

Survey Reference	54034/AS/0812
Client	Debut Services (South West) Ltd
Lead Surveyor	Aaron Silvester
Assistant Surveyor	Rik Hitchcock
Start Date	24 <sup>th</sup> & 28 <sup>th</sup> August 2012
Completion Date	28 <sup>th</sup> August 2012
Reviewed By	Laura Lear

# REFURBISHMENT ASBESTOS SURVEY REPORT

## BUILDING SURVEYED:

Hangar 11  
RNAS Yeovilton  
Somerset  
BA22 8HT



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This inspection report shall not be reproduced except in full without the approval of the inspection body and the client.

Shield Environmental Services Ltd (Surveying Division) wish to advise our client/s that no obligation (actual, assumed or otherwise) maybe placed upon the client, for further work related to the recommendations from this report.



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4 CERTIFICATES IN TOTAL



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## 1: EXECUTIVE SUMMARY

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A Refurbishment Asbestos Survey, carried out in accordance with in-house asbestos surveying procedures and HSE guidance document HSG 264 was conducted at Hangar 11, RNAS Yeovilton, Somerset, BA22 8HT.

The survey was carried out by Shield Environmental Services Ltd (Surveying Division) on behalf of Debut Services on 24<sup>th</sup> & 28<sup>th</sup> August 2012.

The purpose of this survey was to locate, as far as reasonably practicable, the presence and extent of all suspected Asbestos Containing Materials (ACMs) in the building(s) prior to planned Refurbishment activities.

During the survey 20 samples of suspected ACMs were taken for analysis, none of which were found to contain asbestos. Therefore, no ACMs were found or presumed within the area of inspection and the scope of the Refurbishment/Demolition survey.



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## 1: EXECUTIVE SUMMARY (continued)

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Inaccessible areas encountered during the time of the survey, for which no information was obtained:

- Limited access due to equipment/storage, however an adequate number of samples were taken to determine the presence of ACMs

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REPORT REVIEWED BY - Laura Lear

SIGNED - *L. Lear*

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Please note Shield Environmental Services Ltd (Surveying Division) cannot be held responsible for the way in which the Client may interpret or act upon the results of this report.



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## 2: INTRODUCTION

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Shield Environmental Services Ltd (Surveying Division) has been instructed to carry out an asbestos survey by;

Debut Services (South West) Ltd

To ascertain the presence of any asbestos containing materials at;  
Hangar 11, RNAS Yeovilton, Somerset, BA22 8HT

### Description of Site

The site consists of aircraft hangar

### Survey Type

The nature of the survey is a Refurbishment Asbestos Survey as detailed in HSE publication HSG 264 Asbestos: The survey guide. The purpose of the survey is to locate and describe, as far as reasonably practicable, all ACMs in the building(s) and may involve destructive inspection, as necessary, to gain access to all areas, including those difficult to reach. A full sampling programme is undertaken to identify possible ACMs and estimates of volume and surface area made. The survey is designed to be used as a guide for tendering the removal of ACMs from the building(s) prior to Refurbishment.

This report presents the findings of the survey and analysis reports of any bulk samples taken.

### Floor Plans

Where provided floor plans should be regarded as sketch-plans and for identification purposes only. They are intended to provide a visual appreciation of the buildings surveyed, showing locations of suspected ACMs, areas of no access and where samples were taken.



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### 3: GENERAL SITE INFORMATION

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SURVEY CONSULTANTS	-	Shield Environmental Services Ltd. (Surveying Division) Shield House, Caxton Business Park, Crown Way, Warmley, Bristol, BS30 8XJ
SURVEY CONDUCTED BY	-	Aaron Silvester
ASSISTED BY	-	Rik Hitchcock
CLIENT	-	Debut Services (South West) Ltd
CLIENT CONTACT	-	Stephen Murphy
SITE ADDRESS	-	Hangar 11, RNAS Yeovilton, Somerset, BA22 8HT
SURVEY DATE(S)	-	24 <sup>th</sup> and 28 <sup>th</sup> August 2012
REPORT DATE	-	6 <sup>th</sup> September 2012
REPORT TYPED BY	-	Jade Hubbard
REPORT ISSUED	-	19 <sup>th</sup> September 2012
REPORT REFERENCE	-	54034/AS/0812



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### 3: GENERAL SITE INFORMATION (continued)

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- Areas Included in the Survey:
  - Steam pipework & associated plant, ceiling beams, tops of radiant heaters & walls subject to proposed refurbishment works within Hangar 11, RNAS Yeovilton, Somerset, BA22 8HT were included in the survey
- Agreed Exclusions and Inaccessible Areas:
  - All other areas within Hangar 11, RNAS Yeovilton, Somerset, BA22 8HT were excluded from the survey
- Inaccessible areas encountered during the time of the survey, for which no information was obtained:
  - Limited access due to equipment/storage, however an adequate number of samples were taken to determine the presence of ACMs
- Survey Methodology:
  - In-house asbestos surveying procedures and HSE guidance document HSG 264.
- Survey Type
  - Refurbishment Survey as defined in HSE guidance document HSG 264.
- Agreed Variations or Deviations from the standard HSG 264 method:
  - None
- Areas Excluded from the Survey (Areas outside of ownership and control):
  - None



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#### 4: CONCLUSIONS AND ACTIONS

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Room No	Asbestos Containing Product	Recommended Actions	Urgency
Not Applicable	Not Applicable	Not Applicable	Not Applicable



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## 5: SURVEY METHOD

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The survey is conducted in accordance with our in-house asbestos surveying procedures and HSE guidance document HSG 264. Where appropriate, bulk samples of suspected ACMs are taken from the property.

Representative samples are also taken of any materials that may be confused with ACMs. Sampling location stickers, bearing the individual samples unique identification number, are applied to all sample points where practicable, for future reference.

Products that are very unlikely to contain asbestos are not sampled (e.g. wall paper, plasterboard, chipboard, wood etc).

All samples taken are sent to a UKAS Accredited Laboratory for analysis by polarised light microscopy (PLM) as **per the method prescribed in HSG248 Asbestos: The analysts' guide for sampling, analysis and clearance procedures**. Completed bulk sample analysis test reports for all samples taken are appended for client review.

A Survey Report Form (SRF) is completed for each suspect sample taken, for materials strongly presumed to contain asbestos (i.e. materials visually similar to positively identified ACMs) and for areas presumed to contain asbestos (i.e. areas where no access could be gained at the time of the survey and non-accessed items of (electrical) equipment and plant.

Each SRF contains a colour photograph, individual material risk assessment scores (as prescribed under HSG 264), management recommendations and general observations / comments (where appropriate).

The SRFs are combined together to form a site-specific asbestos register (see Appendix 1).



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## 6: GENERAL COMMENTS

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This report only relates to the situation on the day(s) of the inspection and cannot take into account subsequent changes in circumstances. Materials were only sampled where the surveyor considered there was a high probability that they may contain asbestos. This report contains findings based upon visual inspection and results of laboratory analysis.

During the course of the survey all reasonable efforts were made to identify the presence of asbestos containing materials within the surveyed areas however, asbestos containing materials are sometimes concealed within the fabric of a building or within sealed building voids, so it is not always possible to regard the findings of any survey as being definitive. Therefore, it must always remain a possibility that further asbestos containing materials may be found during any refurbishment works.

Where areas have been identified as inaccessible within the report, it indicates that the area specified was not accessible to the surveyor at the time of the inspection, either because such areas were locked and despite requests for access to be arranged none was, or to gain entry would require an unreasonable degree of dismantling to the structure of the building. The client is therefore advised to the possibility of there being asbestos containing materials in such areas.

Manufactured products containing asbestos have been extremely diverse. Therefore, responsibility cannot be accepted for any consequential loss or damage resulting from non-recognition of a material that is later established as having an asbestos content.

Figures quoted in the asbestos register detailing the extent of ACMs are approximate based on visual inspection on the day of the survey and should be used as a guide only.

No responsibility can be taken for any misinterpretation of this report by third parties.

Please Note:

The content of this report should only be used for guidance in support of refurbishment works requiring the removal of ACMs and not as an actual specification of tender.



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## 6: GENERAL COMMENTS (continued)

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The survey was limited to those areas accessed at the time of the Survey.

No responsibility will be accepted for the presence of asbestos in voids (under floor, or behind wall or ceiling) or pipework ducts other than those opened up during the survey.

We have not reported on concealed spaces, which may exist within the fabric of the building where the extent and presence of these is not evident due to inaccessibility or insufficient knowledge of the structure at the time of the survey.

Representative bulk samples have been taken from all materials, which upon visual inspection appeared likely to contain asbestos.

Unless otherwise stated pipe work insulation and heating plant was not inspected in entirety. Representative samples were taken at random intervals where suspect material was observed. The scope of the works did not permit complete exposure and assessment of all pipework and heating plant.

Due to the nature and variety of asbestos uses in building construction and the complex nature of some buildings, especially where modified over the years, it is possible that some ACMs may not have been identified in the survey. Where refurbishment is to follow a refurbishment Survey, it would be prudent in any contract to allow a contingency sum to provide for such possibility.

Manufactured products containing asbestos have been extremely diverse, therefore responsibility cannot be accepted for any consequential loss or damage resulting from non-recognition of a material which is **later established as having an asbestos content. Certain 'Artex' type textured coatings and decorative plasters may contain very small quantities of asbestos. In situ, these coatings are often composed of different batches of product or may have been repaired / patched at different times. It is, therefore, possible that any 'Artex' samples taken may not be representative of the entire coating. Recent research suggests that in some cases, the fibres may have diameters below 0.1 um. These may not be visible by the optical microscopy method described in HSE publications HSG248.**



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## 7: REGISTER OF NON-ASBESTOS CONTAINING MATERIALS

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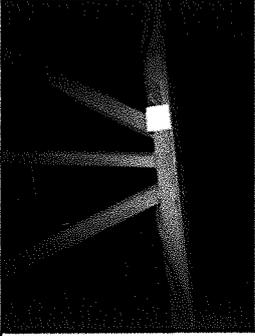
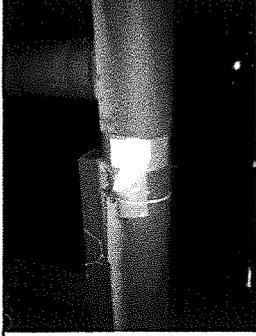
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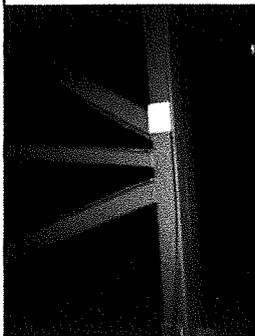
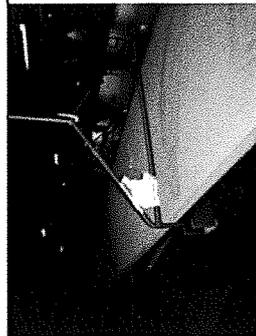
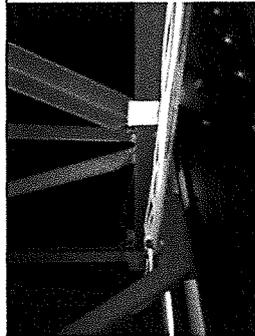
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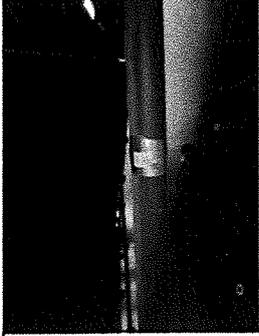
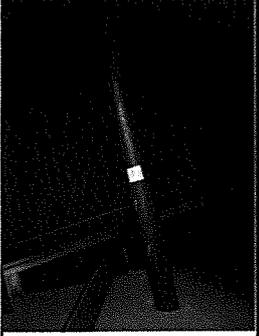
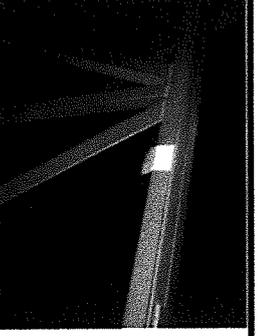


Ref	Sample No	Floor	Location	Description	Photo
1	54034/001	Ground Floor	Hangar 11 001	Dust Sample to Beams	
<b>Quantity</b>	<b>ID</b>	<b>Comments</b>			
Throughout	NAD				
Ref	Sample No	Floor	Location	Description	Photo
2	254034/002	Ground Floor	Hangar 11 001	High Level Pipe Insulation	
<b>Quantity</b>	<b>ID</b>	<b>Comments</b>			
30lm	NAD				
Ref	Sample No	Floor	Location	Description	Photo
3	254034/003	Ground Floor	Hangar 11 001	Gaskets	
<b>Quantity</b>	<b>ID</b>	<b>Comments</b>			
Throughout	NAD				
Ref	Sample No	Floor	Location	Description	Photo
4	254034/004	Ground Floor	Hangar 11 001	Dust Sample to Heaters	
<b>Quantity</b>	<b>ID</b>	<b>Comments</b>			
Throughout	NAD				

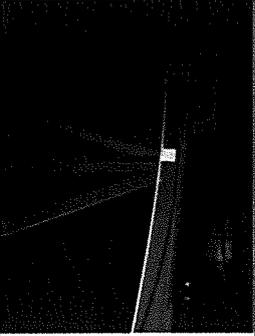
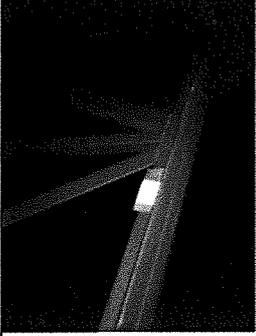
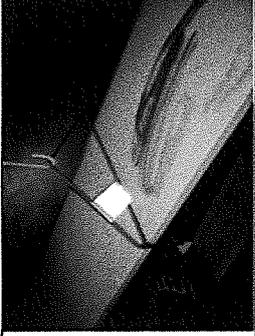
NAD – No Asbestos Detected  
 SPNTCA – Strongly Presumed Not to Contain Asbestos  
 PNTCA – Presumed Not To Contain Asbestos

Ref	Sample No	Floor	Location	Description	Photo
5	254034/005	Ground Floor	Hanger 11 001	Dust Sample to Beams	
<b>Quantity</b>	<b>ID</b>	<b>Comments</b>			
Throughout	NAD				
Ref	Sample No	Floor	Location	Description	Photo
6	254034/006	Ground Floor	Hanger 11 001	Dust Sample to Heaters	
<b>Quantity</b>	<b>ID</b>	<b>Comments</b>			
Throughout	NAD				
Ref	Sample No	Floor	Location	Description	Photo
7	254034/007	Ground Floor	Hanger 11 001	Dust Sample to Beams	
<b>Quantity</b>	<b>ID</b>	<b>Comments</b>			
Throughout	NAD				
Ref	Sample No	Floor	Location	Description	Photo
8	254034/008	Ground Floor	Hanger 11 001	Dust Sample to Heaters	
<b>Quantity</b>	<b>ID</b>	<b>Comments</b>			
Throughout	NAD				

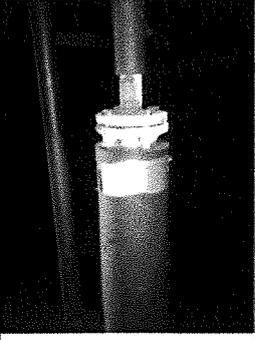
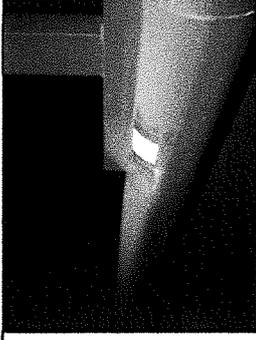
NAD – No Asbestos Detected  
 SPNTCA – Strongly Presumed Not to Contain Asbestos  
 PNTCA – Presumed Not To Contain Asbestos

<b>Ref</b>	<b>Sample No</b>	<b>Floor</b>	<b>Location</b>	<b>Description</b>	<b>Photo</b>
9	254034/009	Ground Floor	Hanger 11 001	High Level Pipework	
<b>Quantity</b>	<b>ID</b>	<b>Comments</b>			
15lm	NAD				
<b>Ref</b>	<b>Sample No</b>	<b>Floor</b>	<b>Location</b>	<b>Description</b>	<b>Photo</b>
10	254034/010	Ground Floor	Hanger 11 001	High Level Pipework	
<b>Quantity</b>	<b>ID</b>	<b>Comments</b>			
15lm	NAD				
<b>Ref</b>	<b>Sample No</b>	<b>Floor</b>	<b>Location</b>	<b>Description</b>	<b>Photo</b>
11	254034/011	Ground Floor	Hanger 11 001	Dust Sample to Heaters	
<b>Quantity</b>	<b>ID</b>	<b>Comments</b>			
Throughout	NAD				
<b>Ref</b>	<b>Sample No</b>	<b>Floor</b>	<b>Location</b>	<b>Description</b>	<b>Photo</b>
12	254034/012	Ground Floor	Hanger 11 001	Dust Sample to Beams	
<b>Quantity</b>	<b>ID</b>	<b>Comments</b>			
Throughout	NAD				

NAD – No Asbestos Detected  
 SPNTCA – Strongly Presumed Not to Contain Asbestos  
 PNTCA – Presumed Not To Contain Asbestos

<b>Ref</b>	<b>Sample No</b>	<b>Floor</b>	<b>Location</b>	<b>Description</b>	<b>Photo</b>
13	254034/013	Ground Floor	Hanger 11 001	Dust Sample to Beams	
<b>Quantity</b>	<b>ID</b>	<b>Comments</b>			
Throughout	NAD				
<b>Ref</b>	<b>Sample No</b>	<b>Floor</b>	<b>Location</b>	<b>Description</b>	<b>Photo</b>
14	254034/014	Ground Floor	Hanger 11 001	Dust Sample to Beams	
<b>Quantity</b>	<b>ID</b>	<b>Comments</b>			
Throughout	NAD				
<b>Ref</b>	<b>Sample No</b>	<b>Floor</b>	<b>Location</b>	<b>Description</b>	<b>Photo</b>
15	254034/015	Ground Floor	Hanger 11 001	Dust Sample to Heaters	
<b>Quantity</b>	<b>ID</b>	<b>Comments</b>			
Throughout	NAD				
<b>Ref</b>	<b>Sample No</b>	<b>Floor</b>	<b>Location</b>	<b>Description</b>	<b>Photo</b>
16	254034/016	Ground Floor	Hanger 11 001	Dust Sample to Heaters	
<b>Quantity</b>	<b>ID</b>	<b>Comments</b>			
Throughout	NAD				

NAD – No Asbestos Detected  
 SPNTCA – Strongly Presumed Not to Contain Asbestos  
 PNTCA – Presumed Not To Contain Asbestos

<b>Ref</b>	<b>Sample No</b>	<b>Floor</b>	<b>Location</b>	<b>Description</b>	<b>Photo</b>
17	254034/017	Ground Floor	Hanger 11 001	Gaskets	
<b>Quantity</b>	<b>ID</b>	<b>Comments</b>			
Throughout	NAD				
<b>Ref</b>	<b>Sample No</b>	<b>Floor</b>	<b>Location</b>	<b>Description</b>	<b>Photo</b>
18	254034/018	Ground Floor	Hanger 11 001	High Level Pipework	
<b>Quantity</b>	<b>ID</b>	<b>Comments</b>			
40lm	NAD				
<b>Ref</b>	<b>Sample No</b>	<b>Floor</b>	<b>Location</b>	<b>Description</b>	<b>Photo</b>
19	254034/019	Ground Floor	Hanger 11 001	Dust Sample to Beams	
<b>Quantity</b>	<b>ID</b>	<b>Comments</b>			
Throughout	NAD				
<b>Ref</b>	<b>Sample No</b>	<b>Floor</b>	<b>Location</b>	<b>Description</b>	<b>Photo</b>
20	254034/020	Ground Floor	Hanger 11 001	Wall / Cladding	
<b>Quantity</b>	<b>ID</b>	<b>Comments</b>			
Throughout	NAD				

NAD – No Asbestos Detected  
 SPNTCA – Strongly Presumed Not to Contain Asbestos  
 PNTCA – Presumed Not To Contain Asbestos

## 9: PLANS

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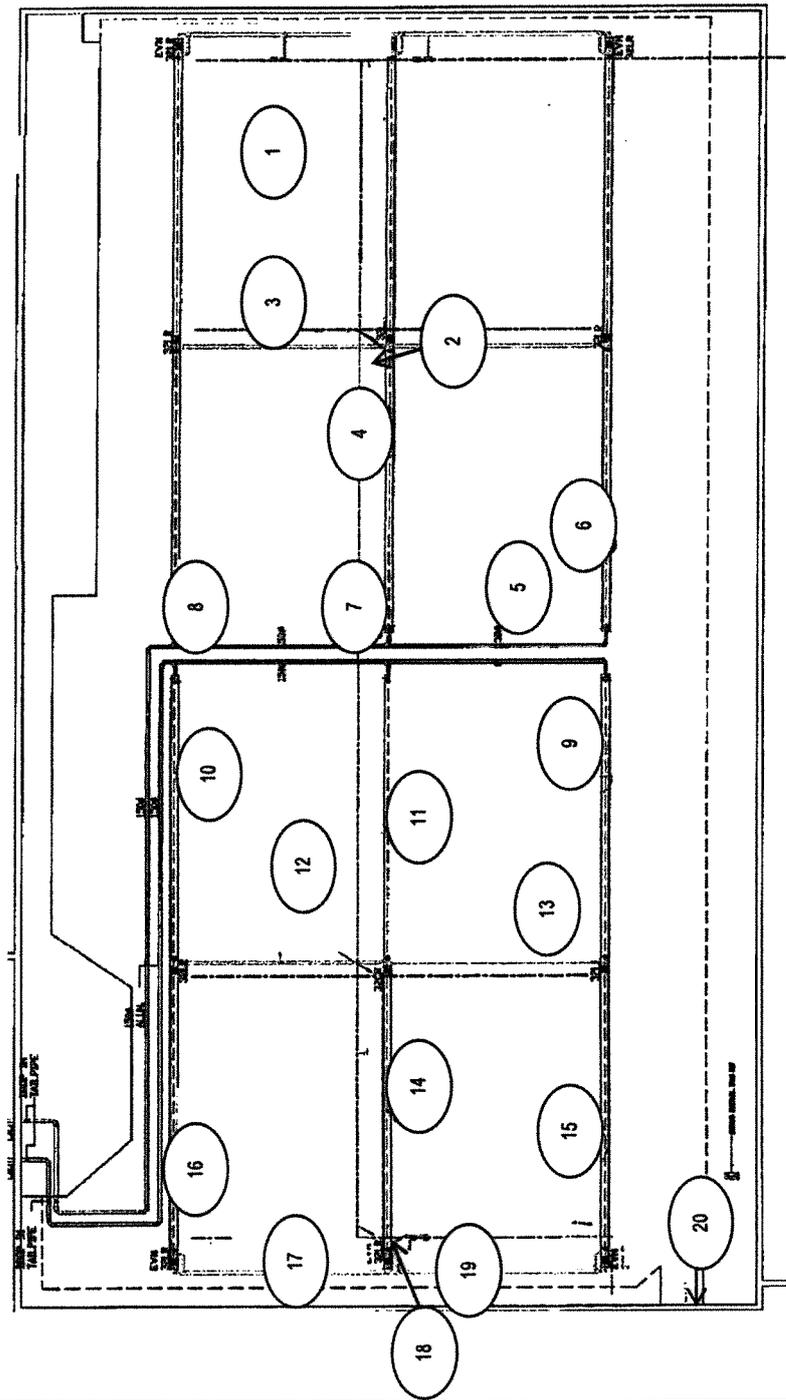
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**THIS PLAN SHOULD BE  
READ IN CONJUNCTION  
WITH THE MAIN BODY OF  
THE REPORT AND  
INDIVIDUAL SRF'S**

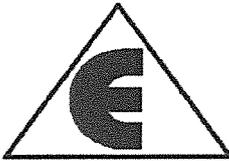


Floor Level / Area:	Hanger 11 - RNAS Yeovilton, Somerset, BA22 8HT
Plan No:	1 of 1
<b>KEY</b>	
SRFs Positive ACM	
SRFs None Asbestos	
SRFs No access or limited access gained	

Asbestos Containing Materials (ACMs) presumed, strongly presumed or identified as containing asbestos and for areas where no access has been gained indicated using red text.

Materials presumed, strongly presumed or identified as not containing asbestos indicated using black text.

10: BULK MATERIAL ANALYSIS REPORT



**ENVIROCHEM**

Analytical Laboratories Ltd.  
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PO16 8SS



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Fax: (01329) 287755  
www.envirochem.co.uk  
office@envirochem.co.uk

Our Ref: 1210828 FI 20  
Your Ref: 109673  
Date: 5 September 2012

**ASBESTOS FIBRE IDENTIFICATION REPORT**

**Client:** Shield Environmental Services Ltd (Bristol)  
Shield House, Caxton Business Park, Crown Way, Warmley, Bristol, BS30 8XJ  
**Site address:** Hangar 11, RNAS Yeovilton, Somerset, BA22 8HT  
**Sampled by:** Client  
**Date sampled/received:** 4 September 2012  
**Date analysed:** 5 September 2012  
**Analyst/s:** H. Naran

**ANALYTICAL PROCEDURE**

Fibre identification was carried out in accordance with the documented 'in-house' methods based on the HSE Guidance Note HSG 248. These employed stereo microscopy, polarized microscopy and dispersion staining techniques.

**RESULTS**

Sample no.	Sample ref.	Location	Asbestos detected	Asbestos type
B-54029/001	1210828 1FI	Dust sample to beams	No	
B-54029/002	1210828 2FI	Pipe insulation	No	
B-54029/003	1210828 3FI	Gaskets	No	
B-54029/004	1210828 4FI	Dust sample to heaters	No	
B-54029/005	1210828 5FI	Dust sample to beams	No	

**NOTES:**

- 1-Sample(s) were examined for the presence of 6 types of asbestos fibre: crocidolite (blue), amosite (brown), chrysotile (white), anthophyllite, actinolite, and tremolite.
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- 3-Envirochem is a UKAS accredited laboratory for sampling and identification of asbestos containing materials.
- 4-Comments, observations and opinions are outside the scope of UKAS accreditation.
- 5-The analytical method in the HSG248 does not quantify the amount of asbestos present, therefore UKAS accreditation does not permit quantification.
- 6-If, during fibre identification, only 1 or 2 fibres are seen and identified as asbestos, then the term 'trace asbestos identified' is used.

**SIGNATURE:**

**PRINT NAME:**

Hemma Naran

Reg. No.2378228 England. Registered Office: Envirochem, 12 The Gardens, Broadcut, Fareham, Hampshire. PO16 8SS.

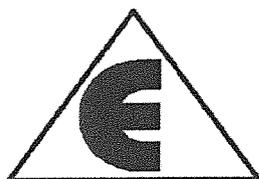


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Our Ref: 1210828 FI 20  
 Your Ref: 109673  
 Date: 5 September 2012

## ASBESTOS FIBRE IDENTIFICATION REPORT

**Client:** Shield Environmental Services Ltd (Bristol)  
 Shield House, Caxton Business Park, Crown Way, Warmley, Bristol, BS30 8XJ  
**Site address:** Hangar 11, RNAS Yeovilton, Somerset, BA22 8HT  
**Sampled by:** Client  
**Date sampled/received:** 4 September 2012  
**Date analysed:** 5 September 2012  
**Analyst/s:** H. Naran

### ANALYTICAL PROCEDURE

Fibre identification was carried out in accordance with the documented 'in-house' methods based on the HSE Guidance Note HSG 248. These employed stereo microscopy, polarized microscopy and dispersion staining techniques.

B-54029/006	1210828 6FI	Dust sample to heaters	No	
B-54029/007	1210828 7FI	Dust sample to beams	No	
B-54029/008	1210828 8FI	Dust sample to heaters	No	
B-54029/009	1210828 9FI	Pipework	No	
B-54029/010	1210828 10FI	Pipework	No	
B-54029/011	1210828 11FI	Dust sample to heaters	No	

**NOTES:**

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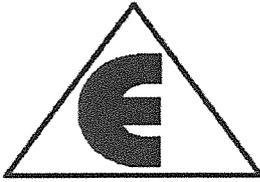


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### ANALYTICAL PROCEDURE

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B-54029/012	1210828 12FI	Dust sample to beams	No	
B-54029/013	1210828 13FI	Dust sample to beams	No	
B-54029/014	1210828 14FI	Dust sample to beams	No	
B-54029/015	1210828 15FI	Dust sample to heaters	No	
B-54029/016	1210828 16FI	Dust sample to heaters	No	
B-54029/017	1210828 17FI	Gaskets	No	

**NOTES:**

- 1-Sample(s) were examined for the presence of 6 types of asbestos fibre: crocidolite (blue), amosite (brown), chrysotile (white), anthophyllite, actinolite, and tremolite.
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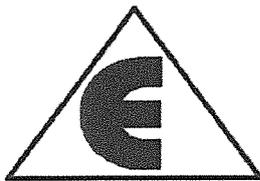
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**Date sampled/received:** 4 September 2012

**Date analysed:** 5 September 2012

**Analyst/s:** H. Naran

### ANALYTICAL PROCEDURE

Fibre identification was carried out in accordance with the documented 'in-house' methods based on the HSE Guidance Note HSG 248. These employed stereo microscopy, polarized microscopy and dispersion staining techniques.

B-54029/018	1210828 18FI	Pipework	No	
B-54029/019	1210828 19FI	Dust sample to beams	No	
B-54029/020	1210828 20FI	Walls/cladding	No	

#### NOTES:

- 1-Sample(s) were examined for the presence of 6 types of asbestos fibre: crocidolite (blue), amosite (brown), chrysotile (white), anthophyllite, actinolite, and tremolite.
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