Bq/g)	Nb-95 (Bq/g)	Ru-106 (Bq/g)	Rh-106 (Bq/g)	Ag-108m (Bq/g)
NB7175	TRA/HR/2022/2514/208/C	Concrete	01/06/2022	<0.022	<0.0017	<0.071	<0.020	<0.020	<0.0018
NB7176	TRA/HR/2022/2512/209/C	Concrete	01/06/2022	<0.031	<0.0025	<0.095	<0.028	<0.028	<0.0027
NB7177	TRA/HR/2022/2771/211/C	Concrete	08/06/2022	<0.015	<0.0013	<0.047	<0.015	<0.015	<0.0016
NB7178	TRA/HR/2022/2771/213/C	Concrete	08/06/2022	<0.016	<0.0013	<0.049	<0.017	<0.017	<0.0019
NB7179	TRA/HR/2022/2771/215/C	Concrete	08/06/2022	<0.011	<0.00082	<0.033	<0.010	<0.011	<0.0012
NB7180	TRA/HR/2022/2771/217/C	Concrete	08/06/2022	<0.021	<0.0016	<0.056	<0.019	<0.019	<0.0018
NB7181	TRA/HR/2022/2771/219/C	Concrete	09/06/2022	<0.020	<0.0015	<0.060	<0.019	<0.019	<0.0017
NB7182	TRA/HR/2022/2771/221/C	Concrete	09/06/2022	<0.028	<0.0023	<0.077	<0.026	<0.026	<0.0025
NB7183	TRA/HR/2022/2771/222/C	Concrete	09/06/2022	<0.0097	<0.0008	<0.030	<0.011	<0.011	<0.0012
NB7184	TRA/HR/2022/2771/223/C	Concrete	09/06/2022	<0.020	<0.0017	<0.060	<0.020	<0.020	<0.0022
NB7185	TRA/HR/2022/2771/224/C	Concrete	09/06/2022	<0.018	<0.0014	<0.053	<0.017	<0.017	<0.0018
NB7186	TRA/HR/2022/2771/227/C	Concrete	09/06/2022	<0.020	<0.0017	<0.057	<0.019	<0.019	<0.0018
NB7187	TRA/HR/2022/2771/228/C	Concrete	09/06/2022	<0.011	<0.00075	<0.031	<0.0096	<0.0096	<0.0011
NB7188	TRA/HR/2022/2771/229/C	Concrete	09/06/2022	<0.017	<0.0014	<0.052	<0.016	<0.016	<0.0017
NC4099	TRA-HR-2022-1751-AS1-C	Concrete	27/04/2023	<0.012	<0.0019	<0.023	<0.018	<0.018	<0.0019
NC4100	TRA-HR-2022-1751-AS2-C	Concrete	27/04/2023	<0.012	<0.0016	<0.023	<0.018	<0.018	<0.0019
NC4101	TRA-HR-2022-1752-AS3-C	Concrete	27/04/2023	<0.0095	<0.0014	<0.019	<0.015	<0.015	<0.0016
NC4102	TRA-HR-2022-1752-AS4-C	Concrete	27/04/2023	<0.014	<0.0019	<0.026	<0.02	<0.02	<0.002
NC4103	TRA-HR-2022-1901-AS5-C	Concrete	27/04/2023	<0.014	<0.002	<0.026	<0.021	<0.021	<0.0022
NC4104	TRA-HR-2022-1951-AS7-C	Concrete	27/04/2023	<0.013	<0.0018	<0.027	<0.02	<0.02	<0.002

Table 9. Gamma spectrometry for the artificial radionuclides ⁹⁵Zr, ⁹⁴Nb, ⁹⁵Nb, ¹⁰⁶Ru, ¹⁰⁶Rh, ^{108m}Ag. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (2)					
				Zr-95 (Bq/g)	Nb-94 (Bq/g)	Nb-95 (Bq/g)	Ru-106 (Bq/g)	Rh-106 (Bq/g)	Ag-108m (Bq/g)
NC4105	TRA-HR-2022-2752-AS8-C	Concrete	09/05/2023	<0.0091	<0.0015	<0.015	<0.015	<0.015	<0.0017
NC4106	TRA-HR-2022-2071-AS12-C	Concrete	09/05/2023	<0.018	<0.0026	<0.031	<0.028	<0.028	<0.003
NC4115	TRA-HR-2022-1901-AS6-C	Concrete	27/04/2023	<0.016	<0.0021	<0.027	<0.022	<0.022	<0.0024
NC4116	TRA-HR-2022-2771-AS9-C	Concrete	09/05/2023	<0.011	<0.0017	<0.018	<0.017	<0.017	<0.0019
NC4119	TRA-HR-2022-2970-AS10-C	Concrete	11/05/2023	<0.019	<0.0037	<0.031	<0.03	<0.03	<0.0033
NC4122	TRA-HR-2022-2970-AS11-C	Concrete	09/05/2023	<0.014	<0.0021	<0.024	<0.022	<0.022	<0.0023
NC4125	TRA-HR-2022-2802.north.debris	Debris	09/05/2023	<0.091	<0.018	<0.15	<0.13	<0.13	0.0305 ± 0.005
NC4126	TRA-HR-2022-2802.east.debris	Debris	09/05/2023	<0.11	<0.022	<0.19	<0.17	<0.17	0.0635 ± 0.0067
NC4127	TRA-HR-2022-2802.south.debris	Debris	09/05/2023	<0.05	<0.0095	<0.082	<0.076	<0.076	0.0283 ± 0.0033
NC4128	TRA-HR-2022-2802.west.debris	Debris	09/05/2023	<0.041	<0.008	<0.067	<0.062	<0.062	0.0164 ± 0.0029
NC1086	Bulk Paint Sample 1	Paint (flakes)	01/01/2023	<0.015	<0.0041	<0.015	<0.039	<0.039	<0.0041
NC1087	Bulk Paint Sample 2	Paint (flakes)	01/01/2023	<0.014	<0.0040	<0.015	<0.038	<0.038	<0.0039

Table 10. Gamma spectrometry for the artificial radionuclides ^{110m}Ag , ^{124}Sb , ^{125}Sb , ^{129}I , ^{131}I , ^{134}Cs . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (3)					
				Ag-110m (Bq/g)	Sb-124 (Bq/g)	Sb-125 (Bq/g)	I-129 (Bq/g)	I-131 (Bq/g)	Cs-134 (Bq/g)
NB6528	TRA/HR/2022/1E91/001/F	Roofing felt	29/06/2022	<0.034	<0.20	<0.093	<0.12	<1200	<0.023
NB6529	TRA/HR/2022/1E91/003/F	Roofing felt	29/06/2022	<0.013	<0.085	<0.038	<0.048	<480	<0.0092
NB6530	TRA/HR/2022/1E91/004/F	Roofing felt	29/06/2022	<0.022	<0.14	<0.061	<0.083	<840	<0.016
NB6531	TRA/HR/2022/1E91/005/F	Roofing felt	29/06/2022	<0.011	<0.071	<0.031	<0.042	<430	<0.0080
NB6532	TRA/HR/2022/1E91/007/F	Roofing felt	29/06/2022	<0.021	<0.12	<0.055	<0.069	<700	<0.014
NB6533	TRA/HR/2022/1E91/008/F	Roofing felt	29/06/2022	<0.023	<0.14	<0.066	<0.090	<920	<0.018
NB6534	TRA/HR/2022/1E91/009/F	Roofing felt	29/06/2022	<0.019	<0.11	<0.045	<0.054	<580	<0.012
NB6535	TRA/HR/2022/1E91/011/F	Roofing felt	04/07/2022	<0.0096	<0.055	<0.028	<0.030	<220	<0.0066
NB6536	TRA/HR/2022/1E91/013/F	Roofing felt	04/07/2022	<0.018	<0.12	<0.046	<0.057	<400	<0.013
NB6537	TRA/HR/2022/1E91/014/F	Roofing felt	04/07/2022	<0.012	<0.069	<0.033	<0.037	<260	<0.0072
NB6538	TRA/HR/2022/1E91/015/F	Roofing felt	04/07/2022	<0.019	<0.11	<0.046	<0.054	<430	<0.013
NB6539	TRA/HR/2022/1E91/016/F	Roofing felt	04/07/2022	<0.025	<0.14	<0.063	<0.075	<560	<0.017
NB6540	TRA/HR/2022/1E91/018/F	Roofing felt	04/07/2022	<0.015	<0.089	<0.038	<0.045	<360	<0.0089
NB6541	TRA/HR/2022/1E91/019/F	Roofing felt	04/07/2022	<0.010	<0.054	<0.027	<0.031	<250	<0.0066
NB6542	TRA/HR/2022/1E91/020/F	Roofing felt	04/07/2022	<0.023	<0.15	<0.060	<0.044	<510	<0.016
NB6543	TRA/HR/2022/1751/133/M	Metal	28/06/2022	<0.0040	<0.025	<0.013	<0.017	<200	<0.0032
NB6544	TRA/HR/2022/1651/134/M	Metal	28/06/2022	<0.0083	<0.050	<0.019	<0.016	<290	<0.0054
NB6545	TRA/HR/2022/1610/135/P	Paint (flakes)	24/06/2022	<0.050	<0.35	<0.14	<0.15	<3500	<0.038
NB6546	TRA/HR/2022/1610/137/P	Paint (flakes)	24/06/2022	<0.047	<0.33	<0.15	<0.12	<3400	<0.035
NB6547	TRA/HR/2022/1610/141/P	Paint (flakes)	24/06/2022	<0.11	<0.69	<0.25	<0.23	<5800	<0.070

Table 10. Gamma spectrometry for the artificial radionuclides ^{110m}Ag , ^{124}Sb , ^{125}Sb , ^{129}I , ^{131}I , ^{134}Cs . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (3)					
				Ag-110m (Bq/g)	Sb-124 (Bq/g)	Sb-125 (Bq/g)	I-129 (Bq/g)	I-131 (Bq/g)	Cs-134 (Bq/g)
NB6548	TRA/HR/2022/1610/145/P	Paint (flakes)	24/06/2022	<0.057	<0.38	<0.15	<0.090	<3300	<0.044
NB6549	TRA/HR/2022/1610/147/P	Paint (flakes)	27/06/2022	<0.067	<0.33	<0.19	<0.20	<3700	<0.052
NB6550	TRA/HR/2022/1610/151/P	Paint (flakes)	27/06/2022	<0.073	<0.49	<0.19	<0.20	<3800	<0.055
NB6551	TRA/HR/2022/1610/154/P	Paint (flakes)	27/06/2022	<0.049	<0.35	<0.14	<0.13	<2700	<0.036
NB6552	TRA/HR/2022/1610/157/P	Paint (flakes)	27/06/2022	<0.088	<0.52	<0.23	<0.21	<4400	<0.071
NB6553	TRA/HR/2022/1610/159/P	Paint (flakes)	27/06/2022	<0.088	<0.57	<0.20	<0.13	<3700	<0.065
NB6554	TRA/HR/2022/1610/160/P	Paint (flakes)	27/06/2022	<0.059	<0.33	<0.16	<0.17	<3200	<0.042
NB6555	TRA/HR/2022/1610/163/P	Paint (flakes)	28/06/2022	<0.069	<0.44	<0.18	<0.16	<3200	<0.054
NB6556	TRA/HR/2022/1610/167/P	Paint (flakes)	28/06/2022	<0.032	<0.21	<0.084	<0.079	<1500	<0.026
NB6557	TRA/HR/2022/1670/170/P	Paint (flakes)	28/06/2022	<0.046	<0.26	<0.12	<0.11	<2000	<0.035
NB6558	TRA/HR/2022/1670/172/P	Paint (flakes)	28/06/2022	<0.083	<0.59	<0.21	<0.14	<3500	<0.062
NB6559	TRA/HR/2022/1670/174/P	Paint (flakes)	28/06/2022	<0.090	<0.56	<0.27	<0.28	<5100	<0.067
NB6560	TRA/HR/2022/1670/175/P	Paint (flakes)	28/06/2022	<0.29	<1.8	<0.72	<0.46	<12000	<0.18
NB6561	TRA/HR/2022/1670/176/P	Paint (flakes)	29/06/2022	<0.049	<0.30	<0.14	<0.12	<2200	<0.035
NB6562	TRA/HR/2022/1670/177/P	Paint (flakes)	29/06/2022	<0.11	<0.53	<0.32	<0.32	<5500	<0.081
NB6563	TRA/HR/2022/1670/178/P	Paint (flakes)	29/06/2022	<0.23	<1.6	<0.59	<0.65	<11000	<0.18
NB6564	TRA/HR/2022/1670/179/P	Paint (flakes)	29/06/2022	<0.096	<0.57	<0.28	<0.30	<5000	<0.076
NB6565	TRA/HR/2022/1605/232/O	Oil / Grease	11/07/2022	<0.024	<0.14	<0.063	<0.055	<370	<0.018
NB6566	TRA/HR/2022/1605/233/O	Oil / Grease	11/07/2022	<0.038	<0.22	<0.093	<0.056	<510	<0.026
NB6567	TRA/HR/2022/1740/234/O	Oil / Grease	11/07/2022	<0.060	<0.31	<0.18	<0.19	<1300	<0.045

Table 10. Gamma spectrometry for the artificial radionuclides ^{110m}Ag , ^{124}Sb , ^{125}Sb , ^{129}I , ^{131}I , ^{134}Cs . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (3)					
				Ag-110m (Bq/g)	Sb-124 (Bq/g)	Sb-125 (Bq/g)	I-129 (Bq/g)	I-131 (Bq/g)	Cs-134 (Bq/g)
NB6568	TRA/HR/2022/1740/235/O	Oil / Grease	11/07/2022	<0.0056	<0.033	<0.017	<0.024	<120	<0.0049
NB6569	TRA/HR/2022/1E91/021/C	Concrete	22/06/2022	<0.0030	<0.017	<0.0073	<0.013	<260	<0.0021
NB6570	TRA/HR/2022/1E91/024/C	Concrete	22/06/2022	<0.0032	<0.020	<0.0080	<0.0082	<260	<0.0025
NB6571	TRA/HR/2022/1E91/025/C	Concrete	22/06/2022	<0.0023	<0.0099	<0.0064	<0.013	<240	<0.0017
NB6572	TRA/HR/2022/1E91/026/C	Concrete	22/06/2022	<0.0034	<0.020	<0.0086	<0.015	<310	<0.0026
NB6573	TRA/HR/2022/1E91/028/C	Concrete	22/06/2022	<0.0042	<0.026	<0.012	<0.016	<390	<0.0033
NB6574	TRA/HR/2022/1E91/032/C	Concrete	22/06/2022	<0.0036	<0.022	<0.0085	<0.0086	<280	<0.0026
NB6575	TRA/HR/2022/1E91/033/C	Concrete	22/06/2022	<0.0027	<0.014	<0.0077	<0.015	<300	<0.0021
NB6576	TRA/HR/2022/1E91/034/C	Concrete	22/06/2022	<0.0028	<0.014	<0.0070	<0.014	<260	<0.0020
NB6577	TRA/HR/2022/1E91/037/C	Concrete	22/06/2022	<0.0036	<0.018	<0.0088	<0.014	<300	<0.0025
NB6578	TRA/HR/2022/1E91/038/C	Concrete	22/06/2022	<0.0035	<0.019	<0.0086	<0.0096	<280	<0.0026
NB6579	TRA/HR/2022/1960/041/C	Concrete	14/06/2022	<0.0059	<0.036	<0.016	<0.026	<1200	<0.0044
NB6580	TRA/HR/2022/1960/042/C	Concrete	14/06/2022	<0.0048	<0.030	<0.013	<0.018	<870	<0.0033
NB6581	TRA/HR/2022/1960/044/C	Concrete	14/06/2022	<0.0036	<0.021	<0.0090	<0.014	<610	<0.0025
NB6582	TRA/HR/2022/1960/046/C	Concrete	14/06/2022	<0.0040	<0.025	<0.0094	<0.0097	<610	<0.0028
NB6583	TRA/HR/2022/1960/047/C	Concrete	14/06/2022	<0.0036	<0.021	<0.0098	<0.016	<740	<0.0029
NB6584	TRA/HR/2022/1960/049/C	Concrete	14/06/2022	<0.0039	<0.023	<0.0097	<0.017	<710	<0.0028
NB6585	TRA/HR/2022/1960/050/C	Concrete	14/06/2022	<0.0056	<0.037	<0.014	<0.019	<950	<0.0037
NB6586	TRA/HR/2022/1960/051/C	Concrete	16/06/2022	<0.0037	<0.025	<0.0094	<0.0089	<480	<0.0025
NB6587	TRA/HR/2022/1960/052/C	Concrete	16/06/2022	<0.0039	<0.022	<0.011	<0.017	<670	<0.0029

Table 10. Gamma spectrometry for the artificial radionuclides ^{110m}Ag, ¹²⁴Sb, ¹²⁵Sb, ¹²⁹I, ¹³¹I, ¹³⁴Cs. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (3)					
				Ag-110m (Bq/g)	Sb-124 (Bq/g)	Sb-125 (Bq/g)	I-129 (Bq/g)	I-131 (Bq/g)	Cs-134 (Bq/g)
NB6588	TRA/HR/2022/1960/053/C	Concrete	16/06/2022	<0.0041	<0.029	<0.012	<0.019	<690	<0.0031
NB6589	TRA/HR/2022/1960/054/C	Concrete	16/06/2022	<0.0037	<0.021	<0.0092	<0.015	<580	<0.0027
NB6590	TRA/HR/2022/1960/055/C	Concrete	16/06/2022	<0.0059	<0.040	<0.016	<0.014	<810	<0.0044
NB6591	TRA/HR/2022/1960/056/C	Concrete	16/06/2022	<0.0045	<0.027	<0.013	<0.019	<810	<0.0034
NB6592	TRA/HR/2022/1960/057/C	Concrete	16/06/2022	<0.0061	<0.037	<0.017	<0.023	<950	<0.0044
NB6593	TRA/HR/2022/1960/058/C	Concrete	16/06/2022	<0.0054	<0.036	<0.014	<0.018	<810	<0.0035
NB6594	TRA/HR/2022/1960/060/C	Concrete	16/06/2022	<0.0039	<0.027	<0.0096	<0.0095	<540	<0.0028
NB6595	TRA/HR/2022/1960/061/C	Concrete	24/06/2022	<0.0024	<0.013	<0.0070	<0.013	<250	<0.0019
NB6596	TRA/HR/2022/1960/062/C	Concrete	24/06/2022	<0.0038	<0.020	<0.010	<0.016	<320	<0.0028
NB6597	TRA/HR/2022/1960/063/C	Concrete	24/06/2022	<0.0046	<0.028	<0.012	<0.016	<370	<0.0033
NB6598	TRA/HR/2022/1960/064/C	Concrete	24/06/2022	<0.0038	<0.019	<0.0084	<0.0099	<270	<0.0026
NB6599	TRA/HR/2022/1970/065/C	Concrete	21/06/2022	<0.0053	<0.029	<0.015	<0.023	<610	<0.0040
NB6600	TRA/HR/2022/1970/066/C	Concrete	21/06/2022	<0.0035	<0.019	<0.0084	<0.015	<370	<0.0026
NB6601	TRA/HR/2022/1970/068/C	Concrete	21/06/2022	<0.0050	<0.032	<0.013	<0.017	<510	<0.0033
NB6602	TRA/HR/2022/1970/071/C	Concrete	21/06/2022	<0.0037	<0.022	<0.0089	<0.0094	<330	<0.0027
NB6603	TRA/HR/2022/1970/072/C	Concrete	21/06/2022	<0.0034	<0.016	<0.0090	<0.016	<420	<0.0024
NB6604	TRA/HR/2022/1970/073/C	Concrete	21/06/2022	<0.0052	<0.031	<0.014	<0.020	<570	<0.0037
NB6605	TRA/HR/2022/1970/074/C	Concrete	21/06/2022	<0.0033	<0.020	<0.0086	<0.016	<380	<0.0024
NB6606	TRA/HR/2022/1970/077/C	Concrete	21/06/2022	<0.0033	<0.018	<0.0080	<0.0086	<330	<0.0023
NB6607	TRA/HR/2022/1970/078/C	Concrete	21/06/2022	<0.0034	<0.018	<0.0093	<0.016	<420	<0.0025

Table 10. Gamma spectrometry for the artificial radionuclides ^{110m}Ag , ^{124}Sb , ^{125}Sb , ^{129}I , ^{131}I , ^{134}Cs . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (3)					
				Ag-110m (Bq/g)	Sb-124 (Bq/g)	Sb-125 (Bq/g)	I-129 (Bq/g)	I-131 (Bq/g)	Cs-134 (Bq/g)
NB6608	TRA/HR/2022/1970/079/C	Concrete	21/06/2022	<0.0037	<0.023	<0.010	<0.016	<440	<0.0027
NB6609	TRA/HR/2022/1970/080/C	Concrete	21/06/2022	<0.0039	<0.022	<0.0097	<0.014	<390	<0.0027
NB6610	TRA/HR/2022/1970/082/C	Concrete	21/06/2022	<0.0036	<0.021	<0.0086	<0.0088	<360	<0.0026
NB6611	TRA/HR/2022/1970/083/C	Concrete	21/06/2022	<0.0034	<0.017	<0.0093	<0.015	<450	<0.0026
NB6612	TRA/HR/2022/1970/084/C	Concrete	21/06/2022	<0.0022	<0.013	<0.0060	<0.0085	<260	<0.0018
NB6613	TRA/HR/2022/1970/085/C	Concrete	23/06/2022	<0.0020	<0.011	<0.0053	<0.0092	<200	<0.0016
NB6614	TRA/HR/2022/1970/086/C	Concrete	23/06/2022	<0.0020	<0.011	<0.0052	<0.0092	<200	<0.0014
NB6615	TRA/HR/2022/1970/087/C	Concrete	23/06/2022	<0.0024	<0.012	<0.0062	<0.011	<240	<0.0018
NB6616	TRA/HR/2022/1970/088/C	Concrete	23/06/2022	<0.0041	<0.022	<0.0093	<0.012	<350	<0.0029
NB6617	TRA/HR/2022/1901/089/C	Concrete	23/05/2022	<0.0062	<0.049	<0.015	<0.020	<10000	<0.0041
NB6618	TRA/HR/2022/1901/090/C	Concrete	23/05/2022	<0.0042	<0.032	<0.0087	<0.0086	<10000	<0.0025
NB6619	TRA/HR/2022/1901/091/C	Concrete	23/05/2022	<0.0053	<0.032	<0.014	<0.019	<10000	<0.0035
NB6620	TRA/HR/2022/1901/092/C	Concrete	23/05/2022	<0.0056	<0.054	<0.015	<0.021	<10000	<0.0044
NB6621	TRA/HR/2022/1901/093/C	Concrete	23/05/2022	<0.0063	<0.050	<0.015	<0.019	<10000	<0.0040
NB6622	TRA/HR/2022/1951/094/C	Concrete	23/05/2022	<0.0042	<0.035	<0.0095	<0.0093	<10000	<0.0031
NB6623	TRA/HR/2022/1951/095/C	Concrete	23/05/2022	<0.0035	<0.024	<0.0095	<0.015	<10000	<0.0026
NB6624	TRA/HR/2022/1951/096/C	Concrete	23/05/2022	<0.0039	<0.027	<0.0096	<0.015	<10000	<0.0024
NB6625	TRA/HR/2022/1951/097/C	Concrete	23/05/2022	<0.0023	<0.016	<0.0060	<0.0086	<10000	<0.0017
NB6626	TRA/HR/2022/1951/098/C	Concrete	23/05/2022	<0.0036	<0.030	<0.0087	<0.014	<10000	<0.0026
NB6627	TRA/HR/2022/1601/099/C	Concrete	24/05/2022	<0.0058	<0.049	<0.014	<0.012	<10000	<0.0038

Table 10. Gamma spectrometry for the artificial radionuclides ^{110m}Ag, ¹²⁴Sb, ¹²⁵Sb, ¹²⁹I, ¹³¹I, ¹³⁴Cs. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (3)					
				Ag-110m (Bq/g)	Sb-124 (Bq/g)	Sb-125 (Bq/g)	I-129 (Bq/g)	I-131 (Bq/g)	Cs-134 (Bq/g)
NB6628	TRA/HR/2022/1602/104/C	Concrete	24/05/2022	<0.0033	<0.022	<0.0086	<0.016	<10000	<0.0023
NB6629	TRA/HR/2022/1603/105/C	Concrete	24/05/2022	<0.0035	<0.021	<0.0085	<0.015	<10000	<0.0024
NB6630	TRA/HR/2022/1651/100/C	Concrete	22/06/2022	<0.0019	<0.0091	<0.0047	<0.0091	<230	<0.0014
NB6631	TRA/HR/2022/1651/101/C	Concrete	22/06/2022	<0.0026	<0.013	<0.0071	<0.013	<320	<0.0019
NB6632	TRA/HR/2022/1651/102/C	Concrete	22/06/2022	<0.0031	<0.019	<0.0079	<0.0086	<310	<0.0022
NB6633	TRA/HR/2022/1651/103/C	Concrete	22/06/2022	<0.0027	<0.013	<0.0082	<0.015	<370	<0.0022
NB6634	TRA/HR/2022/1762/111/C	Concrete	24/05/2022	<0.0035	<0.023	<0.0083	<0.015	<10000	<0.0023
NB6635	TRA/HR/2022/1652/106/C	Concrete	23/06/2022	<0.0033	<0.019	<0.0078	<0.013	<340	<0.0023
NB6636	TRA/HR/2022/1652/107/C	Concrete	23/06/2022	<0.0035	<0.019	<0.0089	<0.015	<400	<0.0029
NB6637	TRA/HR/2022/1761/108/C	Concrete	23/05/2022	<0.0023	<0.016	<0.0060	<0.0083	<10000	<0.0017
NB6638	TRA/HR/2022/1652/109/C	Concrete	23/06/2022	<0.0024	<0.014	<0.0063	<0.012	<280	<0.0018
NB6639	TRA/HR/2022/1652/110/C	Concrete	23/06/2022	<0.0030	<0.017	<0.0072	<0.0084	<280	<0.0021
NB6640	TRA/HR/2022/1763/114/C	Concrete	24/05/2022	<0.0031	<0.021	<0.0080	<0.015	<10000	<0.0022
NB6641	TRA/HR/2022/1653/112/C	Concrete	23/06/2022	<0.0029	<0.016	<0.0077	<0.013	<340	<0.0021
NB6642	TRA/HR/2022/1653/113/C	Concrete	23/06/2022	<0.0026	<0.013	<0.0068	<0.013	<320	<0.0019
NB6643	TRA/HR/2022/1653/115/C	Concrete	23/06/2022	<0.0016	<0.0084	<0.0046	<0.0084	<210	<0.0012
NB6644	TRA/HR/2022/1653/116/C	Concrete	23/06/2022	<0.0025	<0.014	<0.0065	<0.012	<270	<0.0018
NB6645	TRA/HR/2022/1507/117/C	Concrete	25/05/2022	<0.0033	<0.023	<0.0075	<0.0081	<10000	<0.0023
NB6646	TRA/HR/2022/1507/118/C	Concrete	25/05/2022	<0.0050	<0.036	<0.014	<0.020	<10000	<0.0036
NB6647	TRA/HR/2022/1508/119/C	Concrete	25/05/2022	<0.0019	<0.013	<0.0049	<0.0083	<10000	<0.0015

Table 10. Gamma spectrometry for the artificial radionuclides ^{110m}Ag , ^{124}Sb , ^{125}Sb , ^{129}I , ^{131}I , ^{134}Cs . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (3)					
				Ag-110m (Bq/g)	Sb-124 (Bq/g)	Sb-125 (Bq/g)	I-129 (Bq/g)	I-131 (Bq/g)	Cs-134 (Bq/g)
NB6648	TRA/HR/2022/1508/120/C	Concrete	25/05/2022	<0.0022	<0.017	<0.0058	<0.0080	<10000	<0.0016
NB6649	TRA/HR/2022/1509/121/C	Concrete	25/05/2022	<0.0021	<0.015	<0.0055	<0.0077	<10000	<0.0016
NB6650	TRA/HR/2022/1509/122/C	Concrete	25/05/2022	<0.0027	<0.021	<0.0066	<0.011	<10000	<0.0019
NB6651	TRA/HR/2022/1751/123/C	Concrete	25/05/2022	<0.0031	<0.025	<0.0071	<0.0081	<10000	<0.0022
NB6652	TRA/HR/2022/1751/124/C	Concrete	25/05/2022	<0.0037	<0.027	<0.0091	<0.015	<10000	<0.0025
NB6653	TRA/HR/2022/1752/125/C	Concrete	25/05/2022	<0.0030	<0.020	<0.0082	<0.013	<10000	<0.0023
NB6654	TRA/HR/2022/1752/126/C	Concrete	25/05/2022	<0.0032	<0.020	<0.0076	<0.013	<10000	<0.0021
NB6655	TRA/HR/2022/1753/127/C	Concrete	25/05/2022	<0.0035	<0.029	<0.0088	<0.011	<10000	<0.0023
NB6656	TRA/HR/2022/1753/128/C	Concrete	25/05/2022	<0.0034	<0.028	<0.0083	<0.013	<10000	<0.0024
NB6657	TRA/HR/2022/1610/180/C	Concrete	29/06/2022	<0.0030	<0.016	<0.0072	<0.0078	<180	<0.0021
NB6658	TRA/HR/2022/1610/181/C	Concrete	29/06/2022	<0.0028	<0.016	<0.0070	<0.0077	<170	<0.0020
NB6659	TRA/HR/2022/1610/182/C	Concrete	29/06/2022	<0.0036	<0.023	<0.0088	<0.0090	<230	<0.0026
NB6660	TRA/HR/2022/1610/183/C	Concrete	29/06/2022	<0.0026	<0.013	<0.0069	<0.013	<200	<0.0020
NB6661	TRA/HR/2022/1610/184/C	Concrete	29/06/2022	<0.0026	<0.014	<0.0076	<0.015	<230	<0.0020
NB6662	TRA/HR/2022/1605/190/C	Concrete	26/05/2022	<0.0027	<0.021	<0.0065	<0.010	<10000	<0.0019
NB6663	TRA/HR/2022/1605/191/C	Concrete	26/05/2022	<0.0034	<0.025	<0.0076	<0.0079	<10000	<0.0022
NB6664	TRA/HR/2022/1605/192/C	Concrete	26/05/2022	<0.0034	<0.022	<0.0086	<0.014	<10000	<0.0023
NB6665	TRA/HR/2022/1605/193/C	Concrete	26/05/2022	<0.0029	<0.020	<0.0073	<0.013	<10000	<0.0019
NB6666	TRA/HR/2022/1605/195/C	Concrete	26/05/2022	<0.0026	<0.020	<0.0067	<0.012	<10000	<0.0018
NB6667	TRA/HR/2022/1605/196/C	Concrete	26/05/2022	<0.0023	<0.017	<0.0056	<0.0079	<10000	<0.0016

Table 10. Gamma spectrometry for the artificial radionuclides ^{110m}Ag, ¹²⁴Sb, ¹²⁵Sb, ¹²⁹I, ¹³¹I, ¹³⁴Cs. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (3)					
				Ag-110m (Bq/g)	Sb-124 (Bq/g)	Sb-125 (Bq/g)	I-129 (Bq/g)	I-131 (Bq/g)	Cs-134 (Bq/g)
NB6668	TRA/HR/2022/1605/197/C	Concrete	26/05/2022	<0.0027	<0.019	<0.0066	<0.011	<10000	<0.0020
NB6669	TRA/HR/2022/1605/198/C	Concrete	26/05/2022	<0.0032	<0.022	<0.0073	<0.0079	<10000	<0.0020
NB6670	TRA/HR/2022/1605/201/C	Concrete	01/06/2022	<0.0039	<0.023	<0.011	<0.018	<10000	<0.0029
NB6671	TRA/HR/2022/1605/203/C	Concrete	01/06/2022	<0.0026	<0.015	<0.0063	<0.011	<10000	<0.0018
NB6672	TRA/HR/2022/1605/204/C	Concrete	01/06/2022	<0.0036	<0.025	<0.0084	<0.013	<10000	<0.0024
NB6673	TRA/HR/2022/1605/205/C	Concrete	01/06/2022	<0.0026	<0.016	<0.0073	<0.013	<10000	<0.0019
NB6674	TRA/HR/2022/1605/206/C	Concrete	01/06/2022	<0.0025	<0.015	<0.0069	<0.013	<10000	<0.0018
NB6675	TRA/HR/2022/1605/209/C	Concrete	01/06/2022	<0.0040	<0.027	<0.0086	<0.0086	<10000	<0.0026
NB6676	TRA/HR/2022/1771/211/C	Concrete	08/06/2022	<0.0033	<0.023	<0.0087	<0.014	<10000	<0.0024
NB6677	TRA/HR/2022/1771/212/C	Concrete	08/06/2022	<0.0029	<0.018	<0.0076	<0.013	<10000	<0.0021
NB6678	TRA/HR/2022/1754/213/C	Concrete	08/06/2022	<0.0030	<0.020	<0.0079	<0.013	<10000	<0.0022
NB6679	TRA/HR/2022/1754/215/C	Concrete	08/06/2022	<0.0031	<0.021	<0.0084	<0.014	<10000	<0.0021
NB6680	TRA/HR/2022/1771/218/C	Concrete	08/06/2022	<0.0030	<0.017	<0.0073	<0.013	<10000	<0.0022
NB6681	TRA/HR/2022/1755/219/C	Concrete	09/06/2022	<0.0037	<0.022	<0.0091	<0.015	<10000	<0.0027
NB6682	TRA/HR/2022/1771/220/C	Concrete	09/06/2022	<0.0024	<0.015	<0.0068	<0.013	<10000	<0.0019
NB6683	TRA/HR/2022/1771/221/C	Concrete	09/06/2022	<0.0026	<0.013	<0.0066	<0.013	<10000	<0.0018
NB6684	TRA/HR/2022/1771/223/C	Concrete	09/06/2022	<0.0021	<0.013	<0.0056	<0.0080	<10000	<0.0016
NB6685	TRA/HR/2022/1771/226/C	Concrete	09/06/2022	<0.0035	<0.025	<0.0088	<0.012	<10000	<0.0025
NB6686	TRA/HR/2022/1755/227/C	Concrete	09/06/2022	<0.0022	<0.014	<0.0059	<0.0085	<10000	<0.0017
NB7034	TRA/HR/2022/2E91/001/F	Roofing felt	07/07/2022	<0.020	<0.13	<0.052	<0.066	<1700	<0.014

Table 10. Gamma spectrometry for the artificial radionuclides ^{110m}Ag , ^{124}Sb , ^{125}Sb , ^{129}I , ^{131}I , ^{134}Cs . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (3)					
				Ag-110m (Bq/g)	Sb-124 (Bq/g)	Sb-125 (Bq/g)	I-129 (Bq/g)	I-131 (Bq/g)	Cs-134 (Bq/g)
NB7035	TRA/HR/2022/2E91/003/F	Roofing felt	07/07/2022	<0.014	<0.087	<0.035	<0.050	<1300	<0.0097
NB7036	TRA/HR/2022/2E91/004/F	Roofing felt	07/07/2022	<0.016	<0.097	<0.036	<0.032	<1200	<0.0095
NB7037	TRA/HR/2022/2E91/005/F	Roofing felt	07/07/2022	<0.0077	<0.049	<0.023	<0.026	<780	<0.0053
NB7038	TRA/HR/2022/2E91/007/F	Roofing felt	07/07/2022	<0.018	<0.12	<0.049	<0.066	<1700	<0.013
NB7039	TRA/HR/2022/2E91/008/F	Roofing felt	07/07/2022	<0.0063	<0.041	<0.018	<0.024	<560	<0.0042
NB7040	TRA/HR/2022/2E91/009/F	Roofing felt	07/07/2022	<0.0064	<0.036	<0.020	<0.024	<580	<0.0046
NB7041	TRA/HR/2022/2E91/011/F	Roofing felt	07/07/2022	<0.0077	<0.052	<0.023	<0.029	<750	<0.0055
NB7042	TRA/HR/2022/2E91/013/F	Roofing felt	07/07/2022	<0.012	<0.072	<0.029	<0.025	<850	<0.0073
NB7043	TRA/HR/2022/2E91/014/F	Roofing felt	07/07/2022	<0.0086	<0.053	<0.024	<0.034	<850	<0.0062
NB7044	TRA/HR/2022/2E91/015/F	Roofing felt	07/07/2022	<0.011	<0.071	<0.031	<0.041	<940	<0.0077
NB7045	TRA/HR/2022/2E91/016/F	Roofing felt	07/07/2022	<0.016	<0.11	<0.038	<0.034	<1200	<0.011
NB7046	TRA/HR/2022/2E91/018/F	Roofing felt	07/07/2022	<0.019	<0.11	<0.052	<0.082	<1900	<0.013
NB7047	TRA/HR/2022/2E91/019/F	Roofing felt	07/07/2022	<0.012	<0.074	<0.035	<0.052	<1300	<0.0092
NB7048	TRA/HR/2022/2E91/020/F	Roofing felt	07/07/2022	<0.012	<0.072	<0.031	<0.044	<1200	<0.0076
NB7049	TRA/HR/2022/2610/136/P	Paint (flakes)	27/07/2022	<0.057	<0.28	<0.14	<0.13	<860	<0.044
NB7050	TRA/HR/2022/2610/139/P	Paint (flakes)	27/07/2022	<0.051	<0.30	<0.13	<0.085	<650	<0.037
NB7051	TRA/HR/2022/2610/142/P	Paint (flakes)	27/07/2022	<0.071	<0.34	<0.20	<0.22	<1200	<0.051
NB7052	TRA/HR/2022/2610/144/P	Paint (flakes)	27/07/2022	<0.042	<0.24	<0.13	<0.11	<720	<0.032
NB7053	TRA/HR/2022/2610/146/P	Paint (flakes)	27/07/2022	<0.049	<0.28	<0.15	<0.13	<870	<0.035
NB7054	TRA/HR/2022/2610/149/P	Paint (flakes)	27/07/2022	<0.052	<0.29	<0.14	<0.12	<780	<0.040

Table 10. Gamma spectrometry for the artificial radionuclides ^{110m}Ag , ^{124}Sb , ^{125}Sb , ^{129}I , ^{131}I , ^{134}Cs . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (3)					
				Ag-110m (Bq/g)	Sb-124 (Bq/g)	Sb-125 (Bq/g)	I-129 (Bq/g)	I-131 (Bq/g)	Cs-134 (Bq/g)
NB7055	TRA/HR/2022/2610/152/P	Paint (flakes)	27/07/2022	<0.085	<0.48	<0.22	<0.14	<1200	<0.063
NB7056	TRA/HR/2022/2610/154/P	Paint (flakes)	27/07/2022	<0.066	<0.30	<0.20	<0.21	<1200	<0.055
NB7057	TRA/HR/2022/2610/158/P	Paint (flakes)	27/07/2022	<0.076	<0.41	<0.19	<0.18	<1300	<0.056
NB7058	TRA/HR/2022/2610/161/P	Paint (flakes)	27/07/2022	<0.055	<0.29	<0.16	<0.14	<960	<0.039
NB7059	TRA/HR/2022/2610/163/P	Paint (flakes)	27/07/2022	<0.043	<0.24	<0.13	<0.11	<770	<0.029
NB7060	TRA/HR/2022/2610/166/P	Paint (flakes)	27/07/2022	<0.088	<0.47	<0.22	<0.22	<1500	<0.065
NB7061	TRA/HR/2022/2610/169/P	Paint (flakes)	27/07/2022	<0.094	<0.53	<0.24	<0.22	<1600	<0.070
NB7062	TRA/HR/2022/2670/171/P	Paint (flakes)	28/07/2022	<0.085	<0.50	<0.24	<0.21	<1500	<0.068
NB7063	TRA/HR/2022/2670/173/P	Paint (flakes)	28/07/2022	<0.093	<0.51	<0.23	<0.22	<1600	<0.077
NB7064	TRA/HR/2022/2670/175/P	Paint (flakes)	28/07/2022	<0.16	<0.87	<0.37	<0.22	<1800	<0.11
NB7065	TRA/HR/2022/2670/176/P	Paint (flakes)	28/07/2022	<0.22	<1.2	<0.55	<0.34	<2900	<0.16
NB7066	TRA/HR/2022/2670/177/P	Paint (flakes)	28/07/2022	<0.14	<0.78	<0.33	<0.23	<1800	<0.098
NB7067	TRA/HR/2022/2670/178/P	Paint (flakes)	28/07/2022	<0.13	<0.83	<0.31	<0.21	<1700	<0.091
NB7068	TRA/HR/2022/2670/179/P	Paint (flakes)	28/07/2022	<0.20	<0.96	<0.60	<0.59	<3400	<0.15
NB7069	TRA/HR/2022/2652/132/M	Metal	04/07/2022	<0.0051	<0.033	<0.015	<0.019	<670	<0.0036
NB7070	TRA/HR/2022/2652/134/M	Metal	04/07/2022	<0.018	<0.11	<0.051	<0.068	<2500	<0.013
NB7071	TRA/HR/2022/2E91/022/C	Concrete	07/07/2022	<0.0026	<0.012	<0.0073	<0.014	<300	<0.0019
NB7072	TRA/HR/2022/2E91/024/C	Concrete	07/07/2022	<0.0028	<0.014	<0.0082	<0.016	<360	<0.0021
NB7073	TRA/HR/2022/2E91/027/C	Concrete	07/07/2022	<0.0018	<0.011	<0.0051	<0.0089	<220	<0.0015
NB7074	TRA/HR/2022/2E91/028/C	Concrete	07/07/2022	<0.0021	<0.0090	<0.0050	<0.0091	<220	<0.0015

Table 10. Gamma spectrometry for the artificial radionuclides ^{110m}Ag , ^{124}Sb , ^{125}Sb , ^{129}I , ^{131}I , ^{134}Cs . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (3)					
				Ag-110m (Bq/g)	Sb-124 (Bq/g)	Sb-125 (Bq/g)	I-129 (Bq/g)	I-131 (Bq/g)	Cs-134 (Bq/g)
NB7075	TRA/HR/2022/2E91/030/C	Concrete	07/07/2022	<0.0016	<0.0083	<0.0044	<0.0081	<190	<0.0012
NB7076	TRA/HR/2022/2E91/033/C	Concrete	07/07/2022	<0.0029	<0.016	<0.0069	<0.0079	<250	<0.0020
NB7077	TRA/HR/2022/2E91/034/C	Concrete	07/07/2022	<0.0027	<0.015	<0.0069	<0.0079	<260	<0.0020
NB7078	TRA/HR/2022/2E91/036/C	Concrete	07/07/2022	<0.0028	<0.018	<0.0071	<0.0081	<270	<0.0020
NB7079	TRA/HR/2022/2E91/037/C	Concrete	07/07/2022	<0.0030	<0.017	<0.0068	<0.0082	<260	<0.0020
NB7080	TRA/HR/2022/2E91/039/C	Concrete	07/07/2022	<0.0030	<0.017	<0.0075	<0.0098	<270	<0.0022
NB7081	TRA/HR/2022/2970/041/C	Concrete	12/07/2022	<0.0060	<0.027	<0.015	<0.021	<150	<0.0037
NB7082	TRA/HR/2022/2970/043/C	Concrete	12/07/2022	<0.0027	<0.016	<0.0083	<0.011	<87	<0.0021
NB7083	TRA/HR/2022/2970/044/C	Concrete	12/07/2022	<0.0049	<0.029	<0.013	<0.018	<130	<0.0035
NB7084	TRA/HR/2022/2970/045/C	Concrete	12/07/2022	<0.0067	<0.035	<0.017	<0.014	<160	<0.0046
NB7085	TRA/HR/2022/2970/047/C	Concrete	12/07/2022	<0.0030	<0.014	<0.0087	<0.015	<110	<0.0022
NB7086	TRA/HR/2022/2970/048/C	Concrete	12/07/2022	<0.0048	<0.025	<0.014	<0.019	<150	<0.0036
NB7087	TRA/HR/2022/2970/049/C	Concrete	12/07/2022	<0.0020	<0.0092	<0.0056	<0.0088	<67	<0.0018
NB7088	TRA/HR/2022/2970/050/C	Concrete	12/07/2022	<0.0048	<0.023	<0.013	<0.016	<130	<0.0033
NB7089	TRA/HR/2022/2970/051/C	Concrete	12/07/2022	<0.0047	<0.028	<0.012	<0.011	<120	<0.0035
NB7090	TRA/HR/2022/2970/052/C	Concrete	12/07/2022	<0.0048	<0.021	<0.013	<0.020	<150	<0.0035
NB7091	TRA/HR/2022/2970/053/C	Concrete	12/07/2022	<0.0034	<0.015	<0.0084	<0.015	<110	<0.0024
NB7092	TRA/HR/2022/2970/054/C	Concrete	12/07/2022	<0.0038	<0.021	<0.011	<0.015	<120	<0.0029
NB7093	TRA/HR/2022/2970/055/C	Concrete	12/07/2022	<0.0025	<0.013	<0.0067	<0.012	<76	<0.0020
NB7094	TRA/HR/2022/2970/058/C	Concrete	12/07/2022	<0.0030	<0.015	<0.0074	<0.0081	<76	<0.0023

Table 10. Gamma spectrometry for the artificial radionuclides ^{110m}Ag , ^{124}Sb , ^{125}Sb , ^{129}I , ^{131}I , ^{134}Cs . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (3)					
				Ag-110m (Bq/g)	Sb-124 (Bq/g)	Sb-125 (Bq/g)	I-129 (Bq/g)	I-131 (Bq/g)	Cs-134 (Bq/g)
NB7095	TRA/HR/2022/2970/059/C	Concrete	12/07/2022	<0.0021	<0.0090	<0.0063	<0.012	<79	<0.0017
NB7096	TRA/HR/2022/2970/061/C	Concrete	19/07/2022	<0.0074	<0.025	<0.016	<0.022	<96	<0.0048
NB7097	TRA/HR/2022/2970/062/C	Concrete	19/07/2022	<0.0037	<0.012	<0.0083	<0.012	<53	<0.0026
NB7098	TRA/HR/2022/2970/063/C	Concrete	19/07/2022	<0.0026	<0.011	<0.0068	<0.012	<43	<0.0021
NB7099	TRA/HR/2022/2970/064/C	Concrete	19/07/2022	<0.0029	<0.012	<0.0067	<0.0083	<40	<0.0020
NB7100	TRA/HR/2022/2960/065/C	Concrete	26/07/2022	<0.0049	<0.021	<0.015	<0.023	<54	<0.0039
NB7101	TRA/HR/2022/2960/067/C	Concrete	26/07/2022	<0.0031	<0.013	<0.0087	<0.015	<30	<0.0025
NB7102	TRA/HR/2022/2960/068/C	Concrete	26/07/2022	<0.0021	<0.0090	<0.0058	<0.0089	<22	<0.0017
NB7103	TRA/HR/2022/2960/070/C	Concrete	26/07/2022	<0.0047	<0.021	<0.013	<0.018	<44	<0.0033
NB7104	TRA/HR/2022/2960/071/C	Concrete	26/07/2022	<0.0054	<0.028	<0.014	<0.013	<41	<0.0039
NB7105	TRA/HR/2022/2960/072/C	Concrete	26/07/2022	<0.0035	<0.014	<0.011	<0.018	<39	<0.0028
NB7106	TRA/HR/2022/2960/073/C	Concrete	26/07/2022	<0.0029	<0.012	<0.0078	<0.015	<30	<0.0023
NB7107	TRA/HR/2022/2960/074/C	Concrete	26/07/2022	<0.0019	<0.0075	<0.0055	<0.0096	<21	<0.0016
NB7108	TRA/HR/2022/2960/075/C	Concrete	26/07/2022	<0.0026	<0.013	<0.0069	<0.013	<26	<0.0021
NB7109	TRA/HR/2022/2960/076/C	Concrete	26/07/2022	<0.0036	<0.017	<0.0086	<0.0092	<28	<0.0025
NB7110	TRA/HR/2022/2960/077/C	Concrete	26/07/2022	<0.0029	<0.011	<0.0084	<0.015	<33	<0.0023
NB7111	TRA/HR/2022/2960/079/C	Concrete	26/07/2022	<0.0031	<0.013	<0.0087	<0.014	<32	<0.0024
NB7112	TRA/HR/2022/2960/082/C	Concrete	26/07/2022	<0.0021	<0.0088	<0.0060	<0.0088	<23	<0.0017
NB7113	TRA/HR/2022/2960/083/C	Concrete	26/07/2022	<0.0046	<0.024	<0.013	<0.017	<42	<0.0036
NB7114	TRA/HR/2022/2960/084/C	Concrete	26/07/2022	<0.0045	<0.021	<0.011	<0.010	<34	<0.0033

Table 10. Gamma spectrometry for the artificial radionuclides ^{110m}Ag , ^{124}Sb , ^{125}Sb , ^{129}I , ^{131}I , ^{134}Cs . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (3)					
				Ag-110m (Bq/g)	Sb-124 (Bq/g)	Sb-125 (Bq/g)	I-129 (Bq/g)	I-131 (Bq/g)	Cs-134 (Bq/g)
NB7115	TRA/HR/2022/2960/085/C	Concrete	26/07/2022	<0.0026	<0.0099	<0.0081	<0.015	<32	<0.0021
NB7116	TRA/HR/2022/2960/086/C	Concrete	26/07/2022	<0.0032	<0.013	<0.0087	<0.015	<32	<0.0025
NB7117	TRA/HR/2022/2960/087/C	Concrete	26/07/2022	<0.0020	<0.0075	<0.0058	<0.0086	<21	<0.0017
NB7118	TRA/HR/2022/2960/088/C	Concrete	26/07/2022	<0.0026	<0.012	<0.0069	<0.013	<26	<0.0020
NB7119	TRA/HR/2022/2901/089/C	Concrete	05/07/2022	<0.0032	<0.017	<0.0073	<0.0080	<150	<0.0022
NB7120	TRA/HR/2022/2901/090/C	Concrete	05/07/2022	<0.0030	<0.015	<0.0082	<0.014	<200	<0.0024
NB7121	TRA/HR/2022/2901/091/C	Concrete	05/07/2022	<0.0023	<0.013	<0.0063	<0.012	<160	<0.0019
NB7122	TRA/HR/2022/2901/092/C	Concrete	05/07/2022	<0.0018	<0.0084	<0.0047	<0.0083	<120	<0.0014
NB7123	TRA/HR/2022/2901/093/C	Concrete	05/07/2022	<0.0026	<0.014	<0.0065	<0.012	<150	<0.0019
NB7124	TRA/HR/2022/2951/094/C	Concrete	05/07/2022	<0.0032	<0.015	<0.0076	<0.0084	<160	<0.0023
NB7125	TRA/HR/2022/2951/095/C	Concrete	05/07/2022	<0.0023	<0.011	<0.0068	<0.014	<180	<0.0019
NB7126	TRA/HR/2022/2951/096/C	Concrete	05/07/2022	<0.0025	<0.013	<0.0063	<0.013	<160	<0.0019
NB7127	TRA/HR/2022/2951/097/C	Concrete	05/07/2022	<0.0019	<0.0093	<0.0053	<0.0080	<130	<0.0015
NB7128	TRA/HR/2022/2951/098/C	Concrete	05/07/2022	<0.0031	<0.017	<0.0082	<0.013	<180	<0.0023
NB7129	TRA/HR/2022/2601/099/C	Concrete	21/07/2022	<0.0027	<0.012	<0.0068	<0.0081	<36	<0.0019
NB7130	TRA/HR/2022/2651/104/C	Concrete	25/07/2022	<0.0026	<0.011	<0.0078	<0.015	<35	<0.0021
NB7131	TRA/HR/2022/2651/105/C	Concrete	25/07/2022	<0.0048	<0.022	<0.014	<0.020	<56	<0.0037
NB7132	TRA/HR/2022/2602/100/C	Concrete	21/07/2022	<0.0016	<0.0071	<0.0045	<0.0084	<29	<0.0012
NB7133	TRA/HR/2022/2603/101/C	Concrete	21/07/2022	<0.0023	<0.010	<0.0063	<0.012	<36	<0.0017
NB7134	TRA/HR/2022/2651/102/C	Concrete	25/07/2022	<0.0032	<0.015	<0.0077	<0.0084	<31	<0.0024

Table 10. Gamma spectrometry for the artificial radionuclides ^{110m}Ag , ^{124}Sb , ^{125}Sb , ^{129}I , ^{131}I , ^{134}Cs . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (3)					
				Ag-110m (Bq/g)	Sb-124 (Bq/g)	Sb-125 (Bq/g)	I-129 (Bq/g)	I-131 (Bq/g)	Cs-134 (Bq/g)
NB7135	TRA/HR/2022/2651/103/C	Concrete	25/07/2022	<0.0032	<0.015	<0.0078	<0.014	<120	<0.0024
NB7136	TRA/HR/2022/2652/111/C	Concrete	25/07/2022	<0.0016	<0.0067	<0.0045	<0.0077	<68	<0.0013
NB7137	TRA/HR/2022/2651/106/C	Concrete	25/07/2022	<0.0024	<0.013	<0.0063	<0.011	<91	<0.0018
NB7138	TRA/HR/2022/2652/107/C	Concrete	23/06/2022	<0.0033	<0.022	<0.0079	<0.0082	<10000	<0.0023
NB7139	TRA/HR/2022/2652/108/C	Concrete	25/07/2022	<0.0027	<0.013	<0.0080	<0.013	<130	<0.0021
NB7140	TRA/HR/2022/2652/109/C	Concrete	25/07/2022	<0.0034	<0.016	<0.0085	<0.015	<130	<0.0026
NB7141	TRA/HR/2022/2652/110/C	Concrete	25/07/2022	<0.0019	<0.010	<0.0054	<0.0083	<85	<0.0015
NB7142	TRA/HR/2022/2653/114/C	Concrete	25/07/2022	<0.0044	<0.025	<0.012	<0.016	<160	<0.0030
NB7143	TRA/HR/2022/2653/112/C	Concrete	25/07/2022	<0.0028	<0.015	<0.0072	<0.0079	<100	<0.0021
NB7144	TRA/HR/2022/2653/113/C	Concrete	25/07/2022	<0.0028	<0.013	<0.0082	<0.014	<130	<0.0022
NB7145	TRA/HR/2022/2653/115/C	Concrete	25/07/2022	<0.0020	<0.011	<0.0053	<0.0083	<85	<0.0016
NB7146	TRA/HR/2022/2653/116/C	Concrete	25/07/2022	<0.0024	<0.013	<0.0060	<0.012	<93	<0.0017
NB7147	TRA/HR/2022/2507/117/C	Concrete	20/07/2022	<0.0026	<0.015	<0.0065	<0.0076	<150	<0.0019
NB7148	TRA/HR/2022/2507/118/C	Concrete	20/07/2022	<0.0045	<0.024	<0.013	<0.020	<310	<0.0033
NB7149	TRA/HR/2022/2508/119/C	Concrete	20/07/2022	<0.0014	<0.0066	<0.0041	<0.0077	<110	<0.0012
NB7150	TRA/HR/2022/2508/120/C	Concrete	20/07/2022	<0.0028	<0.016	<0.0071	<0.012	<180	<0.0021
NB7151	TRA/HR/2022/2509/121/C	Concrete	20/07/2022	<0.0049	<0.029	<0.012	<0.0098	<250	<0.0034
NB7152	TRA/HR/2022/2509/122/C	Concrete	20/07/2022	<0.0040	<0.021	<0.012	<0.019	<300	<0.0033
NB7153	TRA/HR/2022/2751/123/C	Concrete	21/07/2022	<0.0032	<0.020	<0.0088	<0.012	<190	<0.0023
NB7154	TRA/HR/2022/2751/124/C	Concrete	21/07/2022	<0.0026	<0.014	<0.0071	<0.013	<170	<0.0021

Table 10. Gamma spectrometry for the artificial radionuclides ^{110m}Ag, ¹²⁴Sb, ¹²⁵Sb, ¹²⁹I, ¹³¹I, ¹³⁴Cs. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (3)					
				Ag-110m (Bq/g)	Sb-124 (Bq/g)	Sb-125 (Bq/g)	I-129 (Bq/g)	I-131 (Bq/g)	Cs-134 (Bq/g)
NB7155	TRA/HR/2022/2752/125/C	Concrete	21/07/2022	<0.0027	<0.014	<0.0069	<0.014	<180	<0.0020
NB7156	TRA/HR/2022/2752/126/C	Concrete	21/07/2022	<0.0020	<0.011	<0.0054	<0.0082	<130	<0.0015
NB7157	TRA/HR/2022/2753/127/C	Concrete	21/07/2022	<0.0026	<0.013	<0.0065	<0.013	<160	<0.0018
NB7158	TRA/HR/2022/2753/128/C	Concrete	21/07/2022	<0.0051	<0.032	<0.013	<0.011	<270	<0.0034
NB7159	TRA/HR/2022/2670/180/C	Concrete	28/07/2022	<0.0022	<0.0099	<0.0062	<0.012	<85	<0.0018
NB7160	TRA/HR/2022/2610/181/C	Concrete	28/07/2022	<0.0023	<0.0098	<0.0067	<0.014	<96	<0.0019
NB7161	TRA/HR/2022/2610/182/C	Concrete	28/07/2022	<0.0025	<0.013	<0.0072	<0.013	<99	<0.0020
NB7162	TRA/HR/2022/2610/183/C	Concrete	28/07/2022	<0.0016	<0.0075	<0.0044	<0.0081	<63	<0.0013
NB7163	TRA/HR/2022/2610/184/C	Concrete	28/07/2022	<0.0022	<0.011	<0.0056	<0.011	<75	<0.0016
NB7164	TRA/HR/2022/2605/190/C	Concrete	26/05/2022	<0.0030	<0.027	<0.0069	<0.0074	<10000	<0.0019
NB7165	TRA/HR/2022/2605/191/C	Concrete	26/05/2022	<0.0032	<0.026	<0.0082	<0.014	<10000	<0.0023
NB7166	TRA/HR/2022/2605/194/C	Concrete	26/05/2022	<0.0034	<0.029	<0.0082	<0.013	<10000	<0.0023
NB7167	TRA/HR/2022/2605/195/C	Concrete	26/05/2022	<0.0029	<0.024	<0.0063	<0.0071	<10000	<0.0019
NB7168	TRA/HR/2022/2605/196/C	Concrete	26/05/2022	<0.0028	<0.022	<0.0064	<0.012	<10000	<0.0019
NB7169	TRA/HR/2022/2605/198/C	Concrete	26/05/2022	<0.0031	<0.024	<0.0069	<0.0076	<10000	<0.0020
NB7170	TRA/HR/2022/2605/201/C	Concrete	01/06/2022	<0.0030	<0.023	<0.0078	<0.014	<10000	<0.0021
NB7171	TRA/HR/2022/2605/203/C	Concrete	01/06/2022	<0.0019	<0.016	<0.0048	<0.0083	<10000	<0.0014
NB7172	TRA/HR/2022/2605/204/C	Concrete	01/06/2022	<0.0018	<0.015	<0.0043	<0.0079	<10000	<0.0012
NB7173	TRA/HR/2022/2605/205/C	Concrete	01/06/2022	<0.0061	<0.053	<0.013	<0.012	<10000	<0.0038
NB7174	TRA/HR/2022/2605/206/C	Concrete	01/06/2022	<0.0033	<0.026	<0.0076	<0.0084	<10000	<0.0022

Table 10. Gamma spectrometry for the artificial radionuclides ^{110m}Ag , ^{124}Sb , ^{125}Sb , ^{129}I , ^{131}I , ^{134}Cs . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (3)					
				Ag-110m (Bq/g)	Sb-124 (Bq/g)	Sb-125 (Bq/g)	I-129 (Bq/g)	I-131 (Bq/g)	Cs-134 (Bq/g)
NB7175	TRA/HR/2022/2514/208/C	Concrete	01/06/2022	<0.0039	<0.030	<0.0091	<0.012	<10000	<0.0027
NB7176	TRA/HR/2022/2512/209/C	Concrete	01/06/2022	<0.0053	<0.046	<0.013	<0.017	<10000	<0.0035
NB7177	TRA/HR/2022/2771/211/C	Concrete	08/06/2022	<0.0028	<0.023	<0.0068	<0.013	<10000	<0.0020
NB7178	TRA/HR/2022/2771/213/C	Concrete	08/06/2022	<0.0030	<0.019	<0.0077	<0.015	<10000	<0.0020
NB7179	TRA/HR/2022/2771/215/C	Concrete	08/06/2022	<0.0019	<0.013	<0.0049	<0.0084	<10000	<0.0014
NB7180	TRA/HR/2022/2771/217/C	Concrete	08/06/2022	<0.0036	<0.028	<0.0084	<0.014	<10000	<0.0023
NB7181	TRA/HR/2022/2771/219/C	Concrete	09/06/2022	<0.0038	<0.033	<0.0080	<0.0080	<10000	<0.0024
NB7182	TRA/HR/2022/2771/221/C	Concrete	09/06/2022	<0.0049	<0.039	<0.013	<0.019	<10000	<0.0035
NB7183	TRA/HR/2022/2771/222/C	Concrete	09/06/2022	<0.0019	<0.013	<0.0048	<0.0086	<10000	<0.0013
NB7184	TRA/HR/2022/2771/223/C	Concrete	09/06/2022	<0.0037	<0.029	<0.0092	<0.013	<10000	<0.0025
NB7185	TRA/HR/2022/2771/224/C	Concrete	09/06/2022	<0.0031	<0.024	<0.0073	<0.012	<10000	<0.0022
NB7186	TRA/HR/2022/2771/227/C	Concrete	09/06/2022	<0.0037	<0.029	<0.0079	<0.0080	<10000	<0.0025
NB7187	TRA/HR/2022/2771/228/C	Concrete	09/06/2022	<0.0018	<0.013	<0.0045	<0.0076	<10000	<0.0013
NB7188	TRA/HR/2022/2771/229/C	Concrete	09/06/2022	<0.0032	<0.024	<0.0072	<0.012	<10000	<0.0022
NC4099	TRA-HR-2022-1751-AS1-C	Concrete	27/04/2023	<0.0033	<0.018	<0.0086	<0.0095	<97	<0.0025
NC4100	TRA-HR-2022-1751-AS2-C	Concrete	27/04/2023	<0.0031	<0.015	<0.0083	<0.016	<110	<0.0022
NC4101	TRA-HR-2022-1752-AS3-C	Concrete	27/04/2023	<0.0025	<0.013	<0.0075	<0.012	<97	<0.0021
NC4102	TRA-HR-2022-1752-AS4-C	Concrete	27/04/2023	<0.0034	<0.017	<0.0099	<0.016	<120	<0.0027
NC4103	TRA-HR-2022-1901-AS5-C	Concrete	27/04/2023	<0.0039	<0.019	<0.0098	<0.0098	<110	<0.003
NC4104	TRA-HR-2022-1951-AS7-C	Concrete	27/04/2023	<0.0035	<0.018	<0.011	<0.018	<130	<0.0028

Table 10. Gamma spectrometry for the artificial radionuclides ^{110m}Ag , ^{124}Sb , ^{125}Sb , ^{129}I , ^{131}I , ^{134}Cs . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (3)					
				Ag-110m (Bq/g)	Sb-124 (Bq/g)	Sb-125 (Bq/g)	I-129 (Bq/g)	I-131 (Bq/g)	Cs-134 (Bq/g)
NC4105	TRA-HR-2022-2752-AS8-C	Concrete	09/05/2023	<0.0026	<0.011	<0.0079	<0.013	<39	<0.0022
NC4106	TRA-HR-2022-2071-AS12-C	Concrete	09/05/2023	<0.0052	<0.026	<0.014	<0.022	<65	<0.0039
NC4115	TRA-HR-2022-1901-AS6-C	Concrete	27/04/2023	<0.0042	<0.02	<0.011	<0.012	<130	<0.003
NC4116	TRA-HR-2022-2771-AS9-C	Concrete	09/05/2023	<0.0031	<0.013	<0.0084	<0.016	<40	<0.0023
NC4119	TRA-HR-2022-2970-AS10-C	Concrete	11/05/2023	<0.0068	<0.017	<0.014	<0.0031	<59	<0.0046
NC4122	TRA-HR-2022-2970-AS11-C	Concrete	09/05/2023	<0.004	<0.018	<0.011	<0.018	<49	<0.0029
NC4125	TRA-HR-2022-2802.north.debris	Debris	09/05/2023	<0.034	<0.043	<0.061	<0.0072	<230	<0.021
NC4126	TRA-HR-2022-2802.east.debris	Debris	09/05/2023	<0.042	<0.051	<0.075	<0.018	<310	<0.025
NC4127	TRA-HR-2022-2802.south.debris	Debris	09/05/2023	<0.019	<0.025	<0.036	<0.0094	<170	<0.011
NC4128	TRA-HR-2022-2802.west.debris	Debris	09/05/2023	<0.015	<0.024	<0.029	<0.0079	<130	<0.0092
NC1086	Bulk Paint Sample 1	Paint (flakes)	01/01/2023	<0.0071	<0.025	<0.021	<0.021	<1.2	<0.0055
NC1087	Bulk Paint Sample 2	Paint (flakes)	01/01/2023	<0.0067	<0.023	<0.021	<0.015	<1.1	<0.0055

Table 11. Gamma spectrometry for the artificial radionuclides ¹³⁷Cs, ¹³³Ba, ¹⁴⁴Ce, ¹⁵²Eu, ¹⁵⁴Eu, ¹⁵⁵Eu. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (4)					
				Cs-137 (Bq/g)	Ba-133 (Bq/g)	Ce-144 (Bq/g)	Eu-152 (Bq/g)	Eu-154 (Bq/g)	Eu-155 (Bq/g)
NB6528	TRA/HR/2022/1E91/001/F	Roofing felt	29/06/2022	<0.017	<0.023	<0.080	<0.043	<0.062	<0.028
NB6529	TRA/HR/2022/1E91/003/F	Roofing felt	29/06/2022	<0.0074	<0.0092	<0.030	<0.017	<0.024	<0.012
NB6530	TRA/HR/2022/1E91/004/F	Roofing felt	29/06/2022	<0.013	<0.016	<0.054	<0.030	<0.036	<0.020
NB6531	TRA/HR/2022/1E91/005/F	Roofing felt	29/06/2022	<0.0059	<0.0079	<0.027	<0.015	<0.020	<0.010
NB6532	TRA/HR/2022/1E91/007/F	Roofing felt	29/06/2022	<0.010	<0.013	<0.047	<0.027	<0.033	<0.016
NB6533	TRA/HR/2022/1E91/008/F	Roofing felt	29/06/2022	<0.014	<0.017	<0.057	<0.031	<0.041	<0.021
NB6534	TRA/HR/2022/1E91/009/F	Roofing felt	29/06/2022	<0.0096	<0.012	<0.043	<0.023	<0.032	<0.015
NB6535	TRA/HR/2022/1E91/011/F	Roofing felt	04/07/2022	<0.0051	<0.0058	<0.022	<0.012	<0.017	<0.0079
NB6536	TRA/HR/2022/1E91/013/F	Roofing felt	04/07/2022	<0.011	<0.012	<0.043	<0.024	<0.034	<0.015
NB6537	TRA/HR/2022/1E91/014/F	Roofing felt	04/07/2022	<0.0060	<0.0073	<0.027	<0.015	<0.021	<0.0099
NB6538	TRA/HR/2022/1E91/015/F	Roofing felt	04/07/2022	<0.0091	<0.011	<0.040	<0.024	<0.033	<0.015
NB6539	TRA/HR/2022/1E91/016/F	Roofing felt	04/07/2022	<0.013	<0.016	<0.057	<0.033	<0.047	<0.020
NB6540	TRA/HR/2022/1E91/018/F	Roofing felt	04/07/2022	0.0253 ± 0.0065	<0.0089	<0.035	<0.020	<0.024	<0.012
NB6541	TRA/HR/2022/1E91/019/F	Roofing felt	04/07/2022	<0.0053	<0.0063	<0.024	<0.014	<0.019	<0.0085
NB6542	TRA/HR/2022/1E91/020/F	Roofing felt	04/07/2022	<0.012	<0.012	<0.038	<0.023	<0.040	<0.014
NB6543	TRA/HR/2022/1751/133/M	Metal	28/06/2022	<0.0022	<0.0037	<0.014	<0.0063	<0.0072	<0.0048
NB6544	TRA/HR/2022/1651/134/M	Metal	28/06/2022	<0.0040	<0.0043	<0.014	<0.0080	<0.014	<0.0049
NB6545	TRA/HR/2022/1610/135/P	Paint (flakes)	24/06/2022	<0.026	<0.033	<0.12	<0.071	<0.11	<0.042
NB6546	TRA/HR/2022/1610/137/P	Paint (flakes)	24/06/2022	<0.027	<0.033	<0.13	<0.068	<0.099	<0.040
NB6547	TRA/HR/2022/1610/141/P	Paint (flakes)	24/06/2022	<0.048	<0.063	<0.21	<0.13	<0.20	<0.067

Table 11. Gamma spectrometry for the artificial radionuclides ^{137}Cs , ^{133}Ba , ^{144}Ce , ^{152}Eu , ^{154}Eu , ^{155}Eu . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (4)					
				Cs-137 (Bq/g)	Ba-133 (Bq/g)	Ce-144 (Bq/g)	Eu-152 (Bq/g)	Eu-154 (Bq/g)	Eu-155 (Bq/g)
NB6548	TRA/HR/2022/1610/145/P	Paint (flakes)	24/06/2022	<0.029	<0.034	<0.091	<0.064	<0.13	<0.033
NB6549	TRA/HR/2022/1610/147/P	Paint (flakes)	27/06/2022	<0.035	<0.058	<0.20	<0.12	<0.13	<0.065
NB6550	TRA/HR/2022/1610/151/P	Paint (flakes)	27/06/2022	<0.037	<0.046	<0.16	<0.092	<0.13	<0.057
NB6551	TRA/HR/2022/1610/154/P	Paint (flakes)	27/06/2022	<0.027	<0.036	<0.13	<0.065	<0.099	<0.042
NB6552	TRA/HR/2022/1610/157/P	Paint (flakes)	27/06/2022	<0.047	<0.061	<0.20	<0.12	<0.19	<0.069
NB6553	TRA/HR/2022/1610/159/P	Paint (flakes)	27/06/2022	<0.042	<0.049	<0.14	<0.091	<0.16	<0.047
NB6554	TRA/HR/2022/1610/160/P	Paint (flakes)	27/06/2022	<0.030	<0.051	<0.17	<0.11	<0.10	<0.060
NB6555	TRA/HR/2022/1610/163/P	Paint (flakes)	28/06/2022	<0.034	<0.045	<0.15	<0.084	<0.15	<0.050
NB6556	TRA/HR/2022/1610/167/P	Paint (flakes)	28/06/2022	<0.016	<0.022	<0.075	<0.041	<0.065	<0.027
NB6557	TRA/HR/2022/1670/170/P	Paint (flakes)	28/06/2022	<0.024	<0.030	<0.096	<0.059	<0.092	<0.034
NB6558	TRA/HR/2022/1670/172/P	Paint (flakes)	28/06/2022	<0.040	<0.047	<0.14	<0.095	<0.18	<0.050
NB6559	TRA/HR/2022/1670/174/P	Paint (flakes)	28/06/2022	<0.048	<0.081	<0.27	<0.17	<0.17	<0.096
NB6560	TRA/HR/2022/1670/175/P	Paint (flakes)	28/06/2022	<0.13	<0.16	<0.48	<0.31	<0.53	<0.16
NB6561	TRA/HR/2022/1670/176/P	Paint (flakes)	29/06/2022	<0.025	<0.032	<0.12	<0.062	<0.10	<0.039
NB6562	TRA/HR/2022/1670/177/P	Paint (flakes)	29/06/2022	<0.061	<0.096	<0.32	<0.20	<0.20	<0.12
NB6563	TRA/HR/2022/1670/178/P	Paint (flakes)	29/06/2022	<0.13	<0.15	<0.50	<0.31	<0.45	<0.19
NB6564	TRA/HR/2022/1670/179/P	Paint (flakes)	29/06/2022	<0.052	<0.090	<0.30	<0.19	<0.19	<0.11
NB6565	TRA/HR/2022/1605/232/O	Oil / Grease	11/07/2022	<0.012	<0.016	<0.050	<0.032	<0.048	<0.017
NB6566	TRA/HR/2022/1605/233/O	Oil / Grease	11/07/2022	<0.019	<0.022	<0.058	<0.040	<0.069	<0.022
NB6567	TRA/HR/2022/1740/234/O	Oil / Grease	11/07/2022	<0.033	<0.055	<0.19	<0.11	<0.11	<0.065

Table 11. Gamma spectrometry for the artificial radionuclides ¹³⁷Cs, ¹³³Ba, ¹⁴⁴Ce, ¹⁵²Eu, ¹⁵⁴Eu, ¹⁵⁵Eu. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (4)					
				Cs-137 (Bq/g)	Ba-133 (Bq/g)	Ce-144 (Bq/g)	Eu-152 (Bq/g)	Eu-154 (Bq/g)	Eu-155 (Bq/g)
NB6568	TRA/HR/2022/1740/235/O	Oil / Grease	11/07/2022	<0.0034	<0.0048	<0.015	<0.0081	<0.011	<0.0054
NB6569	TRA/HR/2022/1E91/021/C	Concrete	22/06/2022	<0.0017	<0.0026	<0.0088	<0.0039	<0.0053	<0.0031
NB6570	TRA/HR/2022/1E91/024/C	Concrete	22/06/2022	<0.0018	<0.0021	<0.0072	<0.0036	<0.0064	<0.0025
NB6571	TRA/HR/2022/1E91/025/C	Concrete	22/06/2022	<0.0015	<0.0031	<0.0095	<0.0039	<0.0039	<0.0036
NB6572	TRA/HR/2022/1E91/026/C	Concrete	22/06/2022	0.0041 ± 0.0016	<0.0032	<0.010	<0.0049	<0.0064	<0.0037
NB6573	TRA/HR/2022/1E91/028/C	Concrete	22/06/2022	<0.0027	<0.0034	<0.012	<0.0060	<0.0086	<0.0041
NB6574	TRA/HR/2022/1E91/032/C	Concrete	22/06/2022	<0.0020	<0.0022	<0.0075	<0.0040	<0.0073	<0.0027
NB6575	TRA/HR/2022/1E91/033/C	Concrete	22/06/2022	<0.0016	<0.0038	<0.012	<0.0048	<0.0048	<0.0041
NB6576	TRA/HR/2022/1E91/034/C	Concrete	22/06/2022	0.0044 ± 0.0013	<0.0033	<0.0087	<0.0037	<0.0050	<0.0032
NB6577	TRA/HR/2022/1E91/037/C	Concrete	22/06/2022	0.0037 ± 0.0015	<0.0030	<0.010	<0.0042	<0.0065	<0.0035
NB6578	TRA/HR/2022/1E91/038/C	Concrete	22/06/2022	0.011 ± 0.0019	<0.0022	<0.0077	<0.0041	<0.0066	<0.0028
NB6579	TRA/HR/2022/1960/041/C	Concrete	14/06/2022	<0.0031	<0.0068	<0.020	<0.0093	<0.011	<0.0071
NB6580	TRA/HR/2022/1960/042/C	Concrete	14/06/2022	<0.0028	<0.0038	<0.013	<0.0062	<0.0091	<0.0043
NB6581	TRA/HR/2022/1960/044/C	Concrete	14/06/2022	<0.0019	<0.0029	<0.0096	<0.0045	<0.0064	<0.0034
NB6582	TRA/HR/2022/1960/046/C	Concrete	14/06/2022	<0.0020	<0.0023	<0.0081	<0.0044	<0.0073	<0.0028
NB6583	TRA/HR/2022/1960/047/C	Concrete	14/06/2022	<0.0019	<0.0042	<0.013	<0.0057	<0.0064	<0.0047
NB6584	TRA/HR/2022/1960/049/C	Concrete	14/06/2022	<0.0020	<0.0036	<0.012	<0.0054	<0.0072	<0.0041
NB6585	TRA/HR/2022/1960/050/C	Concrete	14/06/2022	<0.0027	<0.0041	<0.014	<0.0073	<0.0096	<0.0048
NB6586	TRA/HR/2022/1960/051/C	Concrete	16/06/2022	<0.0019	<0.0023	<0.0079	<0.0041	<0.0070	<0.0027
NB6587	TRA/HR/2022/1960/052/C	Concrete	16/06/2022	<0.0021	<0.0043	<0.014	<0.0058	<0.0070	<0.0049

Table 11. Gamma spectrometry for the artificial radionuclides ^{137}Cs , ^{133}Ba , ^{144}Ce , ^{152}Eu , ^{154}Eu , ^{155}Eu . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (4)					
				Cs-137 (Bq/g)	Ba-133 (Bq/g)	Ce-144 (Bq/g)	Eu-152 (Bq/g)	Eu-154 (Bq/g)	Eu-155 (Bq/g)
NB6588	TRA/HR/2022/1960/053/C	Concrete	16/06/2022	<0.0023	<0.0039	<0.012	<0.0061	<0.0088	<0.0044
NB6589	TRA/HR/2022/1960/054/C	Concrete	16/06/2022	<0.0020	<0.0032	<0.011	<0.0046	<0.0070	<0.0037
NB6590	TRA/HR/2022/1960/055/C	Concrete	16/06/2022	<0.0031	<0.0033	<0.013	<0.0063	<0.012	<0.0041
NB6591	TRA/HR/2022/1960/056/C	Concrete	16/06/2022	<0.0025	<0.0048	<0.016	<0.0069	<0.0076	<0.0054
NB6592	TRA/HR/2022/1960/057/C	Concrete	16/06/2022	<0.0031	<0.0049	<0.016	<0.0080	<0.0099	<0.0054
NB6593	TRA/HR/2022/1960/058/C	Concrete	16/06/2022	<0.0027	<0.0040	<0.014	<0.0069	<0.0098	<0.0046
NB6594	TRA/HR/2022/1960/060/C	Concrete	16/06/2022	0.0056 ± 0.0018	<0.0023	<0.0080	<0.0044	<0.0072	<0.0028
NB6595	TRA/HR/2022/1960/061/C	Concrete	24/06/2022	<0.0014	<0.0034	<0.011	<0.0043	<0.0042	<0.0037
NB6596	TRA/HR/2022/1960/062/C	Concrete	24/06/2022	<0.0021	<0.0034	<0.011	<0.0053	<0.0067	<0.0038
NB6597	TRA/HR/2022/1960/063/C	Concrete	24/06/2022	<0.0026	<0.0034	<0.012	<0.0060	<0.0088	<0.0040
NB6598	TRA/HR/2022/1960/064/C	Concrete	24/06/2022	<0.0019	<0.0023	<0.0077	<0.0042	<0.0070	<0.0029
NB6599	TRA/HR/2022/1970/065/C	Concrete	21/06/2022	<0.0029	<0.0056	<0.018	<0.0087	<0.0096	<0.0063
NB6600	TRA/HR/2022/1970/066/C	Concrete	21/06/2022	<0.0019	<0.0030	<0.0095	<0.0047	<0.0067	<0.0034
NB6601	TRA/HR/2022/1970/068/C	Concrete	21/06/2022	<0.0026	<0.0039	<0.013	<0.0065	<0.0094	<0.0043
NB6602	TRA/HR/2022/1970/071/C	Concrete	21/06/2022	<0.0018	<0.0023	<0.0077	<0.0041	<0.0071	<0.0028
NB6603	TRA/HR/2022/1970/072/C	Concrete	21/06/2022	<0.0018	<0.0039	<0.013	<0.0051	<0.0058	<0.0043
NB6604	TRA/HR/2022/1970/073/C	Concrete	21/06/2022	<0.0027	<0.0041	<0.014	<0.0066	<0.0089	<0.0048
NB6605	TRA/HR/2022/1970/074/C	Concrete	21/06/2022	<0.0019	<0.0031	<0.010	<0.0047	<0.0059	<0.0035
NB6606	TRA/HR/2022/1970/077/C	Concrete	21/06/2022	0.0042 ± 0.0014	<0.0020	<0.0072	<0.0039	<0.0055	<0.0025
NB6607	TRA/HR/2022/1970/078/C	Concrete	21/06/2022	<0.0018	<0.0041	<0.013	<0.0054	<0.0061	<0.0045

Table 11. Gamma spectrometry for the artificial radionuclides ¹³⁷Cs, ¹³³Ba, ¹⁴⁴Ce, ¹⁵²Eu, ¹⁵⁴Eu, ¹⁵⁵Eu. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (4)					
				Cs-137 (Bq/g)	Ba-133 (Bq/g)	Ce-144 (Bq/g)	Eu-152 (Bq/g)	Eu-154 (Bq/g)	Eu-155 (Bq/g)
NB6608	TRA/HR/2022/1970/079/C	Concrete	21/06/2022	<0.0020	<0.0035	<0.011	<0.0055	<0.0072	<0.0039
NB6609	TRA/HR/2022/1970/080/C	Concrete	21/06/2022	<0.0019	<0.0030	<0.010	<0.0046	<0.0071	<0.0035
NB6610	TRA/HR/2022/1970/082/C	Concrete	21/06/2022	<0.0018	<0.0022	<0.0075	<0.0038	<0.0068	<0.0027
NB6611	TRA/HR/2022/1970/083/C	Concrete	21/06/2022	<0.0018	<0.0040	<0.013	<0.0055	<0.0064	<0.0045
NB6612	TRA/HR/2022/1970/084/C	Concrete	21/06/2022	<0.0012	<0.0022	<0.0075	<0.0030	<0.0041	<0.0026
NB6613	TRA/HR/2022/1970/085/C	Concrete	23/06/2022	<0.0011	<0.0021	<0.0069	<0.0029	<0.0034	<0.0025
NB6614	TRA/HR/2022/1970/086/C	Concrete	23/06/2022	<0.0012	<0.0020	<0.0068	<0.0028	<0.0036	<0.0024
NB6615	TRA/HR/2022/1970/087/C	Concrete	23/06/2022	0.00369 ± 0.00099	<0.0022	<0.0076	<0.0033	<0.0040	<0.0028
NB6616	TRA/HR/2022/1970/088/C	Concrete	23/06/2022	0.0074 ± 0.0018	<0.0025	<0.0090	<0.0049	<0.0073	<0.0032
NB6617	TRA/HR/2022/1901/089/C	Concrete	23/05/2022	<0.0029	<0.0042	<0.016	<0.0074	<0.011	<0.0051
NB6618	TRA/HR/2022/1901/090/C	Concrete	23/05/2022	<0.0018	<0.0022	<0.0080	<0.0039	<0.0070	<0.0027
NB6619	TRA/HR/2022/1901/091/C	Concrete	23/05/2022	<0.0023	<0.0051	<0.017	<0.0069	<0.0082	<0.0055
NB6620	TRA/HR/2022/1901/092/C	Concrete	23/05/2022	<0.0031	<0.0044	<0.015	<0.0068	<0.0098	<0.0052
NB6621	TRA/HR/2022/1901/093/C	Concrete	23/05/2022	<0.0028	<0.0040	<0.015	<0.0069	<0.0097	<0.0049
NB6622	TRA/HR/2022/1951/094/C	Concrete	23/05/2022	<0.0020	<0.0023	<0.0087	<0.0043	<0.0066	<0.0029
NB6623	TRA/HR/2022/1951/095/C	Concrete	23/05/2022	<0.0018	<0.0040	<0.014	<0.0052	<0.0064	<0.0045
NB6624	TRA/HR/2022/1951/096/C	Concrete	23/05/2022	<0.0019	<0.0032	<0.011	<0.0047	<0.0063	<0.0036
NB6625	TRA/HR/2022/1951/097/C	Concrete	23/05/2022	<0.0012	<0.0022	<0.0075	<0.0029	<0.0040	<0.0025
NB6626	TRA/HR/2022/1951/098/C	Concrete	23/05/2022	<0.0018	<0.0030	<0.011	<0.0043	<0.0064	<0.0035
NB6627	TRA/HR/2022/1601/099/C	Concrete	24/05/2022	<0.0028	<0.0029	<0.011	<0.0055	<0.0097	<0.0036

Table 11. Gamma spectrometry for the artificial radionuclides ^{137}Cs , ^{133}Ba , ^{144}Ce , ^{152}Eu , ^{154}Eu , ^{155}Eu . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (4)					
				Cs-137 (Bq/g)	Ba-133 (Bq/g)	Ce-144 (Bq/g)	Eu-152 (Bq/g)	Eu-154 (Bq/g)	Eu-155 (Bq/g)
NB6628	TRA/HR/2022/1602/104/C	Concrete	24/05/2022	<0.0017	<0.0038	<0.013	<0.0051	<0.0052	<0.0044
NB6629	TRA/HR/2022/1603/105/C	Concrete	24/05/2022	<0.0017	<0.0029	<0.011	<0.0043	<0.0060	<0.0035
NB6630	TRA/HR/2022/1651/100/C	Concrete	22/06/2022	<0.00097	<0.0021	<0.0069	<0.0026	<0.0035	<0.0025
NB6631	TRA/HR/2022/1651/101/C	Concrete	22/06/2022	<0.0014	<0.0025	<0.0083	<0.0037	<0.0051	<0.0030
NB6632	TRA/HR/2022/1651/102/C	Concrete	22/06/2022	<0.0015	<0.0020	<0.0070	<0.0035	<0.0060	<0.0025
NB6633	TRA/HR/2022/1651/103/C	Concrete	22/06/2022	<0.0015	<0.0036	<0.012	<0.0046	<0.0046	<0.0041
NB6634	TRA/HR/2022/1762/111/C	Concrete	24/05/2022	<0.0016	<0.0029	<0.011	<0.0042	<0.0058	<0.0034
NB6635	TRA/HR/2022/1652/106/C	Concrete	23/06/2022	<0.0018	<0.0030	<0.0090	<0.0041	<0.0060	<0.0031
NB6636	TRA/HR/2022/1652/107/C	Concrete	23/06/2022	<0.0019	<0.0031	<0.011	<0.0049	<0.0061	<0.0035
NB6637	TRA/HR/2022/1761/108/C	Concrete	23/05/2022	<0.0011	<0.0022	<0.0077	<0.0030	<0.0040	<0.0025
NB6638	TRA/HR/2022/1652/109/C	Concrete	23/06/2022	<0.0013	<0.0023	<0.0079	<0.0033	<0.0047	<0.0028
NB6639	TRA/HR/2022/1652/110/C	Concrete	23/06/2022	<0.0015	<0.0020	<0.0070	<0.0034	<0.0055	<0.0025
NB6640	TRA/HR/2022/1763/114/C	Concrete	24/05/2022	<0.0016	<0.0038	<0.013	<0.0049	<0.0048	<0.0043
NB6641	TRA/HR/2022/1653/112/C	Concrete	23/06/2022	<0.0016	<0.0026	<0.0087	<0.0041	<0.0057	<0.0031
NB6642	TRA/HR/2022/1653/113/C	Concrete	23/06/2022	<0.0015	<0.0027	<0.0086	<0.0037	<0.0048	<0.0030
NB6643	TRA/HR/2022/1653/115/C	Concrete	23/06/2022	<0.00089	<0.0018	<0.0060	<0.0025	<0.0030	<0.0022
NB6644	TRA/HR/2022/1653/116/C	Concrete	23/06/2022	<0.0013	<0.0023	<0.0078	<0.0033	<0.0045	<0.0027
NB6645	TRA/HR/2022/1507/117/C	Concrete	25/05/2022	<0.0016	<0.0019	<0.0072	<0.0034	<0.0064	<0.0024
NB6646	TRA/HR/2022/1507/118/C	Concrete	25/05/2022	<0.0025	<0.0050	<0.017	<0.0069	<0.0080	<0.0054
NB6647	TRA/HR/2022/1508/119/C	Concrete	25/05/2022	<0.0009	<0.0019	<0.0067	<0.0027	<0.0033	<0.0023

Table 11. Gamma spectrometry for the artificial radionuclides ^{137}Cs , ^{133}Ba , ^{144}Ce , ^{152}Eu , ^{154}Eu , ^{155}Eu . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (4)					
				Cs-137 (Bq/g)	Ba-133 (Bq/g)	Ce-144 (Bq/g)	Eu-152 (Bq/g)	Eu-154 (Bq/g)	Eu-155 (Bq/g)
NB6648	TRA/HR/2022/1508/120/C	Concrete	25/05/2022	<0.0012	<0.0021	<0.0072	<0.0030	<0.0037	<0.0024
NB6649	TRA/HR/2022/1509/121/C	Concrete	25/05/2022	<0.0011	<0.0020	<0.0069	<0.0027	<0.0038	<0.0023
NB6650	TRA/HR/2022/1509/122/C	Concrete	25/05/2022	<0.0014	<0.0023	<0.0084	<0.0036	<0.0047	<0.0028
NB6651	TRA/HR/2022/1751/123/C	Concrete	25/05/2022	<0.0015	<0.0019	<0.0072	<0.0032	<0.0055	<0.0024
NB6652	TRA/HR/2022/1751/124/C	Concrete	25/05/2022	<0.0018	<0.0040	<0.014	<0.0052	<0.0059	<0.0044
NB6653	TRA/HR/2022/1752/125/C	Concrete	25/05/2022	<0.0016	<0.0036	<0.012	<0.0046	<0.0051	<0.0039
NB6654	TRA/HR/2022/1752/126/C	Concrete	25/05/2022	<0.0015	<0.0027	<0.0092	<0.0039	<0.0052	<0.0032
NB6655	TRA/HR/2022/1753/127/C	Concrete	25/05/2022	<0.0017	<0.0027	<0.0097	<0.0042	<0.0060	<0.0033
NB6656	TRA/HR/2022/1753/128/C	Concrete	25/05/2022	<0.0017	<0.0027	<0.0098	<0.0043	<0.0055	<0.0032
NB6657	TRA/HR/2022/1610/180/C	Concrete	29/06/2022	<0.0015	<0.0019	<0.0068	<0.0035	<0.0059	<0.0024
NB6658	TRA/HR/2022/1610/181/C	Concrete	29/06/2022	<0.0015	<0.0018	<0.0063	<0.0031	<0.0055	<0.0023
NB6659	TRA/HR/2022/1610/182/C	Concrete	29/06/2022	<0.0018	<0.0023	<0.0076	<0.0040	<0.0075	<0.0028
NB6660	TRA/HR/2022/1610/183/C	Concrete	29/06/2022	<0.0014	<0.0026	<0.0083	<0.0037	<0.0048	<0.0030
NB6661	TRA/HR/2022/1610/184/C	Concrete	29/06/2022	<0.0016	<0.0035	<0.011	<0.0047	<0.0046	<0.0041
NB6662	TRA/HR/2022/1605/190/C	Concrete	26/05/2022	<0.0012	<0.0022	<0.0077	<0.0032	<0.0042	<0.0026
NB6663	TRA/HR/2022/1605/191/C	Concrete	26/05/2022	<0.0015	<0.0019	<0.0072	<0.0035	<0.0060	<0.0025
NB6664	TRA/HR/2022/1605/192/C	Concrete	26/05/2022	<0.0017	<0.0036	<0.012	<0.0046	<0.0054	<0.0040
NB6665	TRA/HR/2022/1605/193/C	Concrete	26/05/2022	<0.0015	<0.0027	<0.0088	<0.0035	<0.0047	<0.0030
NB6666	TRA/HR/2022/1605/195/C	Concrete	26/05/2022	<0.0013	<0.0024	<0.0085	<0.0033	<0.0043	<0.0028
NB6667	TRA/HR/2022/1605/196/C	Concrete	26/05/2022	<0.0012	<0.0020	<0.0070	<0.0027	<0.0037	<0.0024

Table 11. Gamma spectrometry for the artificial radionuclides ¹³⁷Cs, ¹³³Ba, ¹⁴⁴Ce, ¹⁵²Eu, ¹⁵⁴Eu, ¹⁵⁵Eu. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (4)					
				Cs-137 (Bq/g)	Ba-133 (Bq/g)	Ce-144 (Bq/g)	Eu-152 (Bq/g)	Eu-154 (Bq/g)	Eu-155 (Bq/g)
NB6668	TRA/HR/2022/1605/197/C	Concrete	26/05/2022	<0.0013	<0.0023	<0.0085	<0.0035	<0.0048	<0.0028
NB6669	TRA/HR/2022/1605/198/C	Concrete	26/05/2022	<0.0015	<0.0019	<0.0072	<0.0034	<0.0057	<0.0024
NB6670	TRA/HR/2022/1605/201/C	Concrete	01/06/2022	<0.0020	<0.0046	<0.015	<0.0061	<0.0057	<0.0050
NB6671	TRA/HR/2022/1605/203/C	Concrete	01/06/2022	<0.0013	<0.0023	<0.0082	<0.0032	<0.0048	<0.0028
NB6672	TRA/HR/2022/1605/204/C	Concrete	01/06/2022	<0.0017	<0.0027	<0.0094	<0.0042	<0.0061	<0.0032
NB6673	TRA/HR/2022/1605/205/C	Concrete	01/06/2022	<0.0015	<0.0033	<0.011	<0.0042	<0.0045	<0.0036
NB6674	TRA/HR/2022/1605/206/C	Concrete	01/06/2022	<0.0014	<0.0031	<0.011	<0.0040	<0.0039	<0.0035
NB6675	TRA/HR/2022/1605/209/C	Concrete	01/06/2022	<0.0019	<0.0021	<0.0078	<0.0038	<0.0075	<0.0026
NB6676	TRA/HR/2022/1771/211/C	Concrete	08/06/2022	<0.0017	<0.0035	<0.0097	<0.0044	<0.0060	<0.0033
NB6677	TRA/HR/2022/1771/212/C	Concrete	08/06/2022	<0.0015	<0.0026	<0.0090	<0.0038	<0.0053	<0.0031
NB6678	TRA/HR/2022/1754/213/C	Concrete	08/06/2022	<0.0015	<0.0027	<0.0091	<0.0039	<0.0052	<0.0032
NB6679	TRA/HR/2022/1754/215/C	Concrete	08/06/2022	<0.0017	<0.0029	<0.0095	<0.0044	<0.0055	<0.0033
NB6680	TRA/HR/2022/1771/218/C	Concrete	08/06/2022	<0.0015	<0.0026	<0.0089	<0.0039	<0.0053	<0.0030
NB6681	TRA/HR/2022/1755/219/C	Concrete	09/06/2022	<0.0018	<0.0033	<0.011	<0.0049	<0.0067	<0.0036
NB6682	TRA/HR/2022/1771/220/C	Concrete	09/06/2022	<0.0014	<0.0032	<0.011	<0.0041	<0.0042	<0.0036
NB6683	TRA/HR/2022/1771/221/C	Concrete	09/06/2022	<0.0013	<0.0033	<0.011	<0.0040	<0.0040	<0.0036
NB6684	TRA/HR/2022/1771/223/C	Concrete	09/06/2022	<0.0011	<0.0020	<0.0067	<0.0028	<0.0036	<0.0024
NB6685	TRA/HR/2022/1771/226/C	Concrete	09/06/2022	<0.0017	<0.0029	<0.0098	<0.0045	<0.0061	<0.0034
NB6686	TRA/HR/2022/1755/227/C	Concrete	09/06/2022	<0.0011	<0.0021	<0.0072	<0.0029	<0.0039	<0.0025
NB7034	TRA/HR/2022/2E91/001/F	Roofing felt	07/07/2022	<0.0096	<0.013	<0.048	<0.025	<0.034	<0.017

Table 11. Gamma spectrometry for the artificial radionuclides ¹³⁷Cs, ¹³³Ba, ¹⁴⁴Ce, ¹⁵²Eu, ¹⁵⁴Eu, ¹⁵⁵Eu. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (4)					
				Cs-137 (Bq/g)	Ba-133 (Bq/g)	Ce-144 (Bq/g)	Eu-152 (Bq/g)	Eu-154 (Bq/g)	Eu-155 (Bq/g)
NB7035	TRA/HR/2022/2E91/003/F	Roofing felt	07/07/2022	<0.0068	<0.0089	<0.033	<0.018	<0.025	<0.012
NB7036	TRA/HR/2022/2E91/004/F	Roofing felt	07/07/2022	<0.0071	<0.0077	<0.027	<0.016	<0.025	<0.0094
NB7037	TRA/HR/2022/2E91/005/F	Roofing felt	07/07/2022	<0.0040	<0.0054	<0.021	<0.011	<0.013	<0.0072
NB7038	TRA/HR/2022/2E91/007/F	Roofing felt	07/07/2022	<0.0091	<0.012	<0.045	<0.024	<0.030	<0.016
NB7039	TRA/HR/2022/2E91/008/F	Roofing felt	07/07/2022	0.0091 ± 0.0028	<0.0051	<0.018	<0.0090	<0.011	<0.0063
NB7040	TRA/HR/2022/2E91/009/F	Roofing felt	07/07/2022	<0.0035	<0.0051	<0.019	<0.0095	<0.012	<0.0065
NB7041	TRA/HR/2022/2E91/011/F	Roofing felt	07/07/2022	0.0207 ± 0.0043	<0.0060	<0.023	<0.012	<0.012	<0.0079
NB7042	TRA/HR/2022/2E91/013/F	Roofing felt	07/07/2022	<0.0054	<0.0059	<0.021	<0.012	<0.020	<0.0071
NB7043	TRA/HR/2022/2E91/014/F	Roofing felt	07/07/2022	<0.0048	<0.0071	<0.025	<0.013	<0.016	<0.0090
NB7044	TRA/HR/2022/2E91/015/F	Roofing felt	07/07/2022	<0.0062	<0.0073	<0.029	<0.015	<0.019	<0.0098
NB7045	TRA/HR/2022/2E91/016/F	Roofing felt	07/07/2022	<0.0083	<0.0083	<0.030	<0.018	<0.031	<0.011
NB7046	TRA/HR/2022/2E91/018/F	Roofing felt	07/07/2022	<0.011	<0.018	<0.064	<0.029	<0.032	<0.022
NB7047	TRA/HR/2022/2E91/019/F	Roofing felt	07/07/2022	<0.0068	<0.012	<0.039	<0.018	<0.020	<0.014
NB7048	TRA/HR/2022/2E91/020/F	Roofing felt	07/07/2022	<0.0062	<0.0090	<0.033	<0.016	<0.020	<0.012
NB7049	TRA/HR/2022/2610/136/P	Paint (flakes)	27/07/2022	<0.029	<0.039	<0.12	<0.074	<0.12	<0.042
NB7050	TRA/HR/2022/2610/139/P	Paint (flakes)	27/07/2022	<0.025	<0.031	<0.084	<0.057	<0.11	<0.030
NB7051	TRA/HR/2022/2610/142/P	Paint (flakes)	27/07/2022	<0.037	<0.065	<0.21	<0.13	<0.13	<0.072
NB7052	TRA/HR/2022/2610/144/P	Paint (flakes)	27/07/2022	<0.023	<0.031	<0.11	<0.055	<0.088	<0.037
NB7053	TRA/HR/2022/2610/146/P	Paint (flakes)	27/07/2022	<0.028	<0.036	<0.13	<0.069	<0.11	<0.044
NB7054	TRA/HR/2022/2610/149/P	Paint (flakes)	27/07/2022	<0.026	<0.035	<0.11	<0.065	<0.11	<0.037

Table 11. Gamma spectrometry for the artificial radionuclides ^{137}Cs , ^{133}Ba , ^{144}Ce , ^{152}Eu , ^{154}Eu , ^{155}Eu . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (4)					
				Cs-137 (Bq/g)	Ba-133 (Bq/g)	Ce-144 (Bq/g)	Eu-152 (Bq/g)	Eu-154 (Bq/g)	Eu-155 (Bq/g)
NB7055	TRA/HR/2022/2610/152/P	Paint (flakes)	27/07/2022	<0.044	<0.053	<0.14	<0.10	<0.18	<0.049
NB7056	TRA/HR/2022/2610/154/P	Paint (flakes)	27/07/2022	<0.035	<0.058	<0.20	<0.12	<0.12	<0.070
NB7057	TRA/HR/2022/2610/158/P	Paint (flakes)	27/07/2022	<0.038	<0.052	<0.16	<0.097	<0.18	<0.056
NB7058	TRA/HR/2022/2610/161/P	Paint (flakes)	27/07/2022	<0.030	<0.039	<0.13	<0.074	<0.12	<0.046
NB7059	TRA/HR/2022/2610/163/P	Paint (flakes)	27/07/2022	<0.022	<0.030	<0.099	<0.057	<0.090	<0.037
NB7060	TRA/HR/2022/2610/166/P	Paint (flakes)	27/07/2022	<0.044	<0.058	<0.19	<0.12	<0.19	<0.065
NB7061	TRA/HR/2022/2610/169/P	Paint (flakes)	27/07/2022	<0.046	<0.063	<0.20	<0.12	<0.19	<0.067
NB7062	TRA/HR/2022/2670/171/P	Paint (flakes)	28/07/2022	<0.046	<0.061	<0.20	<0.12	<0.19	<0.067
NB7063	TRA/HR/2022/2670/173/P	Paint (flakes)	28/07/2022	<0.047	<0.066	<0.21	<0.13	<0.19	<0.070
NB7064	TRA/HR/2022/2670/175/P	Paint (flakes)	28/07/2022	<0.074	<0.087	<0.24	<0.17	<0.29	<0.084
NB7065	TRA/HR/2022/2670/176/P	Paint (flakes)	28/07/2022	<0.11	<0.13	<0.35	<0.25	<0.43	<0.13
NB7066	TRA/HR/2022/2670/177/P	Paint (flakes)	28/07/2022	<0.066	<0.081	<0.23	<0.16	<0.27	<0.079
NB7067	TRA/HR/2022/2670/178/P	Paint (flakes)	28/07/2022	<0.062	<0.075	<0.21	<0.14	<0.27	<0.073
NB7068	TRA/HR/2022/2670/179/P	Paint (flakes)	28/07/2022	<0.11	<0.18	<0.57	<0.36	<0.37	<0.21
NB7069	TRA/HR/2022/2652/132/M	Metal	04/07/2022	<0.0027	<0.0043	<0.016	<0.0074	<0.0078	<0.0054
NB7070	TRA/HR/2022/2652/134/M	Metal	04/07/2022	<0.0098	<0.016	<0.056	<0.026	<0.029	<0.020
NB7071	TRA/HR/2022/2E91/022/C	Concrete	07/07/2022	<0.0016	<0.0033	<0.011	<0.0044	<0.0042	<0.0038
NB7072	TRA/HR/2022/2E91/024/C	Concrete	07/07/2022	0.0044 ± 0.0014	<0.0040	<0.012	<0.0049	<0.0049	<0.0043
NB7073	TRA/HR/2022/2E91/027/C	Concrete	07/07/2022	0.00329 ± 0.00091	<0.0021	<0.0068	<0.0027	<0.0036	<0.0024
NB7074	TRA/HR/2022/2E91/028/C	Concrete	07/07/2022	<0.0012	<0.0020	<0.0068	<0.0028	<0.0037	<0.0025

Table 11. Gamma spectrometry for the artificial radionuclides ¹³⁷Cs, ¹³³Ba, ¹⁴⁴Ce, ¹⁵²Eu, ¹⁵⁴Eu, ¹⁵⁵Eu. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (4)					
				Cs-137 (Bq/g)	Ba-133 (Bq/g)	Ce-144 (Bq/g)	Eu-152 (Bq/g)	Eu-154 (Bq/g)	Eu-155 (Bq/g)
NB7075	TRA/HR/2022/2E91/030/C	Concrete	07/07/2022	<0.0009	<0.0018	<0.0060	<0.0023	<0.0030	<0.0021
NB7076	TRA/HR/2022/2E91/033/C	Concrete	07/07/2022	0.0071 ± 0.0015	<0.0019	<0.0065	<0.0032	<0.0058	<0.0024
NB7077	TRA/HR/2022/2E91/034/C	Concrete	07/07/2022	<0.0016	<0.0019	<0.0066	<0.0031	<0.0052	<0.0024
NB7078	TRA/HR/2022/2E91/036/C	Concrete	07/07/2022	0.0038 ± 0.0013	<0.0020	<0.0067	<0.0032	<0.0056	<0.0024
NB7079	TRA/HR/2022/2E91/037/C	Concrete	07/07/2022	<0.0016	<0.0019	<0.0068	<0.0032	<0.0052	<0.0024
NB7080	TRA/HR/2022/2E91/039/C	Concrete	07/07/2022	<0.0017	<0.0024	<0.0076	<0.0036	<0.0059	<0.0029
NB7081	TRA/HR/2022/2970/041/C	Concrete	12/07/2022	<0.0030	<0.0046	<0.015	<0.0073	<0.0096	<0.0053
NB7082	TRA/HR/2022/2970/043/C	Concrete	12/07/2022	<0.0015	<0.0026	<0.0082	<0.0041	<0.0052	<0.0031
NB7083	TRA/HR/2022/2970/044/C	Concrete	12/07/2022	<0.0027	<0.0037	<0.013	<0.0066	<0.0095	<0.0044
NB7084	TRA/HR/2022/2970/045/C	Concrete	12/07/2022	<0.0035	<0.0034	<0.012	<0.0065	<0.013	<0.0043
NB7085	TRA/HR/2022/2970/047/C	Concrete	12/07/2022	<0.0017	<0.0039	<0.012	<0.0050	<0.0061	<0.0043
NB7086	TRA/HR/2022/2970/048/C	Concrete	12/07/2022	<0.0026	<0.0040	<0.013	<0.0067	<0.0087	<0.0046
NB7087	TRA/HR/2022/2970/049/C	Concrete	12/07/2022	<0.0012	<0.0023	<0.0071	<0.0029	<0.0038	<0.0026
NB7088	TRA/HR/2022/2970/050/C	Concrete	12/07/2022	<0.0025	<0.0037	<0.011	<0.0061	<0.0084	<0.0042
NB7089	TRA/HR/2022/2970/051/C	Concrete	12/07/2022	<0.0025	<0.0028	<0.0094	<0.0049	<0.0090	<0.0035
NB7090	TRA/HR/2022/2970/052/C	Concrete	12/07/2022	<0.0026	<0.0053	<0.016	<0.0074	<0.0084	<0.0057
NB7091	TRA/HR/2022/2970/053/C	Concrete	12/07/2022	<0.0018	<0.0034	<0.011	<0.0050	<0.0067	<0.0037
NB7092	TRA/HR/2022/2970/054/C	Concrete	12/07/2022	<0.0020	<0.0034	<0.011	<0.0052	<0.0073	<0.0039
NB7093	TRA/HR/2022/2970/055/C	Concrete	12/07/2022	<0.0015	<0.0024	<0.0079	<0.0035	<0.0051	<0.0029
NB7094	TRA/HR/2022/2970/058/C	Concrete	12/07/2022	<0.0016	<0.0020	<0.0068	<0.0035	<0.0061	<0.0025

Table 11. Gamma spectrometry for the artificial radionuclides ¹³⁷Cs, ¹³³Ba, ¹⁴⁴Ce, ¹⁵²Eu, ¹⁵⁴Eu, ¹⁵⁵Eu. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (4)					
				Cs-137 (Bq/g)	Ba-133 (Bq/g)	Ce-144 (Bq/g)	Eu-152 (Bq/g)	Eu-154 (Bq/g)	Eu-155 (Bq/g)
NB7095	TRA/HR/2022/2970/059/C	Concrete	12/07/2022	<0.0013	<0.0030	<0.0094	<0.0039	<0.0039	<0.0035
NB7096	TRA/HR/2022/2970/061/C	Concrete	19/07/2022	<0.0035	<0.0042	<0.014	<0.0080	<0.0097	<0.0050
NB7097	TRA/HR/2022/2970/062/C	Concrete	19/07/2022	<0.0018	<0.0026	<0.0085	<0.0042	<0.0051	<0.0031
NB7098	TRA/HR/2022/2970/063/C	Concrete	19/07/2022	<0.0014	<0.0023	<0.0076	<0.0036	<0.0048	<0.0029
NB7099	TRA/HR/2022/2970/064/C	Concrete	19/07/2022	<0.0015	<0.0019	<0.0064	<0.0031	<0.0057	<0.0024
NB7100	TRA/HR/2022/2960/065/C	Concrete	26/07/2022	<0.0029	<0.0058	<0.017	<0.0082	<0.0091	<0.0064
NB7101	TRA/HR/2022/2960/067/C	Concrete	26/07/2022	<0.0018	<0.0031	<0.0091	<0.0047	<0.0068	<0.0035
NB7102	TRA/HR/2022/2960/068/C	Concrete	26/07/2022	<0.0012	<0.0021	<0.0066	<0.0030	<0.0040	<0.0025
NB7103	TRA/HR/2022/2960/070/C	Concrete	26/07/2022	<0.0027	<0.0038	<0.012	<0.0062	<0.0097	<0.0045
NB7104	TRA/HR/2022/2960/071/C	Concrete	26/07/2022	<0.0031	<0.0033	<0.011	<0.0057	<0.012	<0.0039
NB7105	TRA/HR/2022/2960/072/C	Concrete	26/07/2022	<0.0020	<0.0046	<0.014	<0.0059	<0.0072	<0.0050
NB7106	TRA/HR/2022/2960/073/C	Concrete	26/07/2022	<0.0016	<0.0029	<0.0093	<0.0040	<0.0059	<0.0035
NB7107	TRA/HR/2022/2960/074/C	Concrete	26/07/2022	<0.0011	<0.0023	<0.0068	<0.0030	<0.0037	<0.0026
NB7108	TRA/HR/2022/2960/075/C	Concrete	26/07/2022	<0.0015	<0.0026	<0.0082	<0.0038	<0.0053	<0.0031
NB7109	TRA/HR/2022/2960/076/C	Concrete	26/07/2022	<0.0019	<0.0022	<0.0072	<0.0038	<0.0071	<0.0027
NB7110	TRA/HR/2022/2960/077/C	Concrete	26/07/2022	<0.0017	<0.0038	<0.012	<0.0048	<0.0057	<0.0042
NB7111	TRA/HR/2022/2960/079/C	Concrete	26/07/2022	0.0045 ± 0.0015	<0.0029	<0.0089	<0.0047	<0.0057	<0.0033
NB7112	TRA/HR/2022/2960/082/C	Concrete	26/07/2022	<0.0013	<0.0022	<0.0070	<0.0033	<0.0040	<0.0026
NB7113	TRA/HR/2022/2960/083/C	Concrete	26/07/2022	<0.0026	<0.0037	<0.012	<0.0065	<0.0098	<0.0043
NB7114	TRA/HR/2022/2960/084/C	Concrete	26/07/2022	<0.0023	<0.0026	<0.0085	<0.0046	<0.0094	<0.0032

Table 11. Gamma spectrometry for the artificial radionuclides ^{137}Cs , ^{133}Ba , ^{144}Ce , ^{152}Eu , ^{154}Eu , ^{155}Eu . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (4)					
				Cs-137 (Bq/g)	Ba-133 (Bq/g)	Ce-144 (Bq/g)	Eu-152 (Bq/g)	Eu-154 (Bq/g)	Eu-155 (Bq/g)
NB7115	TRA/HR/2022/2960/085/C	Concrete	26/07/2022	<0.0016	<0.0038	<0.012	<0.0051	<0.0048	<0.0041
NB7116	TRA/HR/2022/2960/086/C	Concrete	26/07/2022	<0.0017	<0.0035	<0.0090	<0.0046	<0.0066	<0.0034
NB7117	TRA/HR/2022/2960/087/C	Concrete	26/07/2022	<0.0012	<0.0021	<0.0066	<0.0029	<0.0039	<0.0025
NB7118	TRA/HR/2022/2960/088/C	Concrete	26/07/2022	<0.0015	<0.0025	<0.0079	<0.0037	<0.0050	<0.0030
NB7119	TRA/HR/2022/2901/089/C	Concrete	05/07/2022	<0.0016	<0.0020	<0.0068	<0.0035	<0.0059	<0.0024
NB7120	TRA/HR/2022/2901/090/C	Concrete	05/07/2022	<0.0016	<0.0036	<0.011	<0.0047	<0.0055	<0.0040
NB7121	TRA/HR/2022/2901/091/C	Concrete	05/07/2022	<0.0013	<0.0029	<0.0077	<0.0033	<0.0044	<0.0028
NB7122	TRA/HR/2022/2901/092/C	Concrete	05/07/2022	<0.0011	<0.0019	<0.0062	<0.0026	<0.0032	<0.0022
NB7123	TRA/HR/2022/2901/093/C	Concrete	05/07/2022	<0.0014	<0.0024	<0.0080	<0.0034	<0.0050	<0.0029
NB7124	TRA/HR/2022/2951/094/C	Concrete	05/07/2022	<0.0015	<0.0020	<0.0067	<0.0036	<0.0062	<0.0025
NB7125	TRA/HR/2022/2951/095/C	Concrete	05/07/2022	<0.0013	<0.0033	<0.011	<0.0043	<0.0044	<0.0036
NB7126	TRA/HR/2022/2951/096/C	Concrete	05/07/2022	<0.0015	<0.0025	<0.0082	<0.0037	<0.0048	<0.0030
NB7127	TRA/HR/2022/2951/097/C	Concrete	05/07/2022	<0.0011	<0.0020	<0.0063	<0.0028	<0.0035	<0.0023
NB7128	TRA/HR/2022/2951/098/C	Concrete	05/07/2022	<0.0017	<0.0027	<0.0087	<0.0040	<0.0062	<0.0033
NB7129	TRA/HR/2022/2601/099/C	Concrete	21/07/2022	<0.0015	<0.0020	<0.0064	<0.0032	<0.0053	<0.0023
NB7130	TRA/HR/2022/2651/104/C	Concrete	25/07/2022	<0.0016	<0.0038	<0.011	<0.0049	<0.0048	<0.0041
NB7131	TRA/HR/2022/2651/105/C	Concrete	25/07/2022	<0.0028	<0.0042	<0.013	<0.0067	<0.0096	<0.0049
NB7132	TRA/HR/2022/2602/100/C	Concrete	21/07/2022	<0.00086	<0.0018	<0.0059	<0.0024	<0.0032	<0.0022
NB7133	TRA/HR/2022/2603/101/C	Concrete	21/07/2022	<0.0013	<0.0023	<0.0073	<0.0033	<0.0045	<0.0028
NB7134	TRA/HR/2022/2651/102/C	Concrete	25/07/2022	<0.0018	<0.0020	<0.0066	<0.0037	<0.0062	<0.0025

Table 11. Gamma spectrometry for the artificial radionuclides ^{137}Cs , ^{133}Ba , ^{144}Ce , ^{152}Eu , ^{154}Eu , ^{155}Eu . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (4)					
				Cs-137 (Bq/g)	Ba-133 (Bq/g)	Ce-144 (Bq/g)	Eu-152 (Bq/g)	Eu-154 (Bq/g)	Eu-155 (Bq/g)
NB7135	TRA/HR/2022/2651/103/C	Concrete	25/07/2022	<0.0017	<0.0028	<0.0088	<0.0043	<0.0056	<0.0033
NB7136	TRA/HR/2022/2652/111/C	Concrete	25/07/2022	<0.00087	<0.0018	<0.0059	<0.0025	<0.0031	<0.0022
NB7137	TRA/HR/2022/2651/106/C	Concrete	25/07/2022	<0.0013	<0.0021	<0.0071	<0.0032	<0.0047	<0.0026
NB7138	TRA/HR/2022/2652/107/C	Concrete	23/06/2022	<0.0016	<0.0020	<0.0074	<0.0037	<0.0062	<0.0025
NB7139	TRA/HR/2022/2652/108/C	Concrete	25/07/2022	<0.0016	<0.0035	<0.011	<0.0046	<0.0053	<0.0039
NB7140	TRA/HR/2022/2652/109/C	Concrete	25/07/2022	<0.0018	<0.0031	<0.0095	<0.0047	<0.0058	<0.0035
NB7141	TRA/HR/2022/2652/110/C	Concrete	25/07/2022	<0.0011	<0.0020	<0.0064	<0.0028	<0.0040	<0.0023
NB7142	TRA/HR/2022/2653/114/C	Concrete	25/07/2022	<0.0022	<0.0035	<0.011	<0.0058	<0.0078	<0.0039
NB7143	TRA/HR/2022/2653/112/C	Concrete	25/07/2022	<0.0015	<0.0019	<0.0067	<0.0033	<0.0058	<0.0024
NB7144	TRA/HR/2022/2653/113/C	Concrete	25/07/2022	<0.0015	<0.0037	<0.011	<0.0045	<0.0056	<0.0040
NB7145	TRA/HR/2022/2653/115/C	Concrete	25/07/2022	<0.0011	<0.0021	<0.0066	<0.0029	<0.0038	<0.0025
NB7146	TRA/HR/2022/2653/116/C	Concrete	25/07/2022	<0.0013	<0.0023	<0.0073	<0.0032	<0.0048	<0.0028
NB7147	TRA/HR/2022/2507/117/C	Concrete	20/07/2022	<0.0013	<0.0018	<0.0060	<0.0031	<0.0052	<0.0023
NB7148	TRA/HR/2022/2507/118/C	Concrete	20/07/2022	<0.0026	<0.0049	<0.016	<0.0068	<0.0078	<0.0053
NB7149	TRA/HR/2022/2508/119/C	Concrete	20/07/2022	<0.00081	<0.0017	<0.0058	<0.0022	<0.0027	<0.0021
NB7150	TRA/HR/2022/2508/120/C	Concrete	20/07/2022	<0.0016	<0.0026	<0.0082	<0.0037	<0.0057	<0.0030
NB7151	TRA/HR/2022/2509/121/C	Concrete	20/07/2022	<0.0024	<0.0026	<0.0089	<0.0047	<0.0092	<0.0034
NB7152	TRA/HR/2022/2509/122/C	Concrete	20/07/2022	<0.0023	<0.0049	<0.015	<0.0068	<0.0077	<0.0052
NB7153	TRA/HR/2022/2751/123/C	Concrete	21/07/2022	<0.0017	<0.0028	<0.0093	<0.0043	<0.0059	<0.0033
NB7154	TRA/HR/2022/2751/124/C	Concrete	21/07/2022	<0.0015	<0.0025	<0.0085	<0.0037	<0.0054	<0.0030

Table 11. Gamma spectrometry for the artificial radionuclides ^{137}Cs , ^{133}Ba , ^{144}Ce , ^{152}Eu , ^{154}Eu , ^{155}Eu . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (4)					
				Cs-137 (Bq/g)	Ba-133 (Bq/g)	Ce-144 (Bq/g)	Eu-152 (Bq/g)	Eu-154 (Bq/g)	Eu-155 (Bq/g)
NB7155	TRA/HR/2022/2752/125/C	Concrete	21/07/2022	<0.0015	<0.0027	<0.0089	<0.0040	<0.0051	<0.0032
NB7156	TRA/HR/2022/2752/126/C	Concrete	21/07/2022	<0.0011	<0.0020	<0.0065	<0.0028	<0.0038	<0.0024
NB7157	TRA/HR/2022/2753/127/C	Concrete	21/07/2022	<0.0014	<0.0025	<0.0083	<0.0034	<0.0051	<0.0029
NB7158	TRA/HR/2022/2753/128/C	Concrete	21/07/2022	<0.0026	<0.0028	<0.0097	<0.0051	<0.0096	<0.0035
NB7159	TRA/HR/2022/2670/180/C	Concrete	28/07/2022	<0.0013	<0.0024	<0.0074	<0.0033	<0.0042	<0.0028
NB7160	TRA/HR/2022/2610/181/C	Concrete	28/07/2022	<0.0014	<0.0033	<0.011	<0.0040	<0.0042	<0.0038
NB7161	TRA/HR/2022/2610/182/C	Concrete	28/07/2022	<0.0015	<0.0025	<0.0081	<0.0039	<0.0050	<0.0030
NB7162	TRA/HR/2022/2610/183/C	Concrete	28/07/2022	<0.00092	<0.0018	<0.0060	<0.0026	<0.0032	<0.0022
NB7163	TRA/HR/2022/2610/184/C	Concrete	28/07/2022	<0.0012	<0.0023	<0.0070	<0.0030	<0.0040	<0.0026
NB7164	TRA/HR/2022/2605/190/C	Concrete	26/05/2022	<0.0014	<0.0018	<0.0068	<0.0028	<0.0053	<0.0022
NB7165	TRA/HR/2022/2605/191/C	Concrete	26/05/2022	<0.0016	<0.0037	<0.013	<0.0048	<0.0059	<0.0041
NB7166	TRA/HR/2022/2605/194/C	Concrete	26/05/2022	<0.0016	<0.0028	<0.0096	<0.0042	<0.0058	<0.0031
NB7167	TRA/HR/2022/2605/195/C	Concrete	26/05/2022	<0.0013	<0.0017	<0.0069	<0.0028	<0.0048	<0.0022
NB7168	TRA/HR/2022/2605/196/C	Concrete	26/05/2022	<0.0014	<0.0025	<0.0093	<0.0033	<0.0048	<0.0030
NB7169	TRA/HR/2022/2605/198/C	Concrete	26/05/2022	<0.0014	<0.0019	<0.0074	<0.0031	<0.0052	<0.0024
NB7170	TRA/HR/2022/2605/201/C	Concrete	01/06/2022	<0.0014	<0.0035	<0.012	<0.0046	<0.0047	<0.0040
NB7171	TRA/HR/2022/2605/203/C	Concrete	01/06/2022	<0.00095	<0.0019	<0.0070	<0.0027	<0.0030	<0.0023
NB7172	TRA/HR/2022/2605/204/C	Concrete	01/06/2022	<0.00085	<0.0018	<0.0067	<0.0023	<0.0028	<0.0022
NB7173	TRA/HR/2022/2605/205/C	Concrete	01/06/2022	<0.0027	<0.0029	<0.012	<0.0052	<0.012	<0.0037
NB7174	TRA/HR/2022/2605/206/C	Concrete	01/06/2022	<0.0015	<0.0020	<0.0078	<0.0031	<0.0058	<0.0025

Table 11. Gamma spectrometry for the artificial radionuclides ¹³⁷Cs, ¹³³Ba, ¹⁴⁴Ce, ¹⁵²Eu, ¹⁵⁴Eu, ¹⁵⁵Eu. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (4)					
				Cs-137 (Bq/g)	Ba-133 (Bq/g)	Ce-144 (Bq/g)	Eu-152 (Bq/g)	Eu-154 (Bq/g)	Eu-155 (Bq/g)
NB7175	TRA/HR/2022/2514/208/C	Concrete	01/06/2022	<0.0017	<0.0029	<0.011	<0.0047	<0.0065	<0.0035
NB7176	TRA/HR/2022/2512/209/C	Concrete	01/06/2022	<0.0024	<0.0035	<0.014	<0.0061	<0.0091	<0.0043
NB7177	TRA/HR/2022/2771/211/C	Concrete	08/06/2022	<0.0014	<0.0025	<0.0089	<0.0034	<0.0049	<0.0030
NB7178	TRA/HR/2022/2771/213/C	Concrete	08/06/2022	<0.0015	<0.0035	<0.013	<0.0045	<0.0046	<0.0041
NB7179	TRA/HR/2022/2771/215/C	Concrete	08/06/2022	<0.00091	<0.0019	<0.0071	<0.0025	<0.0032	<0.0024
NB7180	TRA/HR/2022/2771/217/C	Concrete	08/06/2022	<0.0018	<0.0030	<0.0096	<0.0040	<0.0061	<0.0032
NB7181	TRA/HR/2022/2771/219/C	Concrete	09/06/2022	<0.0017	<0.0022	<0.0077	<0.0036	<0.0063	<0.0025
NB7182	TRA/HR/2022/2771/221/C	Concrete	09/06/2022	<0.0025	<0.0055	<0.017	<0.0067	<0.0077	<0.0052
NB7183	TRA/HR/2022/2771/222/C	Concrete	09/06/2022	<0.00089	<0.0019	<0.0070	<0.0025	<0.0029	<0.0023
NB7184	TRA/HR/2022/2771/223/C	Concrete	09/06/2022	<0.0017	<0.0031	<0.012	<0.0046	<0.0065	<0.0036
NB7185	TRA/HR/2022/2771/224/C	Concrete	09/06/2022	<0.0015	<0.0027	<0.0087	<0.0036	<0.0053	<0.0029
NB7186	TRA/HR/2022/2771/227/C	Concrete	09/06/2022	<0.0017	<0.0021	<0.0076	<0.0037	<0.0063	<0.0025
NB7187	TRA/HR/2022/2771/228/C	Concrete	09/06/2022	<0.00086	<0.0018	<0.0064	<0.0023	<0.0029	<0.0022
NB7188	TRA/HR/2022/2771/229/C	Concrete	09/06/2022	<0.0016	<0.0026	<0.0090	<0.0036	<0.0055	<0.0029
NC4099	TRA-HR-2022-1751-AS1-C	Concrete	27/04/2023	<0.0018	<0.0026	<0.0084	<0.0041	<0.0067	<0.0031
NC4100	TRA-HR-2022-1751-AS2-C	Concrete	27/04/2023	<0.0017	<0.0031	<0.0097	<0.0043	<0.0057	<0.0037
NC4101	TRA-HR-2022-1752-AS3-C	Concrete	27/04/2023	<0.0014	<0.0036	<0.0095	<0.0041	<0.0048	<0.0035
NC4102	TRA-HR-2022-1752-AS4-C	Concrete	27/04/2023	<0.0018	<0.0034	<0.011	<0.0049	<0.0067	<0.004
NC4103	TRA-HR-2022-1901-AS5-C	Concrete	27/04/2023	<0.002	<0.0025	<0.0082	<0.0044	<0.0073	0.0058 ± 0.0017
NC4104	TRA-HR-2022-1951-AS7-C	Concrete	27/04/2023	<0.002	<0.0036	<0.011	<0.0053	<0.0069	<0.0039

Table 11. Gamma spectrometry for the artificial radionuclides ^{137}Cs , ^{133}Ba , ^{144}Ce , ^{152}Eu , ^{154}Eu , ^{155}Eu . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (4)					
				Cs-137 (Bq/g)	Ba-133 (Bq/g)	Ce-144 (Bq/g)	Eu-152 (Bq/g)	Eu-154 (Bq/g)	Eu-155 (Bq/g)
NC4105	TRA-HR-2022-2752-AS8-C	Concrete	09/05/2023	<0.0015	<0.0038	<0.0098	<0.0045	<0.005	<0.0037
NC4106	TRA-HR-2022-2071-AS12-C	Concrete	09/05/2023	<0.0029	<0.0048	<0.015	<0.0074	<0.011	<0.0053
NC4115	TRA-HR-2022-1901-AS6-C	Concrete	27/04/2023	<0.0023	<0.0028	<0.0094	<0.0053	<0.0077	0.008 ± 0.0022
NC4116	TRA-HR-2022-2771-AS9-C	Concrete	09/05/2023	<0.0018	<0.0032	<0.0098	<0.0047	<0.0061	<0.0037
NC4119	TRA-HR-2022-2970-AS10-C	Concrete	11/05/2023	<0.0032	<0.0054	<0.015	0.0177 ± 0.0039	<0.008	<0.0053
NC4122	TRA-HR-2022-2970-AS11-C	Concrete	09/05/2023	<0.0022	<0.0038	<0.012	<0.0056	<0.0072	<0.0043
NC4125	TRA-HR-2022-2802.north.debris	Debris	09/05/2023	0.071 ± 0.012	<0.011	<0.034	0.179 ± 0.013	<0.03	<0.013
NC4126	TRA-HR-2022-2802.east.debris	Debris	09/05/2023	0.083 ± 0.013	<0.015	<0.053	0.233 ± 0.018	<0.031	<0.019
NC4127	TRA-HR-2022-2802.south.debris	Debris	09/05/2023	0.0689 ± 0.0077	<0.0088	<0.034	0.159 ± 0.012	<0.015	<0.012
NC4128	TRA-HR-2022-2802.west.debris	Debris	09/05/2023	0.046 ± 0.006	<0.0069	<0.025	0.111 ± 0.0083	<0.014	<0.0092
NC1086	Bulk Paint Sample 1	Paint (flakes)	01/01/2023	<0.0043	<0.0050	<0.014	<0.009	<0.016	<0.0053
NC1087	Bulk Paint Sample 2	Paint (flakes)	01/01/2023	<0.0044	<0.0049	<0.013	<0.0089	<0.015	<0.0050

Table 12. Gamma spectrometry for the artificial radionuclides ^{239}Np and ^{241}Am , and the radionuclides from the ^{237}Np decay series ^{237}Np and ^{233}Pa . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry			
				Artificial Radionuclides (5)		Neptunium-237 Decay Series	
				Np-239 (Bq/g)	Am-241 (Bq/g)	Np-237 (Bq/g)	Pa-233 (Bq/g)
NB6528	TRA/HR/2022/1E91/001/F	Roofing felt	29/06/2022	<0.062	<0.018	<0.091	<0.026
NB6529	TRA/HR/2022/1E91/003/F	Roofing felt	29/06/2022	<0.026	<0.0079	<0.037	<0.011
NB6530	TRA/HR/2022/1E91/004/F	Roofing felt	29/06/2022	<0.047	<0.013	<0.064	<0.019
NB6531	TRA/HR/2022/1E91/005/F	Roofing felt	29/06/2022	<0.024	<0.0068	<0.032	<0.0084
NB6532	TRA/HR/2022/1E91/007/F	Roofing felt	29/06/2022	<0.040	<0.011	<0.053	<0.015
NB6533	TRA/HR/2022/1E91/008/F	Roofing felt	29/06/2022	<0.049	<0.014	<0.066	<0.018
NB6534	TRA/HR/2022/1E91/009/F	Roofing felt	29/06/2022	<0.034	<0.0086	<0.041	<0.014
NB6535	TRA/HR/2022/1E91/011/F	Roofing felt	04/07/2022	<0.018	<0.0049	<0.022	<0.0071
NB6536	TRA/HR/2022/1E91/013/F	Roofing felt	04/07/2022	<0.034	<0.0089	<0.041	<0.014
NB6537	TRA/HR/2022/1E91/014/F	Roofing felt	04/07/2022	<0.022	<0.0055	<0.026	<0.0087
NB6538	TRA/HR/2022/1E91/015/F	Roofing felt	04/07/2022	<0.034	<0.0084	<0.038	<0.013
NB6539	TRA/HR/2022/1E91/016/F	Roofing felt	04/07/2022	<0.046	<0.012	<0.051	<0.018
NB6540	TRA/HR/2022/1E91/018/F	Roofing felt	04/07/2022	<0.028	<0.0071	<0.032	<0.011
NB6541	TRA/HR/2022/1E91/019/F	Roofing felt	04/07/2022	<0.020	<0.0057	<0.023	<0.0076
NB6542	TRA/HR/2022/1E91/020/F	Roofing felt	04/07/2022	<0.036	<0.0071	<0.026	<0.015
NB6543	TRA/HR/2022/1751/133/M	Metal	28/06/2022	<0.011	<0.0029	<0.0120	<0.0038
NB6544	TRA/HR/2022/1651/134/M	Metal	28/06/2022	<0.013	<0.0026	<0.0086	<0.0053
NB6545	TRA/HR/2022/1610/135/P	Paint (flakes)	24/06/2022	<0.096	<0.029	<0.083	<0.038
NB6546	TRA/HR/2022/1610/137/P	Paint (flakes)	24/06/2022	<0.097	<0.022	<0.069	<0.040
NB6547	TRA/HR/2022/1610/141/P	Paint (flakes)	24/06/2022	<0.18	<0.041	<0.14	<0.071

Table 12. Gamma spectrometry for the artificial radionuclides ^{239}Np and ^{241}Am , and the radionuclides from the ^{237}Np decay series ^{237}Np and ^{233}Pa . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry			
				Artificial Radionuclides (5)		Neptunium-237 Decay Series	
				Np-239 (Bq/g)	Am-241 (Bq/g)	Np-237 (Bq/g)	Pa-233 (Bq/g)
NB6548	TRA/HR/2022/1610/145/P	Paint (flakes)	24/06/2022	<0.082	<0.018	<0.058	<0.035
NB6549	TRA/HR/2022/1610/147/P	Paint (flakes)	27/06/2022	<0.15	<0.040	<0.13	<0.059
NB6550	TRA/HR/2022/1610/151/P	Paint (flakes)	27/06/2022	<0.13	<0.039	<0.12	<0.053
NB6551	TRA/HR/2022/1610/154/P	Paint (flakes)	27/06/2022	<0.11	<0.022	<0.073	<0.041
NB6552	TRA/HR/2022/1610/157/P	Paint (flakes)	27/06/2022	<0.17	<0.038	<0.13	<0.066
NB6553	TRA/HR/2022/1610/159/P	Paint (flakes)	27/06/2022	<0.13	<0.027	<0.080	<0.050
NB6554	TRA/HR/2022/1610/160/P	Paint (flakes)	27/06/2022	<0.13	<0.035	<0.11	<0.050
NB6555	TRA/HR/2022/1610/163/P	Paint (flakes)	28/06/2022	<0.13	<0.029	<0.094	<0.049
NB6556	TRA/HR/2022/1610/167/P	Paint (flakes)	28/06/2022	<0.064	<0.015	<0.046	<0.024
NB6557	TRA/HR/2022/1670/170/P	Paint (flakes)	28/06/2022	<0.083	<0.020	<0.062	<0.033
NB6558	TRA/HR/2022/1670/172/P	Paint (flakes)	28/06/2022	<0.13	<0.027	<0.081	<0.055
NB6559	TRA/HR/2022/1670/174/P	Paint (flakes)	28/06/2022	<0.22	<0.055	<0.18	<0.081
NB6560	TRA/HR/2022/1670/175/P	Paint (flakes)	28/06/2022	<0.42	<0.088	<0.27	<0.17
NB6561	TRA/HR/2022/1670/176/P	Paint (flakes)	29/06/2022	<0.097	<0.022	<0.066	<0.039
NB6562	TRA/HR/2022/1670/177/P	Paint (flakes)	29/06/2022	<0.24	<0.065	<0.20	<0.099
NB6563	TRA/HR/2022/1670/178/P	Paint (flakes)	29/06/2022	<0.45	<0.13	<0.38	<0.19
NB6564	TRA/HR/2022/1670/179/P	Paint (flakes)	29/06/2022	<0.23	<0.061	<0.20	<0.092
NB6565	TRA/HR/2022/1605/232/O	Oil / Grease	11/07/2022	<0.043	<0.0098	<0.033	<0.017
NB6566	TRA/HR/2022/1605/233/O	Oil / Grease	11/07/2022	<0.054	<0.013	<0.035	<0.023
NB6567	TRA/HR/2022/1740/234/O	Oil / Grease	11/07/2022	<0.14	<0.037	<0.12	<0.056

Table 12. Gamma spectrometry for the artificial radionuclides ^{239}Np and ^{241}Am , and the radionuclides from the ^{237}Np decay series ^{237}Np and ^{233}Pa . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry			
				Artificial Radionuclides (5)		Neptunium-237 Decay Series	
				Np-239 (Bq/g)	Am-241 (Bq/g)	Np-237 (Bq/g)	Pa-233 (Bq/g)
NB6568	TRA/HR/2022/1740/235/O	Oil / Grease	11/07/2022	<0.013	<0.0042	<0.0170	<0.0050
NB6569	TRA/HR/2022/1E91/021/C	Concrete	22/06/2022	<0.0061	<0.0030	<0.0097	<0.0023
NB6570	TRA/HR/2022/1E91/024/C	Concrete	22/06/2022	<0.0056	<0.0021	<0.0049	<0.0022
NB6571	TRA/HR/2022/1E91/025/C	Concrete	22/06/2022	<0.0061	<0.0039	<0.0081	<0.0023
NB6572	TRA/HR/2022/1E91/026/C	Concrete	22/06/2022	<0.0070	<0.0033	<0.0120	<0.0027
NB6573	TRA/HR/2022/1E91/028/C	Concrete	22/06/2022	<0.0087	<0.0031	<0.0110	<0.0033
NB6574	TRA/HR/2022/1E91/032/C	Concrete	22/06/2022	<0.0060	<0.0022	<0.0072	<0.0024
NB6575	TRA/HR/2022/1E91/033/C	Concrete	22/06/2022	<0.0071	<0.0041	<0.0098	<0.0027
NB6576	TRA/HR/2022/1E91/034/C	Concrete	22/06/2022	<0.0058	<0.0035	<0.0069	<0.0023
NB6577	TRA/HR/2022/1E91/037/C	Concrete	22/06/2022	<0.0070	<0.0029	<0.0110	<0.0026
NB6578	TRA/HR/2022/1E91/038/C	Concrete	22/06/2022	<0.0060	<0.0023	<0.0055	<0.0023
NB6579	TRA/HR/2022/1960/041/C	Concrete	14/06/2022	<0.014	<0.0050	<0.0170	<0.0053
NB6580	TRA/HR/2022/1960/042/C	Concrete	14/06/2022	<0.0090	<0.0037	<0.0130	<0.0036
NB6581	TRA/HR/2022/1960/044/C	Concrete	14/06/2022	<0.0067	<0.0029	<0.0092	<0.0026
NB6582	TRA/HR/2022/1960/046/C	Concrete	14/06/2022	<0.0062	<0.0022	<0.0057	<0.0024
NB6583	TRA/HR/2022/1960/047/C	Concrete	14/06/2022	<0.0086	<0.0039	<0.0097	<0.0033
NB6584	TRA/HR/2022/1960/049/C	Concrete	14/06/2022	<0.0081	<0.0036	<0.0130	<0.0030
NB6585	TRA/HR/2022/1960/050/C	Concrete	14/06/2022	<0.011	<0.0035	<0.0130	<0.0040
NB6586	TRA/HR/2022/1960/051/C	Concrete	16/06/2022	<0.0061	<0.0023	<0.0056	<0.0025
NB6587	TRA/HR/2022/1960/052/C	Concrete	16/06/2022	<0.0092	<0.0039	<0.0110	<0.0034

Table 12. Gamma spectrometry for the artificial radionuclides ^{239}Np and ^{241}Am , and the radionuclides from the ^{237}Np decay series ^{237}Np and ^{233}Pa . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry			
				Artificial Radionuclides (5)		Neptunium-237 Decay Series	
				Np-239 (Bq/g)	Am-241 (Bq/g)	Np-237 (Bq/g)	Pa-233 (Bq/g)
NB6588	TRA/HR/2022/1960/053/C	Concrete	16/06/2022	<0.0087	<0.0036	<0.0150	<0.0033
NB6589	TRA/HR/2022/1960/054/C	Concrete	16/06/2022	<0.0074	<0.0033	<0.0107	<0.0029
NB6590	TRA/HR/2022/1960/055/C	Concrete	16/06/2022	<0.0099	<0.0028	<0.0086	<0.0040
NB6591	TRA/HR/2022/1960/056/C	Concrete	16/06/2022	<0.011	<0.0040	<0.0130	<0.0040
NB6592	TRA/HR/2022/1960/057/C	Concrete	16/06/2022	<0.013	<0.0055	<0.0160	<0.0047
NB6593	TRA/HR/2022/1960/058/C	Concrete	16/06/2022	<0.0099	<0.0034	<0.0120	<0.0038
NB6594	TRA/HR/2022/1960/060/C	Concrete	16/06/2022	<0.0064	<0.0022	<0.0056	<0.0025
NB6595	TRA/HR/2022/1960/061/C	Concrete	24/06/2022	<0.0066	<0.0046	<0.0086	<0.0024
NB6596	TRA/HR/2022/1960/062/C	Concrete	24/06/2022	<0.0075	<0.0034	<0.0130	<0.0028
NB6597	TRA/HR/2022/1960/063/C	Concrete	24/06/2022	<0.0085	<0.0032	<0.0110	<0.0034
NB6598	TRA/HR/2022/1960/064/C	Concrete	24/06/2022	<0.0063	<0.0024	<0.0061	<0.0024
NB6599	TRA/HR/2022/1970/065/C	Concrete	21/06/2022	<0.013	<0.0035	<0.0150	<0.0046
NB6600	TRA/HR/2022/1970/066/C	Concrete	21/06/2022	<0.0068	<0.0032	<0.0110	<0.0027
NB6601	TRA/HR/2022/1970/068/C	Concrete	21/06/2022	<0.0092	<0.0032	<0.0110	<0.0036
NB6602	TRA/HR/2022/1970/071/C	Concrete	21/06/2022	<0.0061	<0.0023	<0.0055	<0.0024
NB6603	TRA/HR/2022/1970/072/C	Concrete	21/06/2022	<0.0080	<0.0038	<0.0092	<0.0031
NB6604	TRA/HR/2022/1970/073/C	Concrete	21/06/2022	<0.0098	<0.0038	<0.0140	<0.0039
NB6605	TRA/HR/2022/1970/074/C	Concrete	21/06/2022	<0.0067	<0.0031	<0.0120	<0.0027
NB6606	TRA/HR/2022/1970/077/C	Concrete	21/06/2022	<0.0056	<0.0022	<0.0053	<0.0022
NB6607	TRA/HR/2022/1970/078/C	Concrete	21/06/2022	<0.0083	<0.0038	<0.0095	<0.0032

Table 12. Gamma spectrometry for the artificial radionuclides ^{239}Np and ^{241}Am , and the radionuclides from the ^{237}Np decay series ^{237}Np and ^{233}Pa . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry			
				Artificial Radionuclides (5)		Neptunium-237 Decay Series	
				Np-239 (Bq/g)	Am-241 (Bq/g)	Np-237 (Bq/g)	Pa-233 (Bq/g)
NB6608	TRA/HR/2022/1970/079/C	Concrete	21/06/2022	<0.0075	<0.0034	<0.0120	<0.0028
NB6609	TRA/HR/2022/1970/080/C	Concrete	21/06/2022	<0.0071	<0.0028	<0.0110	<0.0028
NB6610	TRA/HR/2022/1970/082/C	Concrete	21/06/2022	<0.0060	<0.0022	<0.0059	<0.0023
NB6611	TRA/HR/2022/1970/083/C	Concrete	21/06/2022	<0.0083	<0.0038	<0.0093	<0.0031
NB6612	TRA/HR/2022/1970/084/C	Concrete	21/06/2022	<0.0050	<0.0022	<0.0056	<0.0018
NB6613	TRA/HR/2022/1970/085/C	Concrete	23/06/2022	<0.0047	<0.0022	<0.0065	<0.0017
NB6614	TRA/HR/2022/1970/086/C	Concrete	23/06/2022	<0.0046	<0.0025	<0.0067	<0.0018
NB6615	TRA/HR/2022/1970/087/C	Concrete	23/06/2022	<0.0053	<0.0024	<0.0051	<0.0019
NB6616	TRA/HR/2022/1970/088/C	Concrete	23/06/2022	<0.0069	<0.0024	<0.0089	<0.0027
NB6617	TRA/HR/2022/1901/089/C	Concrete	23/05/2022	<0.011	<0.0035	<0.0130	<0.0042
NB6618	TRA/HR/2022/1901/090/C	Concrete	23/05/2022	<0.0060	<0.0023	<0.0053	<0.0024
NB6619	TRA/HR/2022/1901/091/C	Concrete	23/05/2022	<0.011	<0.0039	<0.0130	<0.0041
NB6620	TRA/HR/2022/1901/092/C	Concrete	23/05/2022	<0.011	<0.0039	<0.0150	<0.0043
NB6621	TRA/HR/2022/1901/093/C	Concrete	23/05/2022	<0.011	<0.0036	<0.0130	<0.0040
NB6622	TRA/HR/2022/1951/094/C	Concrete	23/05/2022	<0.0063	<0.0023	<0.0057	<0.0025
NB6623	TRA/HR/2022/1951/095/C	Concrete	23/05/2022	<0.0081	<0.0039	<0.0093	<0.0030
NB6624	TRA/HR/2022/1951/096/C	Concrete	23/05/2022	<0.0071	<0.0032	<0.0110	<0.0027
NB6625	TRA/HR/2022/1951/097/C	Concrete	23/05/2022	<0.0048	<0.0021	<0.0047	<0.0019
NB6626	TRA/HR/2022/1951/098/C	Concrete	23/05/2022	<0.0068	<0.0029	<0.010	<0.0027
NB6627	TRA/HR/2022/1601/099/C	Concrete	24/05/2022	<0.0084	<0.0025	<0.0070	<0.0033

Table 12. Gamma spectrometry for the artificial radionuclides ^{239}Np and ^{241}Am , and the radionuclides from the ^{237}Np decay series ^{237}Np and ^{233}Pa . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry			
				Artificial Radionuclides (5)		Neptunium-237 Decay Series	
				Np-239 (Bq/g)	Am-241 (Bq/g)	Np-237 (Bq/g)	Pa-233 (Bq/g)
NB6628	TRA/HR/2022/1602/104/C	Concrete	24/05/2022	<0.0076	<0.0039	<0.0110	<0.0028
NB6629	TRA/HR/2022/1603/105/C	Concrete	24/05/2022	<0.0065	<0.0033	<0.0120	<0.0025
NB6630	TRA/HR/2022/1651/100/C	Concrete	22/06/2022	<0.0044	<0.0025	<0.0051	<0.0016
NB6631	TRA/HR/2022/1651/101/C	Concrete	22/06/2022	<0.0056	<0.0034	<0.0092	<0.0021
NB6632	TRA/HR/2022/1651/102/C	Concrete	22/06/2022	<0.0052	<0.0023	<0.0055	<0.0021
NB6633	TRA/HR/2022/1651/103/C	Concrete	22/06/2022	<0.0071	<0.0043	<0.0098	<0.0027
NB6634	TRA/HR/2022/1762/111/C	Concrete	24/05/2022	<0.0065	<0.0032	<0.0110	<0.0025
NB6635	TRA/HR/2022/1652/106/C	Concrete	23/06/2022	<0.0062	<0.0029	<0.0091	<0.0024
NB6636	TRA/HR/2022/1652/107/C	Concrete	23/06/2022	<0.0071	<0.0032	<0.0120	<0.0027
NB6637	TRA/HR/2022/1761/108/C	Concrete	23/05/2022	<0.0047	<0.0021	<0.0058	<0.0019
NB6638	TRA/HR/2022/1652/109/C	Concrete	23/06/2022	<0.0052	<0.0031	<0.0083	<0.0020
NB6639	TRA/HR/2022/1652/110/C	Concrete	23/06/2022	<0.0054	<0.0025	<0.0056	<0.0020
NB6640	TRA/HR/2022/1763/114/C	Concrete	24/05/2022	<0.0074	<0.0041	<0.0110	<0.0027
NB6641	TRA/HR/2022/1653/112/C	Concrete	23/06/2022	<0.0058	<0.0033	<0.010	<0.0023
NB6642	TRA/HR/2022/1653/113/C	Concrete	23/06/2022	<0.0056	<0.0035	<0.0110	<0.0022
NB6643	TRA/HR/2022/1653/115/C	Concrete	23/06/2022	<0.0041	<0.0023	<0.0062	<0.0015
NB6644	TRA/HR/2022/1653/116/C	Concrete	23/06/2022	<0.0052	<0.0031	<0.0059	<0.0020
NB6645	TRA/HR/2022/1507/117/C	Concrete	25/05/2022	<0.0051	<0.0023	<0.0051	<0.0020
NB6646	TRA/HR/2022/1507/118/C	Concrete	25/05/2022	<0.011	<0.0041	<0.0130	<0.0042
NB6647	TRA/HR/2022/1508/119/C	Concrete	25/05/2022	<0.0042	<0.0022	<0.0046	<0.0016

Table 12. Gamma spectrometry for the artificial radionuclides ^{239}Np and ^{241}Am , and the radionuclides from the ^{237}Np decay series ^{237}Np and ^{233}Pa . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry			
				Artificial Radionuclides (5)		Neptunium-237 Decay Series	
				Np-239 (Bq/g)	Am-241 (Bq/g)	Np-237 (Bq/g)	Pa-233 (Bq/g)
NB6648	TRA/HR/2022/1508/120/C	Concrete	25/05/2022	<0.0047	<0.0021	<0.0046	<0.0017
NB6649	TRA/HR/2022/1509/121/C	Concrete	25/05/2022	<0.0045	<0.0020	<0.0049	<0.0016
NB6650	TRA/HR/2022/1509/122/C	Concrete	25/05/2022	<0.0052	<0.0028	<0.0086	<0.0021
NB6651	TRA/HR/2022/1751/123/C	Concrete	25/05/2022	<0.0050	<0.0023	<0.0047	<0.0019
NB6652	TRA/HR/2022/1751/124/C	Concrete	25/05/2022	<0.0080	<0.0036	<0.0093	<0.0030
NB6653	TRA/HR/2022/1752/125/C	Concrete	25/05/2022	<0.0072	<0.0036	<0.0079	<0.0026
NB6654	TRA/HR/2022/1752/126/C	Concrete	25/05/2022	<0.0060	<0.0031	<0.0110	<0.0023
NB6655	TRA/HR/2022/1753/127/C	Concrete	25/05/2022	<0.0067	<0.0023	<0.0074	<0.0025
NB6656	TRA/HR/2022/1753/128/C	Concrete	25/05/2022	<0.0065	<0.0029	<0.0090	<0.0024
NB6657	TRA/HR/2022/1610/180/C	Concrete	29/06/2022	<0.0051	<0.0023	<0.0050	<0.0020
NB6658	TRA/HR/2022/1610/181/C	Concrete	29/06/2022	<0.0050	<0.0022	<0.0047	<0.0019
NB6659	TRA/HR/2022/1610/182/C	Concrete	29/06/2022	<0.0060	<0.0023	<0.0059	<0.0024
NB6660	TRA/HR/2022/1610/183/C	Concrete	29/06/2022	<0.0056	<0.0034	<0.0110	<0.0021
NB6661	TRA/HR/2022/1610/184/C	Concrete	29/06/2022	<0.0071	<0.0039	<0.010	<0.0026
NB6662	TRA/HR/2022/1605/190/C	Concrete	26/05/2022	<0.0051	<0.0028	<0.0077	<0.0019
NB6663	TRA/HR/2022/1605/191/C	Concrete	26/05/2022	<0.0052	<0.0023	<0.0051	<0.0021
NB6664	TRA/HR/2022/1605/192/C	Concrete	26/05/2022	<0.0075	<0.0036	<0.0083	<0.0027
NB6665	TRA/HR/2022/1605/193/C	Concrete	26/05/2022	<0.0056	<0.0035	<0.0110	<0.0021
NB6666	TRA/HR/2022/1605/195/C	Concrete	26/05/2022	<0.0052	<0.0034	<0.0099	<0.0020
NB6667	TRA/HR/2022/1605/196/C	Concrete	26/05/2022	<0.0046	<0.0020	<0.0052	<0.0017

Table 12. Gamma spectrometry for the artificial radionuclides ^{239}Np and ^{241}Am , and the radionuclides from the ^{237}Np decay series ^{237}Np and ^{233}Pa . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry			
				Artificial Radionuclides (5)		Neptunium-237 Decay Series	
				Np-239 (Bq/g)	Am-241 (Bq/g)	Np-237 (Bq/g)	Pa-233 (Bq/g)
NB6668	TRA/HR/2022/1605/197/C	Concrete	26/05/2022	<0.0053	<0.0028	<0.0073	<0.0021
NB6669	TRA/HR/2022/1605/198/C	Concrete	26/05/2022	<0.0052	<0.0021	<0.0049	<0.0020
NB6670	TRA/HR/2022/1605/201/C	Concrete	01/06/2022	<0.0090	<0.0041	<0.0130	<0.0034
NB6671	TRA/HR/2022/1605/203/C	Concrete	01/06/2022	<0.0051	<0.0033	<0.0082	<0.0019
NB6672	TRA/HR/2022/1605/204/C	Concrete	01/06/2022	<0.0065	<0.0028	<0.0089	<0.0024
NB6673	TRA/HR/2022/1605/205/C	Concrete	01/06/2022	<0.0065	<0.0039	<0.0070	<0.0024
NB6674	TRA/HR/2022/1605/206/C	Concrete	01/06/2022	<0.0061	<0.0039	<0.0084	<0.0023
NB6675	TRA/HR/2022/1605/209/C	Concrete	01/06/2022	<0.0057	<0.0021	<0.0053	<0.0023
NB6676	TRA/HR/2022/1771/211/C	Concrete	08/06/2022	<0.0064	<0.0030	<0.0076	<0.0024
NB6677	TRA/HR/2022/1771/212/C	Concrete	08/06/2022	<0.0058	<0.0032	<0.0099	<0.0022
NB6678	TRA/HR/2022/1754/213/C	Concrete	08/06/2022	<0.0058	<0.0032	<0.0110	<0.0023
NB6679	TRA/HR/2022/1754/215/C	Concrete	08/06/2022	<0.0062	<0.0033	<0.0110	<0.0024
NB6680	TRA/HR/2022/1771/218/C	Concrete	08/06/2022	<0.0056	<0.0033	<0.0099	<0.0022
NB6681	TRA/HR/2022/1755/219/C	Concrete	09/06/2022	<0.0070	<0.0032	<0.0120	<0.0026
NB6682	TRA/HR/2022/1771/220/C	Concrete	09/06/2022	<0.0062	<0.0039	<0.0087	<0.0023
NB6683	TRA/HR/2022/1771/221/C	Concrete	09/06/2022	<0.0064	<0.0042	<0.0085	<0.0023
NB6684	TRA/HR/2022/1771/223/C	Concrete	09/06/2022	<0.0046	<0.0021	<0.0045	<0.0017
NB6685	TRA/HR/2022/1771/226/C	Concrete	09/06/2022	<0.0070	<0.0025	<0.0078	<0.0027
NB6686	TRA/HR/2022/1755/227/C	Concrete	09/06/2022	<0.0048	<0.0020	<0.0056	<0.0018
NB7034	TRA/HR/2022/2E91/001/F	Roofing felt	07/07/2022	<0.036	<0.0088	<0.060	<0.015

Table 12. Gamma spectrometry for the artificial radionuclides ^{239}Np and ^{241}Am , and the radionuclides from the ^{237}Np decay series ^{237}Np and ^{233}Pa . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry			
				Artificial Radionuclides (5)		Neptunium-237 Decay Series	
				Np-239 (Bq/g)	Am-241 (Bq/g)	Np-237 (Bq/g)	Pa-233 (Bq/g)
NB7035	TRA/HR/2022/2E91/003/F	Roofing felt	07/07/2022	<0.026	<0.0066	<0.042	<0.011
NB7036	TRA/HR/2022/2E91/004/F	Roofing felt	07/07/2022	<0.024	<0.0049	<0.021	<0.0094
NB7037	TRA/HR/2022/2E91/005/F	Roofing felt	07/07/2022	<0.016	<0.0042	<0.0190	<0.0063
NB7038	TRA/HR/2022/2E91/007/F	Roofing felt	07/07/2022	<0.034	<0.0087	<0.056	<0.013
NB7039	TRA/HR/2022/2E91/008/F	Roofing felt	07/07/2022	<0.014	<0.0034	<0.0170	<0.0054
NB7040	TRA/HR/2022/2E91/009/F	Roofing felt	07/07/2022	<0.015	<0.0035	<0.0170	<0.0057
NB7041	TRA/HR/2022/2E91/011/F	Roofing felt	07/07/2022	<0.017	<0.0041	<0.020	<0.0065
NB7042	TRA/HR/2022/2E91/013/F	Roofing felt	07/07/2022	<0.018	<0.0039	<0.0160	<0.0070
NB7043	TRA/HR/2022/2E91/014/F	Roofing felt	07/07/2022	<0.020	<0.0047	<0.023	<0.0078
NB7044	TRA/HR/2022/2E91/015/F	Roofing felt	07/07/2022	<0.022	<0.0054	<0.035	<0.0086
NB7045	TRA/HR/2022/2E91/016/F	Roofing felt	07/07/2022	<0.027	<0.0055	<0.023	<0.0096
NB7046	TRA/HR/2022/2E91/018/F	Roofing felt	07/07/2022	<0.047	<0.013	<0.056	<0.018
NB7047	TRA/HR/2022/2E91/019/F	Roofing felt	07/07/2022	<0.029	<0.0084	<0.035	<0.011
NB7048	TRA/HR/2022/2E91/020/F	Roofing felt	07/07/2022	<0.026	<0.0061	<0.031	<0.0096
NB7049	TRA/HR/2022/2610/136/P	Paint (flakes)	27/07/2022	<0.11	<0.025	<0.094	<0.040
NB7050	TRA/HR/2022/2610/139/P	Paint (flakes)	27/07/2022	<0.080	<0.017	<0.049	<0.033
NB7051	TRA/HR/2022/2610/142/P	Paint (flakes)	27/07/2022	<0.16	<0.041	<0.14	<0.065
NB7052	TRA/HR/2022/2610/144/P	Paint (flakes)	27/07/2022	<0.084	<0.020	<0.062	<0.036
NB7053	TRA/HR/2022/2610/146/P	Paint (flakes)	27/07/2022	<0.11	<0.024	<0.075	<0.040
NB7054	TRA/HR/2022/2610/149/P	Paint (flakes)	27/07/2022	<0.094	<0.022	<0.085	<0.037

Table 12. Gamma spectrometry for the artificial radionuclides ^{239}Np and ^{241}Am , and the radionuclides from the ^{237}Np decay series ^{237}Np and ^{233}Pa . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry			
				Artificial Radionuclides (5)		Neptunium-237 Decay Series	
				Np-239 (Bq/g)	Am-241 (Bq/g)	Np-237 (Bq/g)	Pa-233 (Bq/g)
NB7055	TRA/HR/2022/2610/152/P	Paint (flakes)	27/07/2022	<0.13	<0.027	<0.085	<0.053
NB7056	TRA/HR/2022/2610/154/P	Paint (flakes)	27/07/2022	<0.15	<0.040	<0.13	<0.060
NB7057	TRA/HR/2022/2610/158/P	Paint (flakes)	27/07/2022	<0.14	<0.032	<0.12	<0.054
NB7058	TRA/HR/2022/2610/161/P	Paint (flakes)	27/07/2022	<0.11	<0.026	<0.080	<0.041
NB7059	TRA/HR/2022/2610/163/P	Paint (flakes)	27/07/2022	<0.083	<0.021	<0.064	<0.033
NB7060	TRA/HR/2022/2610/166/P	Paint (flakes)	27/07/2022	<0.17	<0.039	<0.15	<0.065
NB7061	TRA/HR/2022/2610/169/P	Paint (flakes)	27/07/2022	<0.17	<0.039	<0.15	<0.067
NB7062	TRA/HR/2022/2670/171/P	Paint (flakes)	28/07/2022	<0.16	<0.038	<0.15	<0.065
NB7063	TRA/HR/2022/2670/173/P	Paint (flakes)	28/07/2022	<0.18	<0.039	<0.16	<0.068
NB7064	TRA/HR/2022/2670/175/P	Paint (flakes)	28/07/2022	<0.23	<0.048	<0.14	<0.092
NB7065	TRA/HR/2022/2670/176/P	Paint (flakes)	28/07/2022	<0.33	<0.068	<0.22	<0.13
NB7066	TRA/HR/2022/2670/177/P	Paint (flakes)	28/07/2022	<0.22	<0.046	<0.14	<0.086
NB7067	TRA/HR/2022/2670/178/P	Paint (flakes)	28/07/2022	<0.21	<0.041	<0.13	<0.079
NB7068	TRA/HR/2022/2670/179/P	Paint (flakes)	28/07/2022	<0.45	<0.12	<0.37	<0.18
NB7069	TRA/HR/2022/2652/132/M	Metal	04/07/2022	<0.012	<0.0036	<0.0130	<0.0045
NB7070	TRA/HR/2022/2652/134/M	Metal	04/07/2022	<0.040	<0.011	<0.047	<0.015
NB7071	TRA/HR/2022/2E91/022/C	Concrete	07/07/2022	<0.0067	<0.0038	<0.0095	<0.0025
NB7072	TRA/HR/2022/2E91/024/C	Concrete	07/07/2022	<0.0074	<0.0040	<0.0110	<0.0028
NB7073	TRA/HR/2022/2E91/027/C	Concrete	07/07/2022	<0.0045	<0.0023	<0.0064	<0.0017
NB7074	TRA/HR/2022/2E91/028/C	Concrete	07/07/2022	<0.0045	<0.0022	<0.0066	<0.0017

Table 12. Gamma spectrometry for the artificial radionuclides ^{239}Np and ^{241}Am , and the radionuclides from the ^{237}Np decay series ^{237}Np and ^{233}Pa . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry			
				Artificial Radionuclides (5)		Neptunium-237 Decay Series	
				Np-239 (Bq/g)	Am-241 (Bq/g)	Np-237 (Bq/g)	Pa-233 (Bq/g)
NB7075	TRA/HR/2022/2E91/030/C	Concrete	07/07/2022	<0.0039	<0.0023	<0.0044	<0.0015
NB7076	TRA/HR/2022/2E91/033/C	Concrete	07/07/2022	<0.0050	<0.0024	<0.0052	<0.0019
NB7077	TRA/HR/2022/2E91/034/C	Concrete	07/07/2022	<0.0048	<0.0024	<0.0048	<0.0019
NB7078	TRA/HR/2022/2E91/036/C	Concrete	07/07/2022	<0.0051	<0.0023	<0.0053	<0.0019
NB7079	TRA/HR/2022/2E91/037/C	Concrete	07/07/2022	<0.0051	<0.0024	<0.0048	<0.0019
NB7080	TRA/HR/2022/2E91/039/C	Concrete	07/07/2022	<0.0059	<0.0023	<0.0078	<0.0023
NB7081	TRA/HR/2022/2970/041/C	Concrete	12/07/2022	<0.012	<0.0041	<0.0160	<0.0041
NB7082	TRA/HR/2022/2970/043/C	Concrete	12/07/2022	<0.0062	<0.0022	<0.0070	<0.0024
NB7083	TRA/HR/2022/2970/044/C	Concrete	12/07/2022	<0.0097	<0.0032	<0.0130	<0.0037
NB7084	TRA/HR/2022/2970/045/C	Concrete	12/07/2022	<0.010	<0.0029	<0.0082	<0.0042
NB7085	TRA/HR/2022/2970/047/C	Concrete	12/07/2022	<0.0079	<0.0038	<0.0089	<0.0029
NB7086	TRA/HR/2022/2970/048/C	Concrete	12/07/2022	<0.0099	<0.0039	<0.0140	<0.0036
NB7087	TRA/HR/2022/2970/049/C	Concrete	12/07/2022	<0.0049	<0.0023	<0.0130	<0.0018
NB7088	TRA/HR/2022/2970/050/C	Concrete	12/07/2022	<0.0086	<0.0030	<0.0120	<0.0033
NB7089	TRA/HR/2022/2970/051/C	Concrete	12/07/2022	<0.0079	<0.0026	<0.0092	<0.0031
NB7090	TRA/HR/2022/2970/052/C	Concrete	12/07/2022	<0.012	<0.0044	<0.0140	<0.0041
NB7091	TRA/HR/2022/2970/053/C	Concrete	12/07/2022	<0.0070	<0.0037	<0.0110	<0.0027
NB7092	TRA/HR/2022/2970/054/C	Concrete	12/07/2022	<0.0083	<0.0027	<0.0072	<0.0033
NB7093	TRA/HR/2022/2970/055/C	Concrete	12/07/2022	<0.0054	<0.0031	<0.0091	<0.0021
NB7094	TRA/HR/2022/2970/058/C	Concrete	12/07/2022	<0.0053	<0.0023	<0.0050	<0.0020

Table 12. Gamma spectrometry for the artificial radionuclides ^{239}Np and ^{241}Am , and the radionuclides from the ^{237}Np decay series ^{237}Np and ^{233}Pa . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry			
				Artificial Radionuclides (5)		Neptunium-237 Decay Series	
				Np-239 (Bq/g)	Am-241 (Bq/g)	Np-237 (Bq/g)	Pa-233 (Bq/g)
NB7095	TRA/HR/2022/2970/059/C	Concrete	12/07/2022	<0.0061	<0.0040	<0.0082	<0.0022
NB7096	TRA/HR/2022/2970/061/C	Concrete	19/07/2022	<0.012	<0.0039	<0.0150	<0.0043
NB7097	TRA/HR/2022/2970/062/C	Concrete	19/07/2022	<0.0066	<0.0025	<0.0070	<0.0025
NB7098	TRA/HR/2022/2970/063/C	Concrete	19/07/2022	<0.0055	<0.0027	<0.0095	<0.0021
NB7099	TRA/HR/2022/2970/064/C	Concrete	19/07/2022	<0.0051	<0.0024	<0.0048	<0.0020
NB7100	TRA/HR/2022/2960/065/C	Concrete	26/07/2022	<0.013	<0.0045	<0.0160	<0.0046
NB7101	TRA/HR/2022/2960/067/C	Concrete	26/07/2022	<0.0068	<0.0033	<0.0110	<0.0026
NB7102	TRA/HR/2022/2960/068/C	Concrete	26/07/2022	<0.0051	<0.0021	<0.0056	<0.0019
NB7103	TRA/HR/2022/2960/070/C	Concrete	26/07/2022	<0.0095	<0.0032	<0.0120	<0.0037
NB7104	TRA/HR/2022/2960/071/C	Concrete	26/07/2022	<0.0094	<0.0027	<0.0079	<0.0037
NB7105	TRA/HR/2022/2960/072/C	Concrete	26/07/2022	<0.0094	<0.0041	<0.0110	<0.0035
NB7106	TRA/HR/2022/2960/073/C	Concrete	26/07/2022	<0.0067	<0.0034	<0.0120	<0.0026
NB7107	TRA/HR/2022/2960/074/C	Concrete	26/07/2022	<0.0047	<0.0024	<0.0067	<0.0018
NB7108	TRA/HR/2022/2960/075/C	Concrete	26/07/2022	<0.0060	<0.0031	<0.0079	<0.0022
NB7109	TRA/HR/2022/2960/076/C	Concrete	26/07/2022	<0.0060	<0.0022	<0.0054	<0.0024
NB7110	TRA/HR/2022/2960/077/C	Concrete	26/07/2022	<0.0078	<0.0038	<0.0091	<0.0029
NB7111	TRA/HR/2022/2960/079/C	Concrete	26/07/2022	<0.0070	<0.0031	<0.0110	<0.0026
NB7112	TRA/HR/2022/2960/082/C	Concrete	26/07/2022	<0.0052	<0.0021	<0.0059	<0.0019
NB7113	TRA/HR/2022/2960/083/C	Concrete	26/07/2022	<0.0092	<0.0032	<0.0130	<0.0037
NB7114	TRA/HR/2022/2960/084/C	Concrete	26/07/2022	<0.0076	<0.0024	<0.0063	<0.0029

Table 12. Gamma spectrometry for the artificial radionuclides ^{239}Np and ^{241}Am , and the radionuclides from the ^{237}Np decay series ^{237}Np and ^{233}Pa . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry			
				Artificial Radionuclides (5)		Neptunium-237 Decay Series	
				Np-239 (Bq/g)	Am-241 (Bq/g)	Np-237 (Bq/g)	Pa-233 (Bq/g)
NB7115	TRA/HR/2022/2960/085/C	Concrete	26/07/2022	<0.0075	<0.0040	<0.0110	<0.0028
NB7116	TRA/HR/2022/2960/086/C	Concrete	26/07/2022	<0.0069	<0.0033	<0.0079	<0.0026
NB7117	TRA/HR/2022/2960/087/C	Concrete	26/07/2022	<0.0048	<0.0021	<0.0055	<0.0018
NB7118	TRA/HR/2022/2960/088/C	Concrete	26/07/2022	<0.0057	<0.0031	<0.0086	<0.0022
NB7119	TRA/HR/2022/2901/089/C	Concrete	05/07/2022	<0.0053	<0.0023	<0.0050	<0.0020
NB7120	TRA/HR/2022/2901/090/C	Concrete	05/07/2022	<0.0075	<0.0034	<0.0088	<0.0029
NB7121	TRA/HR/2022/2901/091/C	Concrete	05/07/2022	<0.0052	<0.0034	<0.0063	<0.0020
NB7122	TRA/HR/2022/2901/092/C	Concrete	05/07/2022	<0.0042	<0.0022	<0.0045	<0.0016
NB7123	TRA/HR/2022/2901/093/C	Concrete	05/07/2022	<0.0055	<0.0030	<0.0095	<0.0021
NB7124	TRA/HR/2022/2951/094/C	Concrete	05/07/2022	<0.0054	<0.0023	<0.0051	<0.0021
NB7125	TRA/HR/2022/2951/095/C	Concrete	05/07/2022	<0.0065	<0.0040	<0.0089	<0.0024
NB7126	TRA/HR/2022/2951/096/C	Concrete	05/07/2022	<0.0055	<0.0039	<0.0110	<0.0021
NB7127	TRA/HR/2022/2951/097/C	Concrete	05/07/2022	<0.0045	<0.0020	<0.0046	<0.0017
NB7128	TRA/HR/2022/2951/098/C	Concrete	05/07/2022	<0.0065	<0.0030	<0.0099	<0.0025
NB7129	TRA/HR/2022/2601/099/C	Concrete	21/07/2022	<0.0050	<0.0025	<0.0050	<0.0019
NB7130	TRA/HR/2022/2651/104/C	Concrete	25/07/2022	<0.0072	<0.0039	<0.0110	<0.0027
NB7131	TRA/HR/2022/2651/105/C	Concrete	25/07/2022	<0.011	<0.0039	<0.0140	<0.0040
NB7132	TRA/HR/2022/2602/100/C	Concrete	21/07/2022	<0.0041	<0.0023	<0.0062	<0.0015
NB7133	TRA/HR/2022/2603/101/C	Concrete	21/07/2022	<0.0051	<0.0031	<0.0091	<0.0020
NB7134	TRA/HR/2022/2651/102/C	Concrete	25/07/2022	<0.0057	<0.0021	<0.0050	<0.0022

Table 12. Gamma spectrometry for the artificial radionuclides ^{239}Np and ^{241}Am , and the radionuclides from the ^{237}Np decay series ^{237}Np and ^{233}Pa . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry			
				Artificial Radionuclides (5)		Neptunium-237 Decay Series	
				Np-239 (Bq/g)	Am-241 (Bq/g)	Np-237 (Bq/g)	Pa-233 (Bq/g)
NB7135	TRA/HR/2022/2651/103/C	Concrete	25/07/2022	<0.0064	<0.0031	<0.0110	<0.0025
NB7136	TRA/HR/2022/2652/111/C	Concrete	25/07/2022	<0.0039	<0.0022	<0.0055	<0.0014
NB7137	TRA/HR/2022/2651/106/C	Concrete	25/07/2022	<0.0051	<0.0029	<0.0091	<0.0019
NB7138	TRA/HR/2022/2652/107/C	Concrete	23/06/2022	<0.0054	<0.0023	<0.0066	<0.0021
NB7139	TRA/HR/2022/2652/108/C	Concrete	25/07/2022	<0.0071	<0.0036	<0.0078	<0.0026
NB7140	TRA/HR/2022/2652/109/C	Concrete	25/07/2022	<0.0067	<0.0032	<0.0110	<0.0027
NB7141	TRA/HR/2022/2652/110/C	Concrete	25/07/2022	<0.0045	<0.0020	<0.0053	<0.0017
NB7142	TRA/HR/2022/2653/114/C	Concrete	25/07/2022	<0.0084	<0.0031	<0.0120	<0.0033
NB7143	TRA/HR/2022/2653/112/C	Concrete	25/07/2022	<0.0051	<0.0023	<0.0053	<0.0020
NB7144	TRA/HR/2022/2653/113/C	Concrete	25/07/2022	<0.0072	<0.0036	<0.0084	<0.0027
NB7145	TRA/HR/2022/2653/115/C	Concrete	25/07/2022	<0.0048	<0.0020	<0.0046	<0.0018
NB7146	TRA/HR/2022/2653/116/C	Concrete	25/07/2022	<0.0050	<0.0032	<0.0091	<0.0019
NB7147	TRA/HR/2022/2507/117/C	Concrete	20/07/2022	<0.0046	<0.0024	<0.0049	<0.0018
NB7148	TRA/HR/2022/2507/118/C	Concrete	20/07/2022	<0.011	<0.0040	<0.0130	<0.0039
NB7149	TRA/HR/2022/2508/119/C	Concrete	20/07/2022	<0.0038	<0.0024	<0.0040	<0.0014
NB7150	TRA/HR/2022/2508/120/C	Concrete	20/07/2022	<0.0057	<0.0028	<0.0057	<0.0022
NB7151	TRA/HR/2022/2509/121/C	Concrete	20/07/2022	<0.0075	<0.0024	<0.0063	<0.0029
NB7152	TRA/HR/2022/2509/122/C	Concrete	20/07/2022	<0.010	<0.0039	<0.0130	<0.0039
NB7153	TRA/HR/2022/2751/123/C	Concrete	21/07/2022	<0.0071	<0.0025	<0.0077	<0.0028
NB7154	TRA/HR/2022/2751/124/C	Concrete	21/07/2022	<0.0057	<0.0031	<0.0110	<0.0022

Table 12. Gamma spectrometry for the artificial radionuclides ^{239}Np and ^{241}Am , and the radionuclides from the ^{237}Np decay series ^{237}Np and ^{233}Pa . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry			
				Artificial Radionuclides (5)		Neptunium-237 Decay Series	
				Np-239 (Bq/g)	Am-241 (Bq/g)	Np-237 (Bq/g)	Pa-233 (Bq/g)
NB7155	TRA/HR/2022/2752/125/C	Concrete	21/07/2022	<0.0059	<0.0037	<0.0120	<0.0022
NB7156	TRA/HR/2022/2752/126/C	Concrete	21/07/2022	<0.0046	<0.0021	<0.0044	<0.0017
NB7157	TRA/HR/2022/2753/127/C	Concrete	21/07/2022	<0.0054	<0.0033	<0.0096	<0.0020
NB7158	TRA/HR/2022/2753/128/C	Concrete	21/07/2022	<0.0080	<0.0025	<0.0066	<0.0032
NB7159	TRA/HR/2022/2670/180/C	Concrete	28/07/2022	<0.0051	<0.0035	<0.0095	<0.0019
NB7160	TRA/HR/2022/2610/181/C	Concrete	28/07/2022	<0.0065	<0.0042	<0.0089	<0.0024
NB7161	TRA/HR/2022/2610/182/C	Concrete	28/07/2022	<0.0057	<0.0033	<0.0098	<0.0023
NB7162	TRA/HR/2022/2610/183/C	Concrete	28/07/2022	<0.0042	<0.0023	<0.0042	<0.0015
NB7163	TRA/HR/2022/2610/184/C	Concrete	28/07/2022	<0.0049	<0.0033	<0.0083	<0.0018
NB7164	TRA/HR/2022/2605/190/C	Concrete	26/05/2022	<0.0045	<0.0023	<0.0047	<0.0018
NB7165	TRA/HR/2022/2605/191/C	Concrete	26/05/2022	<0.0073	<0.0035	<0.0084	<0.0027
NB7166	TRA/HR/2022/2605/194/C	Concrete	26/05/2022	<0.0061	<0.0030	<0.0096	<0.0022
NB7167	TRA/HR/2022/2605/195/C	Concrete	26/05/2022	<0.0047	<0.0024	<0.0047	<0.0018
NB7168	TRA/HR/2022/2605/196/C	Concrete	26/05/2022	<0.0053	<0.0034	<0.0091	<0.0020
NB7169	TRA/HR/2022/2605/198/C	Concrete	26/05/2022	<0.0048	<0.0027	<0.0051	<0.0018
NB7170	TRA/HR/2022/2605/201/C	Concrete	01/06/2022	<0.0069	<0.0039	<0.0097	<0.0025
NB7171	TRA/HR/2022/2605/203/C	Concrete	01/06/2022	<0.0041	<0.0023	<0.0061	<0.0015
NB7172	TRA/HR/2022/2605/204/C	Concrete	01/06/2022	<0.0039	<0.0021	<0.0061	<0.0014
NB7173	TRA/HR/2022/2605/205/C	Concrete	01/06/2022	<0.0083	<0.0026	<0.0071	<0.0034
NB7174	TRA/HR/2022/2605/206/C	Concrete	01/06/2022	<0.0050	<0.0024	<0.0054	<0.0020

Table 12. Gamma spectrometry for the artificial radionuclides ^{239}Np and ^{241}Am , and the radionuclides from the ^{237}Np decay series ^{237}Np and ^{233}Pa . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry			
				Artificial Radionuclides (5)		Neptunium-237 Decay Series	
				Np-239 (Bq/g)	Am-241 (Bq/g)	Np-237 (Bq/g)	Pa-233 (Bq/g)
NB7175	TRA/HR/2022/2514/208/C	Concrete	01/06/2022	<0.0073	<0.0025	<0.0065	<0.0027
NB7176	TRA/HR/2022/2512/209/C	Concrete	01/06/2022	<0.0091	<0.0033	<0.0120	<0.0036
NB7177	TRA/HR/2022/2771/211/C	Concrete	08/06/2022	<0.0054	<0.0035	<0.0098	<0.0020
NB7178	TRA/HR/2022/2771/213/C	Concrete	08/06/2022	<0.0069	<0.0046	<0.0093	<0.0026
NB7179	TRA/HR/2022/2771/215/C	Concrete	08/06/2022	<0.0041	<0.0024	<0.0063	<0.0016
NB7180	TRA/HR/2022/2771/217/C	Concrete	08/06/2022	<0.0063	<0.0029	<0.0100	<0.0025
NB7181	TRA/HR/2022/2771/219/C	Concrete	09/06/2022	<0.0056	<0.0022	<0.0053	<0.0022
NB7182	TRA/HR/2022/2771/221/C	Concrete	09/06/2022	<0.011	<0.0039	<0.0130	<0.0039
NB7183	TRA/HR/2022/2771/222/C	Concrete	09/06/2022	<0.0040	<0.0023	<0.0047	<0.0015
NB7184	TRA/HR/2022/2771/223/C	Concrete	09/06/2022	<0.0073	<0.0026	<0.0080	<0.0027
NB7185	TRA/HR/2022/2771/224/C	Concrete	09/06/2022	<0.0056	<0.0029	<0.0088	<0.0022
NB7186	TRA/HR/2022/2771/227/C	Concrete	09/06/2022	<0.0053	<0.0023	<0.0056	<0.0021
NB7187	TRA/HR/2022/2771/228/C	Concrete	09/06/2022	<0.0039	<0.0022	<0.0042	<0.0014
NB7188	TRA/HR/2022/2771/229/C	Concrete	09/06/2022	<0.0057	<0.0028	<0.0087	<0.0021
NC4099	TRA-HR-2022-1751-AS1-C	Concrete	27/04/2023	<0.0061	<0.0025	<0.0066	<0.0022
NC4100	TRA-HR-2022-1751-AS2-C	Concrete	27/04/2023	<0.013	<0.0025	<0.0069	<0.0034
NC4101	TRA-HR-2022-1752-AS3-C	Concrete	27/04/2023	<0.0076	<0.0024	<0.0063	<0.0029
NC4102	TRA-HR-2022-1752-AS4-C	Concrete	27/04/2023	<0.012	<0.003	<0.0078	<0.0034
NC4103	TRA-HR-2022-1901-AS5-C	Concrete	27/04/2023	<0.008	<0.0027	<0.0069	<0.0025
NC4104	TRA-HR-2022-1951-AS7-C	Concrete	27/04/2023	<0.013	<0.0029	<0.0075	<0.0036

Table 12. Gamma spectrometry for the artificial radionuclides ^{239}Np and ^{241}Am , and the radionuclides from the ^{237}Np decay series ^{237}Np and ^{233}Pa . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Gamma Spectrometry			
				Artificial Radionuclides (5)		Neptunium-237 Decay Series	
				Np-239 (Bq/g)	Am-241 (Bq/g)	Np-237 (Bq/g)	Pa-233 (Bq/g)
NC4105	TRA-HR-2022-2752-AS8-C	Concrete	09/05/2023	<0.0082	<0.0027	<0.007	<0.0029
NC4106	TRA-HR-2022-2071-AS12-C	Concrete	09/05/2023	<0.014	<0.0044	<0.012	<0.0043
NC4115	TRA-HR-2022-1901-AS6-C	Concrete	27/04/2023	<0.009	<0.003	<0.0076	<0.0027
NC4116	TRA-HR-2022-2771-AS9-C	Concrete	09/05/2023	<0.013	<0.0027	<0.0072	<0.0038
NC4119	TRA-HR-2022-2970-AS10-C	Concrete	11/05/2023	<0.013	<0.0045	<0.012	<0.004
NC4122	TRA-HR-2022-2970-AS11-C	Concrete	09/05/2023	<0.013	<0.0033	<0.0085	<0.0037
NC4125	TRA-HR-2022-2802.north.debris	Debris	09/05/2023	<0.029	<0.014	<0.034	<0.0062
NC4126	TRA-HR-2022-2802.east.debris	Debris	09/05/2023	<0.073	<0.02	<0.048	<0.012
NC4127	TRA-HR-2022-2802.south.debris	Debris	09/05/2023	<0.039	<0.011	<0.028	<0.0071
NC4128	TRA-HR-2022-2802.west.debris	Debris	09/05/2023	<0.032	<0.008	<0.021	<0.006
NC1086	Bulk Paint Sample 1	Paint (flakes)	01/01/2023	<0.015	<0.0035	<0.014	<0.0062
NC1087	Bulk Paint Sample 2	Paint (flakes)	01/01/2023	<0.015	<0.0030	<0.0089	<0.0060

Table 13. Beta emitters ^{36}Cl , ^{55}Fe , ^{63}Ni by Liquid Scintillation Counting and ^{90}Sr by Gas Flow Proportional Counting (GFPC). The matrix is excluded from our UKAS accreditation for beta emitters, as indicated by the asterisk. Note that not all analysis were required on all samples, which is indicated by "Not Determined".

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Liquid Scintillation Counting			GFPC
				Cl-36 (Bq/g)	Fe-55 (Bq/g)	Ni-63 (Bq/g)	Sr-90 (Bq/g)
NB6544	TRA/HR/2022/1651/134/M	Metal	28/06/2022	Not Determined	<0.050	<0.068	Not Determined
NB6565	TRA/HR/2022/1605/232/O	Oil / Grease	11/07/2022	13.91 ± 0.72	<0.101	<0.067	Not Determined
NB6592	TRA/HR/2022/1960/057/C	Concrete	16/06/2022	0.849 ± 0.04	<0.100	<0.15	Not Determined
NB7059	TRA/HR/2022/2610/163/P	Paint (flakes)	27/07/2022	<0.083	0.252 ± 0.075	<0.16	Not Determined
NB7069	TRA/HR/2022/2652/132/M	Metal	04/07/2022	Not Determined	<0.051	<0.15	Not Determined
NC4106	TRA-HR-2022-2071-AS12-C	Concrete	09/05/2023	<0.011	<0.101	<0.070	Not Determined
NC4115	TRA-HR-2022-1901-AS6-C	Concrete	27/04/2023	<0.0036	<0.100	<0.067	Not Determined
NC4116	TRA-HR-2022-2771-AS9-C	Concrete	09/05/2023	<0.0054	<0.100	<0.066	Not Determined
NC4119	TRA-HR-2022-2970-AS10-C	Concrete	11/05/2023	0.974 ± 0.047	0.125 ± 0.060	<0.069	Not Determined
NC4125	TRA-HR-2022-2802.north.debris	Debris	09/05/2023	0.995 ± 0.045	0.766 ± 0.152	<0.066	0.015 ± 0.003
NC4126	TRA-HR-2022-2802.east.debris	Debris	09/05/2023	8.37 ± 0.59	2.65 ± 0.47	0.463 ± 0.059	0.024 ± 0.005
NC4127	TRA-HR-2022-2802.south.debris	Debris	09/05/2023	19 ± 3.2	1.43 ± 0.27	3.607 ± 0.334	0.018 ± 0.006
NC4128	TRA-HR-2022-2802.west.debris	Debris	09/05/2023	1.082 ± 0.052	0.554 ± 0.118	<0.069	0.006 ± 0.002
NC4241	TRA/HR/2022/1970/085/086/087/088/C	Concrete Bulk of NB6613, NB6614, NB6615 & NB6616	23/06/2022	0.303 ± 0.018	<0.100	<0.068	Not Determined
NC4242	TRA/HR/2022/2610/146/158/161, 2670/171/P	Paint (flakes) Bulk of NB7053, NB7057, NB7058 & NB7062	27/07/2022	<0.045	0.116 ± 0.060	<0.067	Not Determined
NC4243	TRA/HR/2022/1E91/026/034/037C	Concrete Bulk of NB6572, NB6576 & NB6577	22/06/2022	<0.006	<0.101	<0.068	Not Determined
NC4244	TRA/HR/2022/2610/181/182/183/184/C	Concrete Bulk of NB7160, NB7161, NB7162 & NB7163	28/07/2022	<0.0069	<0.100	<0.067	Not Determined
NC4245	TRA/HR/2022/2601/099, 2602/100, 2507/118, 2508/120/C	Concrete Bulk of NB7129, NB7132, NB7148 & NB7150	20/07/2022	<0.0048	<0.100	<0.067	Not Determined

Table 14. Alpha spectrometry results for Thorium and Uranium isotopes. The matrix is excluded from our UKAS accreditation for alpha spectrometry, as indicated by the asterisk. Note that not all analysis were required on all samples, which is indicated by "Not Determined".

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Thorium (Bq/g)			Uranium (Bq/g)		
				Th-228	Th-230	Th-232	U-234	U-235	U-238
NB6592	TRA/HR/2022/1960/057/C	Concrete	16/06/2022	Not Determined	Not Determined	Not Determined	0.0333 ± 0.0030	0.00156 ± 0.00054	0.0327 ± 0.0029
NB6659	TRA/HR/2022/1610/182/C	Concrete	29/06/2022	0.0275 ± 0.0062	0.0176 ± 0.0040	0.0270 ± 0.0050	0.0226 ± 0.0023	0.00084 ± 0.00051	0.0226 ± 0.0023

Table 15. Alpha spectrometry results for Plutonium, Americium and Curium isotopes. The matrix is excluded from our UKAS accreditation for alpha spectrometry, as indicated by the asterisk. Note that not all analysis were required on all samples, which is indicated by "Not Determined". ²⁴¹Pu has been determined using Liquid Scintillation Counting (not UKAS accredited).

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Plutonium (Bq/g)			Americium (Bq/g)	Curium (Bq/g)	
				Pu-238	Pu-239/240	Pu-241	Am-241	Cm-242	Cm-243/244
NB6592	TRA/HR/2022/1960/057/C	Concrete	16/06/2022	Not Determined	Not Determined	Not Determined	Not Determined	Not Determined	Not Determined
NB6659	TRA/HR/2022/1610/182/C	Concrete	29/06/2022	<0.00076	<0.0011	<0.021	<0.0017	<0.00076	<0.00076

Table 16. Chemical composition of roofing felt as Moisture Content and PAH compounds Acenaphthene, Acenaphthylene, Anthracene, Benzo[a]-anthracene, Benzo[a]-pyrene, Benzo[b]-fluoranthene, Benzo[g,h,i]-perylene. The matrix is excluded from our UKAS accreditation, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Moisture	PAH						
			Total Moisture at 35°C (%)	Acenaphthene (mg/kg)	Acenaphthylene (mg/kg)	Anthracene (mg/kg)	Benzo[a]-anthracene (mg/kg)	Benzo[a]-pyrene (mg/kg)	Benzo[b]-fluoranthene (mg/kg)	Benzo[g,h,i]-perylene (mg/kg)
NB6531	TRA/HR/2022/1E91/005/F	Roofing felt	72.4	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00
NB6538	TRA/HR/2022/1E91/015/F	Roofing felt	18.9	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00
NB7037	TRA/HR/2022/2E91/005/F	Roofing felt	13.6	<0.08	<0.08	<0.08	0.1	<0.08	<0.08	<0.08
NB7044	TRA/HR/2022/2E91/015/F	Roofing felt	11.2	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00

Table 17. Chemical composition of roofing felt (cont.) as PAH compounds Benzo[k]-fluoranthene, Chrysene, Coronene, Dibenzo[a,h]-anthracene, Fluoranthene, Fluorene, Indeno[1,2,3-cd]-pyrene, Naphthalene. The matrix is excluded from our UKAS accreditation, as indicated by the asterisk.

			PAH							
			Benzo[k]-fluoranthene (mg/kg)	Chrysene (mg/kg)	Coronene (mg/kg)	Dibenzo[a,h]-anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno[1,2,3-cd]-pyrene (mg/kg)	Naphthalene (mg/kg)
Lab Ref	Customer Ref	Matrix*								
NB6531	TRA/HR/2022/1E91/005/F	Roofing felt	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00
NB6538	TRA/HR/2022/1E91/015/F	Roofing felt	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00
NB7037	TRA/HR/2022/2E91/005/F	Roofing felt	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
NB7044	TRA/HR/2022/2E91/015/F	Roofing felt	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00	<8.00

Table 18. Chemical composition of roofing felt (cont.) as total PAH and Phenols concentration with PAH compounds Phenanthrene and Pyrene and the phenols split into Trimethyl-phenols, Dimethyl-phenols, Methyl-phenols, Phenol. The matrix is excluded from our UKAS accreditation, as indicated by the asterisk.

			PAH			Phenols				
Lab Ref	Customer Ref	Matrix*	Phenanthrene (mg/kg)	Pyrene (mg/kg)	Total PAH 16 (mg/kg)	Trimethyl- phenols (mg/kg)	Dimethyl-phenols (mg/kg)	Methyl-phenols (mg/kg)	Phenol (mg/kg)	Total Phenols (mg/kg)
NB6531	TRA/HR/2022/1E91/005/F	Roofing felt	<8.00	<8.00	<128	<0.10	<0.10	9.61	25.8	35.6
NB6538	TRA/HR/2022/1E91/015/F	Roofing felt	<8.00	<8.00	<128	<0.10	0.25	3.94	27.5	31.8
NB7037	TRA/HR/2022/2E91/005/F	Roofing felt	<0.08	<0.08	<1.3	0.37	0.49	0.15	3.69	4.7
NB7044	TRA/HR/2022/2E91/015/F	Roofing felt	<8.00	<8.00	<128	<0.16	<0.16	7.42	28.4	36.2

Table 19. Moisture content and acid soluble sulphate in concrete samples. The matrix is excluded from our UKAS accreditation, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Moisture	Sulphate
			Total Moisture at 35°C (%)	Acid Soluble Sulphate as SO ₄ (mg/kg)
NB6622	TRA/HR/2022/1951/094/C	Concrete	0.9	4250
NB6631	TRA/HR/2022/1651/101/C	Concrete	0.5	5110
NB6641	TRA/HR/2022/1653/112/C	Concrete	2.9	4250
NB6646	TRA/HR/2022/1507/118/C	Concrete	0.8	3670
NB6648	TRA/HR/2022/1508/120/C	Concrete	1	2690
NB7132	TRA/HR/2022/2602/100/C	Concrete	1.6	5150
NB7139	TRA/HR/2022/2652/108/C	Concrete	<0.1	3550
NB7145	TRA/HR/2022/2653/115/C	Concrete	<0.1	7210
NB7150	TRA/HR/2022/2508/120/C	Concrete	<0.1	5800
NB7154	TRA/HR/2022/2751/124/C	Concrete	<0.1	3200

Table 20. Chemical composition of concrete as Moisture content and PAH compounds Acenaphthene, Acenaphthylene, Anthracene, Benzo[a]-anthracene, Benzo[a]-pyrene, Benzo[b]-fluoranthene, Benzo[g,h,i]-perylene The matrix is excluded from our UKAS accreditation, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Moisture	PAH						
			Total Moisture at 35°C (%)	Acenaphthene (mg/kg)	Acenaphthylene (mg/kg)	Anthracene (mg/kg)	Benzo[a]-anthracene (mg/kg)	Benzo[a]-pyrene (mg/kg)	Benzo[b]-fluoranthene (mg/kg)	Benzo[g,h,i]-perylene (mg/kg)
NB6591	TRA/HR/2022/1960/056/C	Concrete	12.4	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
NB6594	TRA/HR/2022/1960/060/C	Concrete	0.5	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
NB6597	TRA/HR/2022/1960/063/C	Concrete	4.8	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
NB6606	TRA/HR/2022/1970/077/C	Concrete	9.4	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
NB6614	TRA/HR/2022/1970/086/C	Concrete	7.5	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
NB6615	TRA/HR/2022/1970/087/C	Concrete	14.8	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
NB6616	TRA/HR/2022/1970/088/C	Concrete	6.5	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
NB7089	TRA/HR/2022/2970/051/C	Concrete	3.1	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
NB7093	TRA/HR/2022/2970/055/C	Concrete	1.9	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
NB7096	TRA/HR/2022/2970/061/C	Concrete	3.4	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
NB7097	TRA/HR/2022/2970/062/C	Concrete	1.7	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
NB7099	TRA/HR/2022/2970/064/C	Concrete	4.4	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
NB7115	TRA/HR/2022/2960/085/C	Concrete	12.4	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
NB7118	TRA/HR/2022/2960/088/C	Concrete	4.1	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08

Table 21. Chemical composition of concrete (cont.) as PAH compounds Benzo[k]-fluoranthene, Chrysene, Dibenzo[a,h]-anthracene, Fluoranthene, Fluorene, Indeno[1,2,3-cd]-pyrene, Naphthalene. The matrix is excluded from our UKAS accreditation, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	PAH						
			Benzo[k]-fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo[a,h]-anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno[1,2,3-cd]-pyrene (mg/kg)	Naphthalene (mg/kg)
NB6591	TRA/HR/2022/1960/056/C	Concrete	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
NB6594	TRA/HR/2022/1960/060/C	Concrete	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
NB6597	TRA/HR/2022/1960/063/C	Concrete	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
NB6606	TRA/HR/2022/1970/077/C	Concrete	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
NB6614	TRA/HR/2022/1970/086/C	Concrete	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
NB6615	TRA/HR/2022/1970/087/C	Concrete	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
NB6616	TRA/HR/2022/1970/088/C	Concrete	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
NB7089	TRA/HR/2022/2970/051/C	Concrete	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
NB7093	TRA/HR/2022/2970/055/C	Concrete	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
NB7096	TRA/HR/2022/2970/061/C	Concrete	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
NB7097	TRA/HR/2022/2970/062/C	Concrete	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
NB7099	TRA/HR/2022/2970/064/C	Concrete	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
NB7115	TRA/HR/2022/2960/085/C	Concrete	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
NB7118	TRA/HR/2022/2960/088/C	Concrete	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08

Table 22. Chemical composition of concrete (cont.) as total PAH, PAH compounds Phenanthrene and Pyrene and oil concentration The matrix is excluded from our UKAS accreditation, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	PAH			Oil
			Phenanthrene (mg/kg)	Pyrene (mg/kg)	Total PAH 16 (mg/kg)	>C6-C40 (mg/kg)
NB6591	TRA/HR/2022/1960/056/C	Concrete	<0.08	<0.08	<1.28	1780
NB6594	TRA/HR/2022/1960/060/C	Concrete	<0.08	<0.08	<1.28	2170
NB6597	TRA/HR/2022/1960/063/C	Concrete	<0.08	<0.08	<1.28	201
NB6606	TRA/HR/2022/1970/077/C	Concrete	<0.08	<0.08	<1.28	364
NB6614	TRA/HR/2022/1970/086/C	Concrete	<0.08	<0.08	<1.28	1160
NB6615	TRA/HR/2022/1970/087/C	Concrete	<0.08	<0.08	<1.28	2950
NB6616	TRA/HR/2022/1970/088/C	Concrete	<0.08	<0.08	<1.28	3320
NB7089	TRA/HR/2022/2970/051/C	Concrete	<0.08	<0.08	<1.28	75.6
NB7093	TRA/HR/2022/2970/055/C	Concrete	<0.08	<0.08	<1.28	2150
NB7096	TRA/HR/2022/2970/061/C	Concrete	<0.08	<0.08	<1.28	2670
NB7097	TRA/HR/2022/2970/062/C	Concrete	<0.08	<0.08	<1.28	4900
NB7099	TRA/HR/2022/2970/064/C	Concrete	<0.08	<0.08	<1.28	1820
NB7115	TRA/HR/2022/2960/085/C	Concrete	<0.08	<0.08	<1.28	101
NB7118	TRA/HR/2022/2960/088/C	Concrete	<0.08	<0.08	<1.28	31.7

Table 23. Density of oil samples. The matrix is excluded from our UKAS accreditation, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Density (g/mL)
NB6565	TRA/HR/2022/1605/232/O	Oil / Grease	1.3926
NB6566	TRA/HR/2022/1605/233/O	Oil / Grease	0.9762
NB6567	TRA/HR/2022/1740/234/O	Oil / Grease	0.9527
NB6568	TRA/HR/2022/1740/235/O	Oil / Grease	0.9548

Table 24. Lead concentration and percentage in paint flakes. The matrix is excluded from our UKAS accreditation, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Lead (% w/w)	Lead (mg/kg)
NB6550	TRA/HR/2022/1610/151/P	Paint (flakes)	0.03	300
NB6551	TRA/HR/2022/1610/154/P	Paint (flakes)	0.038	380
NB6552	TRA/HR/2022/1610/157/P	Paint (flakes)	0.028	280
NB6553	TRA/HR/2022/1610/159/P	Paint (flakes)	0.025	250
NB6554	TRA/HR/2022/1610/160/P	Paint (flakes)	0.013	130
NB6556	TRA/HR/2022/1610/167/P	Paint (flakes)	0.018	180
NB7056	TRA/HR/2022/2610/154/P	Paint (flakes)	0.006	60
NB7064	TRA/HR/2022/2670/175/P	Paint (flakes)	0.014	140
NB7065	TRA/HR/2022/2670/176/P	Paint (flakes)	0.041	410
NB7066	TRA/HR/2022/2670/177/P	Paint (flakes)	0.013	130
NB7067	TRA/HR/2022/2670/178/P	Paint (flakes)	0.033	330
NB7068	TRA/HR/2022/2670/179/P	Paint (flakes)	0.017	170

Table 25. Chemical composition of paint flakes as hydrocarbon content and PAH compounds Acenaphthene, Acenaphthylene, Anthracene, Benzo[a]-anthracene, Benzo[a]-pyrene, Benzo[b]-fluoranthene, Benzo[g,h,i]-perylene The matrix is excluded from our UKAS accreditation, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Hydrocarbons	PAH						
			>C6-C40 (mg/kg)	Acenaphthene (mg/kg)	Acenaphthylene (mg/kg)	Anthracene (mg/kg)	Benzo[a]-anthracene (mg/kg)	Benzo[a]-pyrene (mg/kg)	Benzo[b]-fluoranthene (mg/kg)	Benzo[g,h,i]-perylene (mg/kg)
NB6555	TRA/HR/2022/1610/163/P	Paint (flakes)	123000	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
NB6556	TRA/HR/2022/1610/167/P	Paint (flakes)	162000	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
NB6557	TRA/HR/2022/1670/170/P	Paint (flakes)	Insufficient sample material	Insufficient sample material	Insufficient sample material	Insufficient sample material	Insufficient sample material	Insufficient sample material	Insufficient sample material	Insufficient sample material
NB6558	TRA/HR/2022/1670/172/P	Paint (flakes)	60500	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00

Table 26. Chemical composition of concrete (cont.) as PAH compounds Benzo[k]-fluoranthene, Chrysene, Dibenzo[a,h]-anthracene, Fluoranthene, Fluorene, Indeno[1,2,3-cd]-pyrene, Naphthalene. The matrix is excluded from our UKAS accreditation, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	PAH						
			Benzo[k]-fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo[a,h]-anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno[1,2,3-cd]-pyrene (mg/kg)	Naphthalene (mg/kg)
NB6555	TRA/HR/2022/1610/163/P	Paint (flakes)	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
NB6556	TRA/HR/2022/1610/167/P	Paint (flakes)	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
NB6557	TRA/HR/2022/1670/170/P	Paint (flakes)	Insufficient sample material	Insufficient sample material	Insufficient sample material	Insufficient sample material	Insufficient sample material	Insufficient sample material	Insufficient sample material
NB6558	TRA/HR/2022/1670/172/P	Paint (flakes)	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00

Table 27. Chemical composition of paint flakes (cont.) as total PAH concentration and PAH compounds Phenanthrene and Pyrene. The matrix is excluded from our UKAS accreditation, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	PAH		
			Phenanthrene (mg/kg)	Pyrene (mg/kg)	Total PAH 16 (mg/kg)
NB6555	TRA/HR/2022/1610/163/P	Paint (flakes)	<2.00	<2.00	<1.3
NB6556	TRA/HR/2022/1610/167/P	Paint (flakes)	<2.00	<2.00	<1.3
NB6557	TRA/HR/2022/1670/170/P	Paint (flakes)	Insufficient sample material	Insufficient sample material	Insufficient sample material
NB6558	TRA/HR/2022/1670/172/P	Paint (flakes)	<2.00	<2.00	<32.0

Table 28. (Total) Gross alpha and gross beta radiation in Taki Rag. Gross alpha radiation has been assessed against ²⁴¹Am calibration source, gross beta radiation was assessed against both ¹⁴C and ⁶⁰Co sources. The matrix is excluded from our UKAS accreditation, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix*	Sampling Date (reference date)	Total Gross Activity (Bq/sample)		
				Gross Alpha (Am-241)	Gross Beta (C-14)	Gross Beta (Co-60)
NC4114	TRA-HR-2022-2071-AS12-T	Taki Rag	09/05/2023	0.29 ± 0.14	1.72 ± 0.40	1.82 ± 0.40
NC4117	TRA-HR-2022-1901-AS6-T	Taki Rag	27/04/2023	<0.25	2.72 ± 0.62	2.79 ± 0.62
NC4118	TRA-HR-2022-2771-AS9-T	Taki Rag	09/05/2023	0.26 ± 0.12	2.90 ± 0.62	3.02 ± 0.62
NC4120	TRA-HR-2022-2970-AS10-T	Taki Rag	11/05/2023	<0.18	9.9 ± 2.0	11.4 ± 2.0

Table 29. Pyrolysis analysis (Tritium and Carbon-14) and gamma spectrometry (^7Be , ^{40}K , ^{235}U , ^{231}Pa) in Taki Rags and Swab samples. Tritium and Carbon-14 fall under our UKAS accreditation. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk. Not all analyses were required for all samples as indicated by "Not Determined".

Lab Ref	Customer Ref	Matrix	Sampling Date (reference date)	Pyrolysis Analysis		Gamma Spectrometry			
				Tritium and Carbon-14		Natural Radionuclides		Uranium-235 Decay Series	
				H-3 (Bq/sample)	C-14 (Bq/sample)	Be-7 (Bq/sample)	K-40 (Bq/sample)	U-235 (Bq/sample)	Pa-231 (Bq/sample)
NC4107	TRA-HR-2022-1751-AS1-T	Taki Rag	27/04/2023	Not Determined	Not Determined	<4.8*	<2.5*	<0.59*	<4.8*
NC4108	TRA-HR-2022-1751-AS2-T	Taki Rag	27/04/2023	Not Determined	Not Determined	<4.3*	<2.6*	<0.5*	<4.6*
NC4109	TRA-HR-2022-1752-AS3-T	Taki Rag	27/04/2023	Not Determined	Not Determined	<5.6*	<4.0*	<0.6*	<5.4*
NC4110	TRA-HR-2022-1752-AS4-T	Taki Rag	27/04/2023	Not Determined	Not Determined	<5.4*	<4.0*	<0.47*	<4.8*
NC4111	TRA-HR-2022-1901-AS5-T	Taki Rag	27/04/2023	Not Determined	Not Determined	<5.3*	<2.4*	<0.61*	<5.0*
NC4112	TRA-HR-2022-1951-AS7-T	Taki Rag	27/04/2023	Not Determined	Not Determined	<4.1*	<2.5*	<0.52*	<4.4*
NC4113	TRA-HR-2022-2752-AS8-T	Taki Rag	09/05/2023	Not Determined	Not Determined	<4.6*	<4.0*	<0.60*	<5.2*
NC4114	TRA-HR-2022-2071-AS12-T	Taki Rag	09/05/2023	<3.9	1.77 ± 0.98	<4.5*	<4.1*	<0.47*	<4.8*
NC4117	TRA-HR-2022-1901-AS6-T	Taki Rag	27/04/2023	4.6 ± 2.4	5.8 ± 1.5	<5.3*	<2.6*	<0.6*	<5.2*
NC4118	TRA-HR-2022-2771-AS9-T	Taki Rag	09/05/2023	<3.9	2.4 ± 1.2	<3.9*	<2.6*	<0.5*	<4.4*
NC4120	TRA-HR-2022-2970-AS10-T	Taki Rag	11/05/2023	234 ± 27	39.8 ± 4.2	<5.4*	<4.1*	<0.65*	<6.0*
NC4121	TRA-HR-2022-2970-AS10-S	Swab (Filter Paper)	11/05/2023	Not Determined	Not Determined	<3.9	<3.1	<0.34	<3.8
NC4123	TRA-HR-2022-2970-AS11-T	Taki Rag	09/05/2023	Not Determined	Not Determined	<12*	<3.0*	<1.1*	<11*
NC4124	TRA-HR-2022-2970-AS11-S	Swab (Filter Paper)	09/05/2023	Not Determined	Not Determined	<2.6	<1.9	<0.34	<3.0

Table 30. Gamma spectrometry in Taki Rags and Swab samples for the ^{232}Th decay series (^{228}Ra , ^{228}Ac , ^{212}Pb , ^{212}Bi , ^{208}Tl). ^{228}Ra has been estimated assuming secular equilibrium of its daughter nuclide ^{228}Ac . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix	Sampling Date (reference date)	Gamma Spectrometry				
				Thorium-232 Decay Series				
				Ra-228 via Ac-228 (Bq/sample)	Ac-228 (Bq/sample)	Pb-212 (Bq/sample)	Bi-212 (Bq/sample)	Tl-208 (Bq/sample)
NC4107	TRA-HR-2022-1751-AS1-T	Taki Rag*	27/04/2023	<0.54	<0.54	<0.21	<2.0	<0.16
NC4108	TRA-HR-2022-1751-AS2-T	Taki Rag*	27/04/2023	<0.51	<0.51	<0.19	<1.5	<0.13
NC4109	TRA-HR-2022-1752-AS3-T	Taki Rag*	27/04/2023	<0.74	<0.74	<0.22	<2.3	<0.15
NC4110	TRA-HR-2022-1752-AS4-T	Taki Rag*	27/04/2023	<0.79	<0.79	<0.20	<2.4	<0.18
NC4111	TRA-HR-2022-1901-AS5-T	Taki Rag*	27/04/2023	<0.57	<0.57	<0.21	<2.0	<0.15
NC4112	TRA-HR-2022-1951-AS7-T	Taki Rag*	27/04/2023	<0.52	<0.52	<0.19	<1.7	<0.13
NC4113	TRA-HR-2022-2752-AS8-T	Taki Rag*	09/05/2023	<0.74	<0.74	<0.21	<2.2	<0.16
NC4114	TRA-HR-2022-2071-AS12-T	Taki Rag*	09/05/2023	<0.83	<0.83	<0.21	<2.3	<0.18
NC4117	TRA-HR-2022-1901-AS6-T	Taki Rag*	27/04/2023	<0.63	<0.63	<0.22	<1.9	<0.16
NC4118	TRA-HR-2022-2771-AS9-T	Taki Rag*	09/05/2023	<0.51	<0.51	<0.19	<1.6	<0.13
NC4120	TRA-HR-2022-2970-AS10-T	Taki Rag*	11/05/2023	<0.89	<0.89	<0.23	<2.6	<0.18
NC4121	TRA-HR-2022-2970-AS10-S	Swab (Filter Paper)	11/05/2023	<0.81	<0.81	<0.16	<2.3	<0.16
NC4123	TRA-HR-2022-2970-AS11-T	Taki Rag*	09/05/2023	<2.5	<2.5	<0.41	<6.6	<0.38
NC4124	TRA-HR-2022-2970-AS11-S	Swab (Filter Paper)	09/05/2023	<0.35	<0.35	<0.13	<1.2	<0.094

Table 31. Gamma spectrometry in Taki Rags and Swab samples for the ^{238}U decay series (^{234}Th , $^{234\text{m}}\text{Pa}$, ^{226}Ra , ^{214}Pb , ^{214}Bi , ^{210}Pb). Note that ^{226}Ra has only one gamma ray at 186 keV and the major gamma ray from ^{235}U also occurs at 186 keV. ^{235}U can be measured by the lower abundance gamma ray at 144 keV and if a positive result for ^{235}U is reported the ^{226}Ra result will be overestimated. If ^{235}U is below the LoD there may still be a contribution to the ^{226}Ra signal from ^{235}U and the ^{226}Ra result may still be overestimated. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix	Sampling Date (reference date)	Gamma Spectrometry					
				Uranium-238 Decay Series					
				Th-234 (Bq/g)	Pa-234m (Bq/g)	Ra-226* (Bq/g)	Pb-214 (Bq/g)	Bi-214 (Bq/g)	Pb-210 (Bq/g)
NC4107	TRA-HR-2022-1751-AS1-T	Taki Rag*	27/04/2023	<2.6	<22	<3.0	<0.30	<0.35	<2.1
NC4108	TRA-HR-2022-1751-AS2-T	Taki Rag*	27/04/2023	<1.5	<15	<2.2	<0.25	<0.29	<1.4
NC4109	TRA-HR-2022-1752-AS3-T	Taki Rag*	27/04/2023	<1.9	<22	<2.4	<0.31	<0.35	<2.0
NC4110	TRA-HR-2022-1752-AS4-T	Taki Rag*	27/04/2023	<1.7	<22	<2.1	<0.30	<0.36	<1.3
NC4111	TRA-HR-2022-1901-AS5-T	Taki Rag*	27/04/2023	<2.7	<22	<3.0	<0.30	<0.35	<2.0
NC4112	TRA-HR-2022-1951-AS7-T	Taki Rag*	27/04/2023	<1.5	<15	<2.2	<0.25	<0.28	<1.4
NC4113	TRA-HR-2022-2752-AS8-T	Taki Rag*	09/05/2023	<1.9	<19	<2.4	<0.31	<0.37	<2.0
NC4114	TRA-HR-2022-2071-AS12-T	Taki Rag*	09/05/2023	<1.7	<21	<2.2	<0.29	<0.37	<1.3
NC4117	TRA-HR-2022-1901-AS6-T	Taki Rag*	27/04/2023	<2.5	<22	<3.0	<0.30	<0.33	<2.0
NC4118	TRA-HR-2022-2771-AS9-T	Taki Rag*	09/05/2023	<1.4	<15	<2.3	<0.26	<0.29	<1.3
NC4120	TRA-HR-2022-2970-AS10-T	Taki Rag*	11/05/2023	<2.1	<26	<2.6	<0.33	<0.40	<2.2
NC4121	TRA-HR-2022-2970-AS10-S	Swab (Filter Paper)	11/05/2023	<1.1	<24	<1.6	<0.23	<0.32	<0.83
NC4123	TRA-HR-2022-2970-AS11-T	Taki Rag*	09/05/2023	<3.3	<80	<4.4	<0.58	<0.77	<3.3
NC4124	TRA-HR-2022-2970-AS11-S	Swab (Filter Paper)	09/05/2023	<0.89	<11	<1.6	<0.18	<0.21	<0.76

Table 32. Gamma spectrometry in Taki Rags and Swab samples for the artificial radionuclides ⁵⁴Mn, ⁵⁹Fe, ⁵⁷Co, ⁵⁸Co, ⁶⁰Co, ⁶⁵Zn. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (1)					
				Mn-54 (Bq/sample)	Fe-59 (Bq/sample)	Co-57 (Bq/sample)	Co-58 (Bq/sample)	Co-60 (Bq/sample)	Zn-65 (Bq/sample)
NC4107	TRA-HR-2022-1751-AS1-T	Taki Rag*	27/04/2023	<0.20	<2.4	<0.085	<0.45	<0.17	<0.46
NC4108	TRA-HR-2022-1751-AS2-T	Taki Rag*	27/04/2023	<0.16	<1.9	<0.082	<0.37	<0.14	<0.40
NC4109	TRA-HR-2022-1752-AS3-T	Taki Rag*	27/04/2023	<0.22	<3.1	<0.097	<0.53	<0.21	<0.56
NC4110	TRA-HR-2022-1752-AS4-T	Taki Rag*	27/04/2023	<0.21	<3.5	<0.072	<0.52	<0.21	<0.61
NC4111	TRA-HR-2022-1901-AS5-T	Taki Rag*	27/04/2023	<0.18	<2.6	<0.083	<0.46	<0.20	<0.45
NC4112	TRA-HR-2022-1951-AS7-T	Taki Rag*	27/04/2023	<0.15	<2.2	<0.081	<0.38	0.293 ± 0.083	<0.37
NC4113	TRA-HR-2022-2752-AS8-T	Taki Rag*	09/05/2023	<0.19	<2.6	<0.093	<0.47	0.47 ± 0.17	<0.60
NC4114	TRA-HR-2022-2071-AS12-T	Taki Rag*	09/05/2023	<0.23	<2.9	<0.068	<0.54	<0.23	<0.56
NC4117	TRA-HR-2022-1901-AS6-T	Taki Rag*	27/04/2023	<0.20	<2.7	<0.081	<0.51	0.64 ± 0.13	<0.47
NC4118	TRA-HR-2022-2771-AS9-T	Taki Rag*	09/05/2023	<0.14	<1.7	<0.079	<0.34	<0.14	<0.38
NC4120	TRA-HR-2022-2970-AS10-T	Taki Rag*	11/05/2023	<0.25	<2.6	<0.11	<0.53	5.93 ± 0.44	<0.70
NC4121	TRA-HR-2022-2970-AS10-S	Swab (Filter Paper)	11/05/2023	<0.22	<2.3	<0.050	<0.50	7.43 ± 0.52	<0.62
NC4123	TRA-HR-2022-2970-AS11-T	Taki Rag*	09/05/2023	<0.69	<7.6	<0.18	<1.6	97.9 ± 5.2	<2.0
NC4124	TRA-HR-2022-2970-AS11-S	Swab (Filter Paper)	09/05/2023	<0.11	<1.3	<0.053	<0.26	<0.12	<0.31

Table 33. Gamma spectrometry in Taki Rags and Swab samples for the artificial radionuclides ⁹⁵Zr, ⁹⁴Nb, ⁹⁵Nb, ¹⁰⁶Ru, ¹⁰⁶Rh, ^{108m}Ag. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (2)					
				Zr-95 (Bq/sample)	Nb-94 (Bq/sample)	Nb-95 (Bq/sample)	Ru-106 (Bq/sample)	Rh-106 (Bq/sample)	Ag-108m (Bq/sample)
NC4107	TRA-HR-2022-1751-AS1-T	Taki Rag*	27/04/2023	<0.97	<0.15	<1.7	<1.6	<1.6	<0.15
NC4108	TRA-HR-2022-1751-AS2-T	Taki Rag*	27/04/2023	<0.75	<0.12	<1.3	<1.3	<1.3	<0.11
NC4109	TRA-HR-2022-1752-AS3-T	Taki Rag*	27/04/2023	<1.0	<0.15	<1.8	<1.7	<1.7	<0.17
NC4110	TRA-HR-2022-1752-AS4-T	Taki Rag*	27/04/2023	<1.1	<0.18	<1.9	<1.9	<1.9	<0.18
NC4111	TRA-HR-2022-1901-AS5-T	Taki Rag*	27/04/2023	<0.96	<0.14	<1.7	<1.5	<1.5	<0.15
NC4112	TRA-HR-2022-1951-AS7-T	Taki Rag*	27/04/2023	<0.75	<0.11	<1.4	<1.3	<1.3	<0.12
NC4113	TRA-HR-2022-2752-AS8-T	Taki Rag*	09/05/2023	<0.94	<0.15	<1.6	<1.7	<1.7	<0.16
NC4114	TRA-HR-2022-2071-AS12-T	Taki Rag*	09/05/2023	<1.1	<0.18	<1.6	<1.7	<1.7	<0.16
NC4117	TRA-HR-2022-1901-AS6-T	Taki Rag*	27/04/2023	<0.96	<0.15	<1.7	<1.6	<1.6	<0.15
NC4118	TRA-HR-2022-2771-AS9-T	Taki Rag*	09/05/2023	<0.65	<0.12	<1.1	<1.3	<1.3	<0.12
NC4120	TRA-HR-2022-2970-AS10-T	Taki Rag*	11/05/2023	<1.1	<0.20	<1.7	<1.9	<1.9	<0.18
NC4121	TRA-HR-2022-2970-AS10-S	Swab (Filter Paper)	11/05/2023	<0.96	<0.18	<1.6	<1.5	<1.5	<0.16
NC4123	TRA-HR-2022-2970-AS11-T	Taki Rag*	09/05/2023	<2.9	<0.59	<4.5	<4.4	<4.4	<0.48
NC4124	TRA-HR-2022-2970-AS11-S	Swab (Filter Paper)	09/05/2023	<0.52	<0.082	<0.77	<0.84	<0.84	<0.087

Table 34. Gamma spectrometry in Taki Rags and Swab samples for the artificial radionuclides ^{110m}Ag , ^{124}Sb , ^{125}Sb , ^{129}I , ^{131}I , ^{134}Cs . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (3)					
				Ag-110m (Bq/sample)	Sb-124 (Bq/sample)	Sb-125 (Bq/sample)	I-129 (Bq/sample)	I-131 (Bq/sample)	Cs-134 (Bq/sample)
NC4107	TRA-HR-2022-1751-AS1-T	Taki Rag*	27/04/2023	<0.26	<1.6	<0.80	<1.1	<6200	<0.19
NC4108	TRA-HR-2022-1751-AS2-T	Taki Rag*	27/04/2023	<0.23	<1.2	<0.68	<0.82	<5900	<0.15
NC4109	TRA-HR-2022-1752-AS3-T	Taki Rag*	27/04/2023	<0.30	<1.7	<0.84	<1.0	<7100	<0.21
NC4110	TRA-HR-2022-1752-AS4-T	Taki Rag*	27/04/2023	<0.33	<1.9	<0.80	<0.67	<6800	<0.23
NC4111	TRA-HR-2022-1901-AS5-T	Taki Rag*	27/04/2023	<0.26	<1.7	<0.81	<1.1	<6500	<0.21
NC4112	TRA-HR-2022-1951-AS7-T	Taki Rag*	27/04/2023	<0.23	<1.2	<0.63	<0.80	<5800	<0.15
NC4113	TRA-HR-2022-2752-AS8-T	Taki Rag*	09/05/2023	<0.29	<1.6	<0.82	<1.1	<2600	<0.2
NC4114	TRA-HR-2022-2071-AS12-T	Taki Rag*	09/05/2023	<0.33	<1.7	<0.80	<0.64	<2400	<0.22
NC4117	TRA-HR-2022-1901-AS6-T	Taki Rag*	27/04/2023	<0.29	<1.7	<0.76	<1.1	<6800	<0.20
NC4118	TRA-HR-2022-2771-AS9-T	Taki Rag*	09/05/2023	<0.22	<1.1	<0.65	<0.85	<2100	<0.15
NC4120	TRA-HR-2022-2970-AS10-T	Taki Rag*	11/05/2023	<0.40	<1.4	<0.93	<1.4	<2500	<0.25
NC4121	TRA-HR-2022-2970-AS10-S	Swab (Filter Paper)	11/05/2023	<0.35	<1.3	<0.74	<0.45	<1700	<0.25
NC4123	TRA-HR-2022-2970-AS11-T	Taki Rag*	09/05/2023	<1.2	<2.1	<2.1	<2.4	<5700	<0.68
NC4124	TRA-HR-2022-2970-AS11-S	Swab (Filter Paper)	09/05/2023	<0.17	<0.72	<0.46	<0.45	<1500	<0.12

Table 35. Gamma spectrometry in Taki Rags and Swab samples for the artificial radionuclides ^{137}Cs , ^{133}Ba , ^{144}Ce , ^{152}Eu , ^{154}Eu , ^{155}Eu . The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix	Sampling Date (reference date)	Gamma Spectrometry					
				Artificial Radionuclides (4)					
				Cs-137 (Bq/sample)	Ba-133 (Bq/sample)	Ce-144 (Bq/sample)	Eu-152 (Bq/sample)	Eu-154 (Bq/sample)	Eu-155 (Bq/sample)
NC4107	TRA-HR-2022-1751-AS1-T	Taki Rag*	27/04/2023	<0.15	<0.20	<0.68	<0.37	<0.47	<0.26
NC4108	TRA-HR-2022-1751-AS2-T	Taki Rag*	27/04/2023	<0.13	<0.18	<0.66	<0.34	<0.34	<0.23
NC4109	TRA-HR-2022-1752-AS3-T	Taki Rag*	27/04/2023	<0.16	<0.21	<0.78	<0.40	<0.54	<0.29
NC4110	TRA-HR-2022-1752-AS4-T	Taki Rag*	27/04/2023	<0.17	<0.19	<0.59	<0.34	<0.51	<0.21
NC4111	TRA-HR-2022-1901-AS5-T	Taki Rag*	27/04/2023	<0.15	<0.20	<0.68	<0.38	<0.46	<0.24
NC4112	TRA-HR-2022-1951-AS7-T	Taki Rag*	27/04/2023	<0.12	<0.17	<0.64	<0.33	<0.37	<0.23
NC4113	TRA-HR-2022-2752-AS8-T	Taki Rag*	09/05/2023	<0.16	<0.22	<0.76	<0.41	<0.55	<0.28
NC4114	TRA-HR-2022-2071-AS12-T	Taki Rag*	09/05/2023	<0.16	<0.18	<0.58	<0.35	<0.62	<0.21
NC4117	TRA-HR-2022-1901-AS6-T	Taki Rag*	27/04/2023	<0.15	<0.20	<0.68	<0.38	<0.48	<0.25
NC4118	TRA-HR-2022-2771-AS9-T	Taki Rag*	09/05/2023	<0.12	<0.19	<0.63	<0.34	<0.38	<0.24
NC4120	TRA-HR-2022-2970-AS10-T	Taki Rag*	11/05/2023	<0.20	<0.23	<0.77	<0.49	<0.59	<0.29
NC4121	TRA-HR-2022-2970-AS10-S	Swab (Filter Paper)	11/05/2023	<0.16	<0.17	<0.41	<0.32	<0.57	<0.15
NC4123	TRA-HR-2022-2970-AS11-T	Taki Rag*	09/05/2023	<0.46	<0.38	<1.3	2.5 ± 0.34	<0.99	<0.45
NC4124	TRA-HR-2022-2970-AS11-S	Swab (Filter Paper)	09/05/2023	<0.083	<0.13	<0.43	<0.23	<0.33	<0.15

Table 36. Gamma spectrometry in Taki Rags and Swab samples for the artificial radionuclides ^{239}Np and ^{241}Am , and the radionuclides from the ^{237}Np decay series ^{237}Np and ^{233}Pa in Taki rag and swab samples. The matrix is excluded from our UKAS accreditation for gamma spectrometry, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix	Sampling Date (reference date)	Gamma Spectrometry			
				Artificial Radionuclides (5)		Neptunium-237 Decay Series	
				Np-239 (Bq/sample)	Am-241 (Bq/sample)	Np-237 (Bq/sample)	Pa-233 (Bq/sample)
NC4107	TRA-HR-2022-1751-AS1-T	Taki Rag*	27/04/2023	<0.81	<0.23	<0.54	<0.19
NC4108	TRA-HR-2022-1751-AS2-T	Taki Rag*	27/04/2023	<0.58	<0.19	<0.51	<0.14
NC4109	TRA-HR-2022-1752-AS3-T	Taki Rag*	27/04/2023	<0.74	<0.24	<0.60	<0.18
NC4110	TRA-HR-2022-1752-AS4-T	Taki Rag*	27/04/2023	<0.38	<0.22	<0.52	<0.13
NC4111	TRA-HR-2022-1901-AS5-T	Taki Rag*	27/04/2023	<0.80	<0.22	<0.55	<0.19
NC4112	TRA-HR-2022-1951-AS7-T	Taki Rag*	27/04/2023	<0.59	<0.20	<0.50	<0.15
NC4113	TRA-HR-2022-2752-AS8-T	Taki Rag*	09/05/2023	<0.74	<0.25	<0.60	<0.18
NC4114	TRA-HR-2022-2071-AS12-T	Taki Rag*	09/05/2023	<0.37	<0.21	<0.53	<0.13
NC4117	TRA-HR-2022-1901-AS6-T	Taki Rag*	27/04/2023	<0.81	<0.22	<0.54	<0.18
NC4118	TRA-HR-2022-2771-AS9-T	Taki Rag*	09/05/2023	<0.58	<0.21	<0.53	<0.14
NC4120	TRA-HR-2022-2970-AS10-T	Taki Rag*	11/05/2023	<0.82	<0.27	<0.69	<0.20
NC4121	TRA-HR-2022-2970-AS10-S	Swab (Filter Paper)	11/05/2023	<0.26	<0.17	<0.42	<0.085
NC4123	TRA-HR-2022-2970-AS11-T	Taki Rag*	09/05/2023	<1.4	<0.50	<1.3	<0.29
NC4124	TRA-HR-2022-2970-AS11-S	Swab (Filter Paper)	09/05/2023	<0.27	<0.13	<0.34	<0.081

Table 37. Beta emitters ^{36}Cl , ^{55}Fe , ^{63}Ni by Liquid Scintillation Counting in Taki Rag. The beta emitters are not UKAS accredited, as indicated by the asterisk.

Lab Ref	Customer Ref	Matrix	Sampling Date (reference date)	Liquid Scintillation Counting		
				Cl-36 (Bq/sample)*	Fe-55 (Bq/sample)*	Ni-63 (Bq/sample)*
NC4114	TRA-HR-2022-2071-AS12-T	Taki Rag	09/05/2023	<0.54	<1.1	<1.7
NC4117	TRA-HR-2022-1901-AS6-T	Taki Rag	27/04/2023	<0.41	<1.4	<1.8
NC4118	TRA-HR-2022-2771-AS9-T	Taki Rag	09/05/2023	<0.65	<1.1	<1.8
NC4120	TRA-HR-2022-2970-AS10-T	Taki Rag	11/05/2023	6.4 ± 0.73	<1.2	<1.8

4 APPENDIX ON THE GAMMA SPECTROMETRY OF ^{129}I AND ^{152}Eu : REGION BETWEEN 20 KEV AND 130 KEV

^{129}I has a main photopeak at 39.5 keV, whilst ^{152}Eu also has a (minor) photopeak at that energy. To avoid any false positive identification, the x-rays of ^{129}I at 29.5 + 29.8 keV and at 33.6 to 34.5 keV are taken into consideration as well. These x-rays were absent in the samples, and therefore, identification of ^{129}I cannot be confirmed, and an LOD has to be reported. ^{152}Eu has been identified in the samples based on the other photopeaks present. The difference between the ^{152}Eu standard and identified photopeaks in the sample(s) is due to the relatively low emission probability of the un-identified photopeaks in the sample.

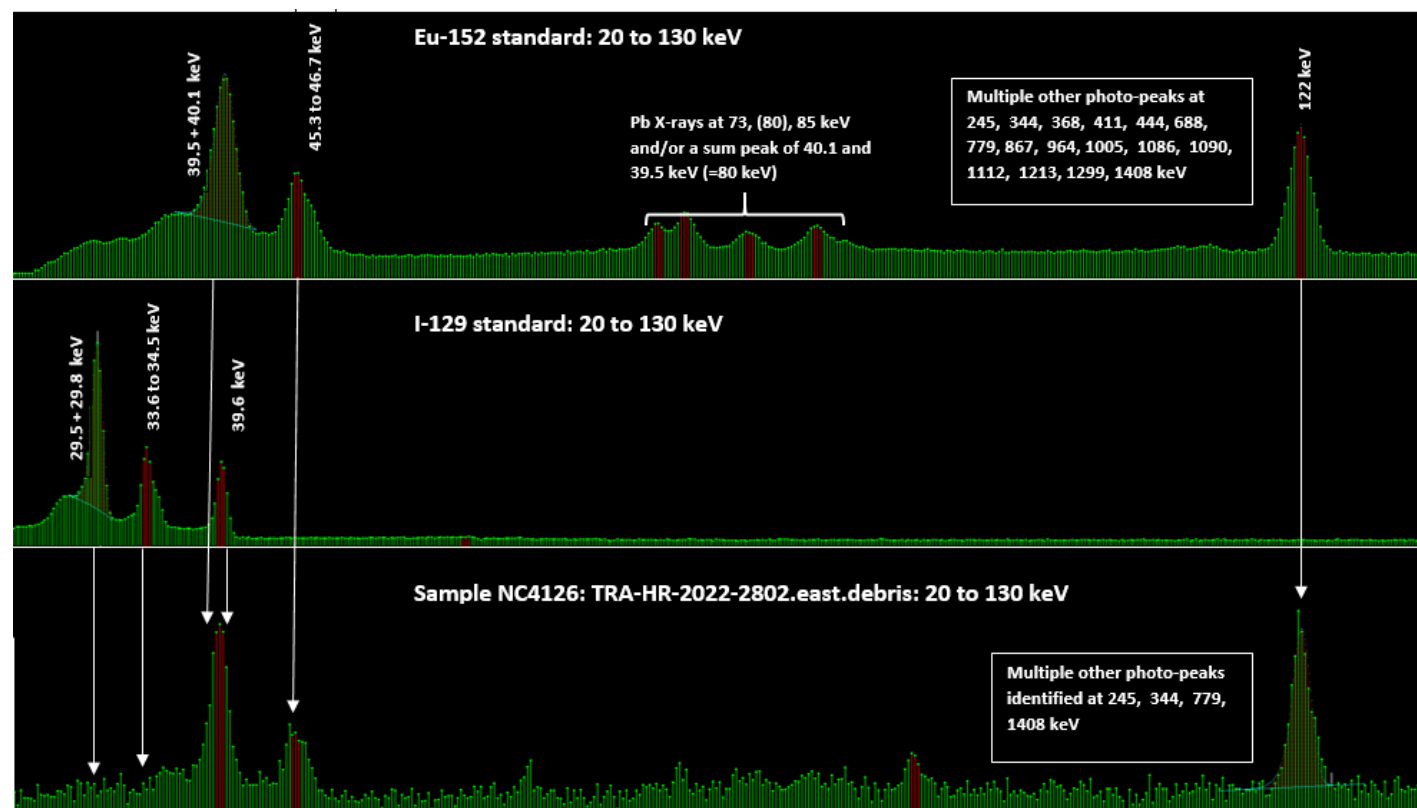


Figure 6. Gamma spectrum in the 20 keV and 130 keV of a typical sample (bottom panel), the ^{152}Eu calibration standard (upper panel) and ^{129}I calibration standard (middle panel).

- End of Test Report -