



## SUPPLEMENTARY REPORT FOR AISS REPORT ROUND 15

AISS sample S030 was a soil mixture containing at least two small pieces of chrysotile asbestos cement. The cement was from a profiled section of roofing. This would typically contain around 10-15% chrysotile asbestos. The SCA Blue Book method Appendix 4 lists the percentage of asbestos in different ACMs with a minimum and maximum figure and states at the bottom “Highlighted lines indicate where asbestos content is assumed as a worst case scenario, and maximum value of asbestos should be used in relevant calculations.” Asbestos cement is highlighted with the maximum value being 50%. Along with being in the Information Book for Participants (section 5b) which states “the method used by UK laboratories undertaking quantitative asbestos analysis should be based on The Standing Committee of Analysts (SCA Blue Book) method for quantification of asbestos in soils and associated materials and be capable of quantifying the asbestos present in ACM’s (or ACM fragments) and loose unbound asbestos fibres”, labs were also reminded of this on the 16 and 23 February via email.

Information from the round indicated a number of labs used several percentage figures with a range including 10%, 15%, 25%, 40% and 50%. We know from the ACM we put in the sample that the true figure will be around 15%. However we are testing against a method that states as a worst case scenario 50% should be used and we expect all labs to be applying the same figure.

The z scores originally applied will be upheld but for those laboratories who have supplied quantification data this supplementary report indicates what z score would have been achieved if a 50% figure had been applied.

We are aware that different laboratories have used different percentages for ACMs in the past and the Blue Book method is used to ensure consistency. In order to compare laboratories, AISS as a proficiency testing scheme requires all participants to base their percentage figures on the only published method.

The median of quantitative results submitted was 0.248. For the purposes of the z score we are using 40% of the median - 0.10.

- z-score of  $< \pm 2$ , Satisfactory
- z-score between  $\pm 2 - \pm 3$ , Questionable
- z-score of  $> \pm 3$ , Unsatisfactory

The assigned percentage for this sample is 0.25%.



**Report**  
**Round 15**  
**March 2018**



**ASBESTOS IN SOILS SCHEME**

Lab	Country	Weight of Sample (g) - assumed dry	Weight of ACM (g)	ACM % applied in submitted result	Submitted Result (%)	Result if 50% applied	z Score if 50% applied
766	UK	308.00	3.22	25	0.008	0.523	2.75
803	UK	294.24	1.36	25	0.116	0.231	-0.19
814	UK	295.00	1.52	50	0.260	0.258	0.08
869	UK	279.97	1.48	50	0.260	0.264	0.14
1181	France	300.00	1.50	10	0.039	0.250	0.00
1277	UK	295.45	1.46	25	0.130	0.247	-0.03
1329	UK	294.46	1.65	25	0.140	0.281	0.31
1365	Ireland	299.70	1.37	50	0.230	0.229	-0.21
1457	UK	300.65	1.36	50	0.256	0.226	-0.24
1495	UK	284.77	1.10	15	0.058	0.193	-0.57
1562	Italy	289.10	0.74	25	0.093	0.128	-1.24
1579	Italy	280.00	1.44	50	0.075	0.257	0.07
1583	UK	302.00	1.50	25	0.126	0.248	-0.02
1666	France	300.00	1.26	19	0.080	0.210	-0.40
1670	UK	285.71	0.21	15	0.074	0.037	-2.15
1680	Italy	291.00	1.39	40	0.190	0.239	-0.11
1711	Poland	297.00	1.41	15	0.071	0.237	-0.13
1753	UK	300.00	1.47	25	0.127	0.245	-0.05
1774	Italy	291.33	1.48	15	0.080	0.254	0.04
1814	Italy	282.30	1.44	15	0.077	0.255	0.05
1821	France	293.00	1.62	10	0.055	0.276	0.26
1899	UK	299.70	1.44	25	0.123	0.240	-0.10
1905	UK	285.30	1.47	25	0.128	0.257	0.07
1975	UK	299.20	1.52	25	0.133	0.255	0.05
1976	The Netherlands	283.50	1.35	15	0.070	0.238	-0.12
1985	UK	300.30	1.59	15	0.080	0.265	0.15
1995	UK	297.24	1.46	50	0.246	0.246	-0.04
2026	Italy	299.60	1.51	40	0.200	0.252	0.02

