



constructiveevaluation
Building & Material Test Consultants

Report and Register on Management Asbestos Survey

At

**The Explosion Museum
Priddy's Hard
Gosport
Hampshire**

For



Ref: 12.7352

January 2013

Constructive Evaluation Limited

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Surveyors : Ricky Young

1.1 Instruction

Constructive Evaluation Limited were instructed by Portsmouth Naval Base Property Trust to undertake a management asbestos survey in accordance with the HSE's HSG 264 to The Explosion museum and associated buildings located at Priddy's hard, Gosport.

The objective of the inspection was to locate and assess asbestos containing building elements in accordance with HSG 264 and the Control of Asbestos act 2012. To determine the condition of any asbestos containing materials: to prepare a register for future reference and to assist the building management policy.

We have not inspected areas of the property/structure which are covered, unexposed or inaccessible and we are, therefore, unable to report that any such part of the property/structure is free from asbestos.

1.2 Inspection

A survey has been carried out to Priddy's Hard for asbestos-containing materials (ACMs). The objectives of the survey were to:

- Locate and record the location, extent and product type of any presumed or known ACMs, as far as reasonably practical.
- Inspect and record information on the accessibility, condition and surface treatment of any presumed or known ACMs.
- Determine and record the asbestos type, either by collecting representative samples, or by making a presumption based on the product type and its appearance etc.
- To establish the relative ability of the various types of ACMs identified to release asbestos fibres into the air by carrying out a material assessment using a simple algorithm.

1.3 Format of report

The information is presented in the following format:

- Section 2 **General site and survey information**

This section contains general information concerning the method which was used to carry out the survey and the scope and extent of the works.

- Section 3 **Detailed survey report/register**

This Section contains comprehensive information concerning all the ACMs identified during the survey together with the material assessment score for each occurrence. It also contains information on areas that were not accessed.

The report should be consulted before any building or installation work is carried out in the building. All building users should be made aware of the contents of the report.

It should not be used for the purposes of costing asbestos removal work. No responsibility will be accepted should the information contained herein be used in this way.

Any person(s) using the report in this way **MUST** satisfy himself as to the extent of the asbestos within the designated areas and thereby ensure that their tender is sufficient in every respect to remove **ALL** the asbestos within these areas.

The bulk sample analysis record is enclosed as **Appendix II**.

1.4 Summary of Findings

The following is a summary of the areas surveyed and our findings:

Throughout the site

Asbestos textiles were located throughout the site in the form of flash guards to older style fuse, electrical distribution boxes and older style lampposts.

Asbestos bitumen products were located throughout the site in the form of bituminous board to electrical feed boxes.

Museum complex

Asbestos located to exhibits only.

Some exhibits are believed to contain **asbestos gaskets**.

Building 208, 209 (Admin building)

Asbestos containing materials were located in these buildings in the form of:

Asbestos lagging residue to some pipes where they pass through walls in 209.

Asbestos insulation board to the base of a door in 208.

Asbestos textile in the form of pipe sleeve remnants in 208.

Asbestos cement products in the form of asbestos cement panels to the underside of the roof in the roof void.

Flue remnants to the wall of the toilet area in 208.

External rainwater goods.

Asbestos reinforced composite in the form of vinyl tiles throughout the buildings.

Asbestos reinforced composite in the form of black toilet cisterns to the toilets in 208.

Building 213 (Conservation office)

Asbestos containing materials believed to be **asbestos insulation board** is located above the suspended ceiling in this building, however the area is not accessible for further investigation and records of the materials are not readily available.

Asbestos insulation board is believed to be present as an internal lining board to the fire resistant safe.

Building 214

Asbestos card in the form of a roll of gasket card.

Building 217, 216

Asbestos containing materials were located in these buildings in the form of:

Asbestos textiles to fuse box in 217.

Asbestos insulation board to wall in 216.

Asbestos cement products in the form of rainwater down pipe on the rear elevation.

Asbestos reinforced composite in the form of vinyl tiles floor covering.

Building 218, 311 and 308. (offices and conference centre)

The roof void over the office area was not accessed.

No asbestos containing materials were found in these buildings.

Building 223

No asbestos containing materials were located in this building.

Building 270

Asbestos cement products were located in the form of rain water goods to external elevations.

Asbestos bitumen products was located in the form of bituminous board to electrical feed box.

Building 309

No asbestos containing materials were located in this building.

Building 314

Asbestos reinforced composites were located in the form of vinyl floor tiles.

Building 316

Asbestos cement products were located in the form of rain water goods to external elevations.

Building 403b toilet area

Asbestos reinforced composites was found in the form of black toilet cistern.

Building 431

No asbestos containing materials were located in this building.

Building 438

No asbestos containing materials were located in this building.

All asbestos waste is subject to the waste management controls set out in the Hazardous Waste Regulations 2005. These Regulations require the waste to be consigned to a registered disposal site. The owner of the asbestos at the time of removal is obliged to ensure that this happens and that the transfer of ownership is recorded.

All types of asbestos can constitute a health hazard. The three significant and recognised forms in the UK are Chrysotile (white), Amosite (brown) and Crocidolite (blue).

The risk to health is not from the mere presence of asbestos-based products, nor contact with it, but by the dust and fibre which may be released if it is worked upon or damaged. As a rule the softer and more friable the material the greater the risk.

Asbestos fibre was used within many other products such as paint, textured coatings, bitumens, plastics, rubbers, resins, composite panels and lining papers. These products may not have been assessed.

Fixed proprietary equipment such as heat emitters, boilers, incinerators and the like may contain further asbestos-based insulating materials.

1.5 Material Assessment and Management Plan

The material assessment identifies the materials that will most readily release airborne fibres if disturbed. It does not automatically follow that those materials should be given priority for remedial action.

Management priority must be determined by carrying out a risk assessment that will take into account factors such as:

- The location of the material
- Its extent
- The use to which the location is put
- The occupancy of the area
- The activities carried on in the area
- The likelihood and frequency of maintenance activities in the area

The risk assessment can only be carried out with a detailed knowledge of the above and is the responsibility of the duty holder under the Control of the Asbestos at Work Regulations.

Constructive Evaluation Limited can provide assistance to develop a management plan on request.

2.0 GENERAL SITE AND SURVEY INFORMATION

2.1 Scope of Survey

The Priddy's Hard site comprises a large number of brick built buildings of differing types of construction.

The main complex is currently in use as a museum with the surrounding buildings used for storage, workshops and office accommodation.

This survey inspection report details all areas that were accessed and lists all known areas where access was not possible.

Any area not referred to directly in this report should be assumed ***not*** to have been inspected and further information sought before any work is permitted to take place within the area.

Within the areas inspected all reasonable efforts were made to identify accessible and visibly apparent suspect asbestos containing materials without causing damage to the structural elements of the building fabric. This does not imply a guarantee that all possible sources of asbestos fibres have been identified.

Area that were not accessible during the survey works include:

The roof void of over 218/311

The roof void above the suspended ceiling in building 213

Any stored items not associated with the fabric of the building.

Opening up and sampling were carried out only when it was safe and possible using the methods set out in this report. Certain general elements that are not normally accessed are listed in Section 2.3 of the report.

2.2 Survey Method

The survey was carried out in January 2013. The survey was a management survey and has been carried out in all accessible areas within the agreed scope.

There are two types of survey referred to in HSG264:

- Management survey (formally type 1 & 2 survey)

A survey to locate, so far as is reasonably practical, the presence of any ACMs within a building and assess their condition for management purposes. Any areas not accessed should be presumed to contain asbestos unless proved otherwise. Any materials which, in the surveyor's opinion, are likely to contain asbestos can be "strongly presumed" to contain asbestos.

- Refurbishment and Demolition survey (formally type 3 survey)

This type of survey is used to locate and describe as far as reasonably practical all ACMs within a building and may involve destructive surveying methods to gain access to all areas. This is intended to provide pre-demolition or refurbishment information to allow for all ACMs to be removed. The condition of the ACMs does not require assessment in this type of survey.

Constructive Evaluation's Surveyors are accredited to carry out these types of survey.

Accessible is defined as reasonably and safely reachable on foot, or reachable from a stepladder up to 3m, or by removing a cover or grating which is screwed in place, and without damaging fittings or decorations. Opening electrical equipment (e.g. switch boxes), plant (e.g. boilers, air handling units and ducted systems) and hazardous installations (e.g. chemical containers) are specifically excluded. Drains and voids within permanently fixed and structural panels and walls and inaccessible floor and ceiling voids (e.g. under carpets or above fixed tiles) were not accessed. Fixed floor and ceiling boards were not penetrated nor was heavy furniture moved. Lift shafts and similar areas containing moving machinery have not been inspected.

2.3 The following general areas are not inspected:

- Voids in floors and walls
- Window gaskets, glazing tapes and mastics
- Items not associated with the fabric of the building such as plant and equipment

Our surveyors have indicated inaccessible areas and elements found during the survey. It should be noted that even when there is no asbestos found in any particular area this is not a *guarantee* that this location does not have asbestos present. Due caution must always be taken when dealing with building materials and any suspected materials must be reported and left undisturbed until further investigation proves it is safe to proceed.

There is the possibility for additional ACM to be present behind those identified which may only be discovered during subsequent asbestos removal work.

2.5 Bulk Sampling and Identification

Samples were obtained employing the use of fibre suppressant techniques in order to minimise respirable fibre release during sampling. Bulk samples were taken, labelled, double-bagged, and analysed using plane and polarised light microscopy and dispersion staining techniques as outlined in accordance with the HSE's HSG 248 *Asbestos in bulk materials*.

To minimise risk, not all ACMs were sampled. Some were strongly presumed or presumed to contain asbestos.

"Strongly presumed" is where the surveyor has good cause to suspect asbestos but a laboratory identification has not been undertaken to confirm this. Examples of this include the situation where there is similar material present throughout a building that has been sampled and confirmed to be asbestos in some places but not all. Where it has not been sampled but **"visually identified"** there will be a **"strong presumption"** that similar materials contain asbestos.

"Presumed" asbestos is where there is insufficient evidence to suggest a material does not contain asbestos. For example, where a sample has not or cannot be taken

and there is no reasoned argument to suggest that the material does not contain asbestos.

2.6 Material Assessment Algorithm

The material assessment is based on the likelihood of asbestos fibres being released into the breathing zone of persons at risk. Each of the parameters given below are assessed during the material assessment.

Product type or debris from product	1 (Low) 2 (Medium) 3 (High)	Composites (plastics, resins, mastics, roofing felts, vinyl floor tiles, paints, decorative finishes, cement etc AIB, textiles, gaskets, ropes, paper etc Lagging, spray coatings, loose asbestos etc	Access (Accessibility)	1 (Low) 2 (Medium) 3 (High)	Unlikely to be accessed during normal occupation or maintenance activities Accessible during maintenance activity only Accessible under normal conditions
Damage	0 (None) 1 (Low) 2 (Medium) 3 (High)	No visible damage Few scratches / marks, broken edges etc Significant breakage of non-friable materials or several small areas of damage to friable material High damage / visible debris	ID (Identification)	P SP A	Presumed Strongly presumed Analysed
Surface Treatment	0 (None) 1 (Low) 2 (Medium) 3 (High)	Non-friable composite asbestos / encapsulated cement Enclosed sprays / lagging / board / or bare cement Bare AIB or encapsulated lagging / spray Unsealed lagging / spray	Rmd (Recommendation)	E R MM None / Other	Encapsulate Remove Mark and manage No recommendations required, Other recommendations made (specify)
Asbestos Type	0 1 2 3	No asbestos present Chrysotile Other Crocidolite			

The total score is calculated from the parameters above and the potential for releasing fibres assigned as detailed below.

Material Assessment Score	Risk of Fibre Release
10 or higher	High
7-9	Medium
5-6	Low
4 or lower	Very low

The material assessment score has been calculated for each ACM identified and the degree of risk is included in Section 3 of this report.

DETAILED REPORT AND MATERIAL REGISTER

Location: The Explosion Museum, Priddy's Hard

Date: January 2013

Surveyor: Rick Young

Ref	Building	Int/ Ext.	Sample Ref. or Vis ID	Photo Ref.	Description / Comments	Prod Type 1, 2 or 3	Damage 0, 1, 2 or 3	Surface Treat 0, 1, 2 or 3	Asbestos Type 0, 1, 2 or 3	Total Points	Access Low 1 Med 2 High 3	ID P SP A	Rmd E R MM None Other	Risk
A	Through out site	Int Ext	Vis ID	114	Flash guards to fuse & junction boxes	2	0	1	1	4	3	SP	MM	V Low
B	Through out site	Int Ext	Vis ID	174 175	Flash guards to older style lamp posts	2	0	1	1	4	3	SP	MM	V Low
C	Through out site	Int Ext	Vis ID	176 177	Bituminous board to junction boxes	1	0	0	1	2	2	SP	MM	V Low
1	Rear of building 217	Ext	Vis ID	4,5	Rain water down pipe	1	1	1	1	4	2	SP	MM	V Low
2	403b Toilet area	Int	2	6,7	Gasket card	2	0	1	2	5	3	A	MM	Low
3	403b Toilet area	Int	Vis ID	10,11	Black toilet cistern	1	0	0	2	3	3	SP	MM	V Low

Material Assessment Score

Risk of Fibre Release

10+
7-9
5-6
<4

High
Medium
Low
Very Low

DETAILED REPORT AND MATERIAL REGISTER

Location: The Explosion Museum, Priddy's Hard

Date: January 2013

Surveyor: Rick Young

Ref	Building	Int/ Ext.	Sample Ref. or Vis ID	Photo Ref.	Description / Comments	Prod Type 1, 2 or 3	Damage 0, 1, 2 or 3	Surface Treat 0, 1, 2 or 3	Asbestos Type 0, 1, 2 or 3	Total Points	Access Low 1 Med 2 High 3	ID P SP A	Rmd E R MM None Other	Risk
6	Conservat -ion office 212	Int	Vis ID	14,15, 16	ACM located above ceiling partition	2	0	1	2	5	2	SP	MM	Low
7	Conservat -ion office 212	Int	Vis ID	19,20	Fire resistant safe	2	0	1	2	5	1	SP	MM	Low
8	Building 416	Int	Vis ID	21,22	Flash guards to fuse box	1	0	0	1	2	2	SP	MM	V Low
40	Building 217	Int	40	105	Vinyl tile floor covering	1	1	0	1	3	3	A	MM	V Low
42	Building 217	Int	Vis ID	107, 108	Internal panel to partition wall	2	1	2	2	7	3	SP	MM	Med
43	Admin 208	Int	Vis ID	80,81	Flue remnants to wall in toilet area	1	1	1	1	1	3	SP	MM	V Low

Material Assessment Score

Risk of Fibre Release

10+

High

7-9

Medium

5-6

Low

<4

Very Low

DETAILED REPORT AND MATERIAL REGISTER

Location: The Explosion Museum, Priddy's Hard

Date: January 2013

Surveyor: Rick Young

Ref	Building	Int/ Ext.	Sample Ref. or Vis ID	Photo Ref.	Description / Comments	Prod Type 1, 2 or 3	Damage 0, 1, 2 or 3	Surface Treat 0, 1, 2 or 3	Asbestos Type 0, 1, 2 or 3	Total Points	Access Low 1 Med 2 High 3	ID P SP A	Rmd E R MM None Other	Risk
44	Admin 218 toilet	Int	44	82,83	Blue vinyl tile flooring in toilet area	1	1	0	1	3	3	A	MM	V Low
45	Admin 218 toilet	Int	45	84	Adhesive to grey vinyl tile flooring in toilet area	1	1	0	1	3	3	A	MM	V Low
46	Admin 218 corridor	Int	46	85,86	Textile remnants to pipe work	2	1	2	1	6	2	A	MM	Low
48	Admin 208 G/F	Int	48	89,90	Heat pad to bottom of door	2	1	1	2	6	3	A	MM	Low
50	Admin 208 toilet	Int	Vis ID	93	Black toilet cistern	1	0	0	2	3	3	SP	MM	V Low
51	Admin 208 toilets	Int	Vis ID	94	Adhesive to grey vinyl tile flooring in toilet area	1	1	0	1	3	3	SP	MM	V Low

Material Assessment Score

Risk of Fibre Release

10+

7-9

5-6

<4

High

Medium

Low

Very Low

DETAILED REPORT AND MATERIAL REGISTER

Location: The Explosion Museum, Priddy's Hard

Date: January 2013

Surveyor: Rick Young

Ref	Building	Int/ Ext.	Sample Ref. or Vis ID	Photo Ref.	Description / Comments	Prod Type 1, 2 or 3	Damage 0, 1, 2 or 3	Surface Treat 0, 1, 2 or 3	Asbestos Type 0, 1, 2 or 3	Total Points	Access Low 1 Med 2 High 3	ID P SP A	Rmd E R MM None Other	Risk
52	Admin 208 Roof void	Int	Vis ID	95,96	Panels to underside of roof	1	0	1	1	3	3	SP	MM	V Low
53	Through out Admin 208	Int	53	98,99, 100	Lagging residue to pipes passing through walls	3	3	3	2	11	3	A	E R	High
54	Building 208,318	Ext	Vis ID	101	Rainwater goods	1	0	1	1	3	3	SP	MM	V Low
55	Museum	Int	Vis ID	109 110 111	Gaskets to exhibits	2	0	0	1	3	2	SP	MM	V Low
56	Building 314	Int	Vis ID	174 175	Vinyl tile floor covering	1	1	0	1	3	3	A	MM	V Low

Material Assessment Score Risk of Fibre Release

10+ High
7-9 Medium
5-6 Low
<4 Very Low

2.7 Risk Assessment and Management Plan

The material assessment identifies the materials that will most readily release airborne fibres if disturbed. It does not automatically follow that those materials should be given priority for remedial action. Management priority must be determined by carrying out a risk assessment that will take into account factors such as:-

- The location of the material
- Its extent
- The use to which the location is put
- The occupancy of the area
- The activities carried on in the area
- The likelihood and frequency of maintenance activities in the area

A management plan should be developed based on this risk assessment.

The management plan may include the following:

- Clean up debris
- Repair
- Encapsulate
- Enclose
- Remove
- Maintain and update log of ACMs
- Monitor condition
- Restrict access
- Label or colour code
- Inform
- Train
- Define safe systems of work
- Operate a permit to work system

To manage the risk effectively you will need to:

- Keep and maintain an up to date record of the location, condition, maintenance and removal of all asbestos materials on your premises
- Repair, seal or remove if there is a risk of exposure
- Maintain in a good state of repair and regularly monitor the condition
- Inform anyone likely to disturb asbestos of its location and condition
- Have arrangements in place so that work which disturbs asbestos complies with the Control of Asbestos at Work Regulations (CAWR)
- Review the plan at regular intervals and update if circumstances change

Generally, work with asbestos insulation, insulating board and spray coating **must not** be carried out without a licence from the HSE although there are exceptions for very minor works – more information is available in “A Guide to Asbestos (Licensing) Regulations 1983” as

As a general guideline, work on these materials should be carried out inside full enclosures incorporating negative pressure and decontamination facilities although minor works may be carried out in accordance with the "Asbestos Essentials Task Manual" (HSG210).

The removal of asbestos insulation, insulating board and spray coating is subject to a statutory 14 day notification to the Health and Safety Executive (HSE). The notification period is a condition of the removal contractor's licence. Note also there may be additional restrictions placed on a licence at the discretion of the HSE.

Following the introduction of the Hazardous Waste Regulations 2005, all materials with an asbestos content greater than 0.1% by weight - including asbestos cement where applicable - is now classified as a Special Waste and must be disposed of at a site licensed to accept such waste. An appropriate consignment note is also required.

Although not a legal requirement, it is recommended that a licensed asbestos contractor is engaged for any work with asbestos - including asbestos cement products – to ensure full compliance with all current legislation.



.....

Rick Young

Building Surveyor

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APPENDIX I

PHOTOGRAPHIC RECORD



Photo 4



Photo 5

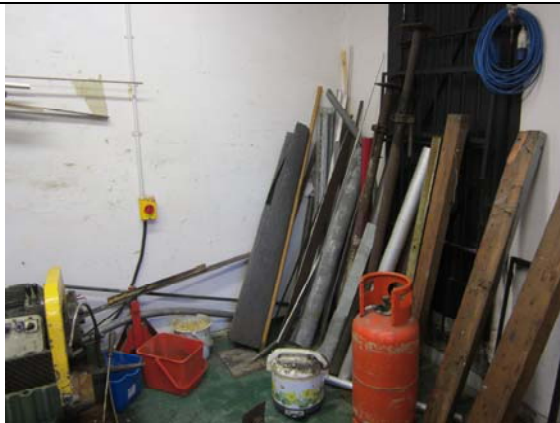


Photo 6



Photo 7



Photo 10



Photo 11



Photo 12



Photo 13



Photo 14



Photo 15

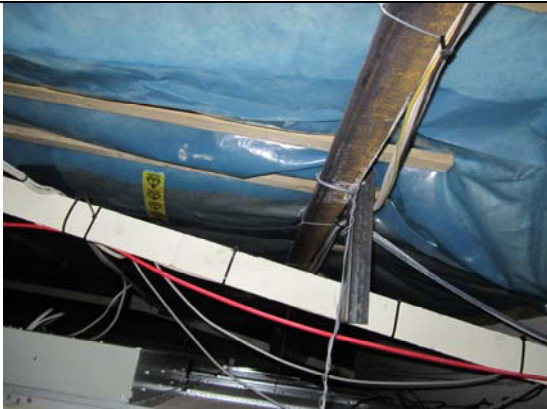


Photo 16



Photo 17



Photo 18



Photo 19



Photo 20



Photo 21

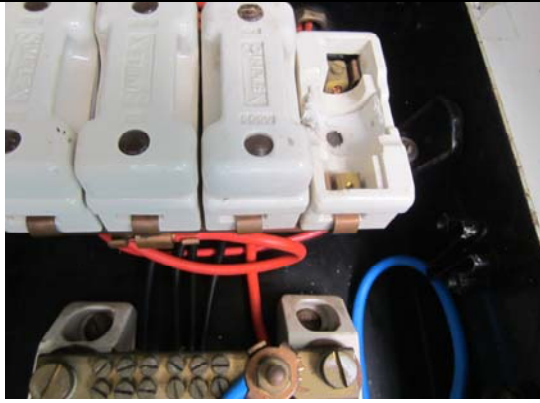


Photo 22



Photo 80



Photo 81



Photo 82



Photo 83



Photo 84



Photo 85



Photo 86



Photo 87



Photo 88



Photo 89



Photo 90



Photo 91



Photo 92



Photo 93



Photo 94



Photo 95



Photo 96



Photo 98



Photo 99



Photo 100



Photo 101



Photo 103



Photo 104



Photo 105



Photo 107



Photo 108



Photo 109



Photo 110



Photo 111



Photo 112



Photo 113



Photo 114



Photo 174



Photo 175



Photo 176



Photo 177

APPENDIX II
TEST RESULT SHEETS

TEST RESULT SHEET (Bulk Samples)

Contract : Explosive Museum (Priddy's Hard)

Job No. : 12.7352

Client : Portsmouth Naval Base Property Trust

Page : 1 of 6

Ref	Int/ Ext	Zone/ Building	Description	Photo	Asbestos	Type	Quantity Extent	Comment
1	Ext	Rear of building 217	Rainwater down pipe	4,5	Asbestos Cement	Chrysotile	1no, 3m	NS/SP
2	Int	Building 214	Gasket card	6,7	Asbestos Card	Chrysotile	2m ²	In workshop area
3	Int	403b Toilet area	Toilet cistern	10,11	Asbestos reinforced Composite	Amosite	1no	NS/SP
4	Int	Building 305b	Pad to underside of sink	12,13	N.A.D.I.S	N.A.D.I.S		No Asbestos Detected in Sample
5	Int	Building 212	Pad to underside of sink	17,18	N.A.D.I.S	N.A.D.I.S		Reference sample 4

NADIS : No asbestos detected in sample

AIB : Asbestos insulating board

AC : Asbestos cement

Analysis of samples was undertaken in accord with HSE Method HSG 248.

Type identification is to UKAS accreditation.

Opinions, interpretations and qualification is provided in good faith.

TEST RESULT SHEET (Bulk Samples)

Contract : Explosive Museum (Priddy's Hard)

Job No. : 12.7352

Client : Portsmouth Naval Base Property Trust

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Ref	Int/ Ext	Zone/ Building	Description	Photo	Asbestos	Type	Quantity Extent	Comment
6	Int	Conservation Office 212	Asbestos located above ceiling partition	14,15, 16	Asbestos Insulation Board	Amosite/ Chrysotile	30m ²	Type and quantity assumed, area not accessible
7	Int	Conservation Office 212	Fire resistant safe	19,20	Asbestos Insulation Board	Amosite/ Chrysotile	1no	Strongly presumed to contain asbestos containing materials
8	Int	Building 416	Flashguards to fuse box	21,22	Asbestos Paper	Chrysotile	4no	NS/SP Located throughout site
39	Int	Building 309	Coating to underside if corrugated roof	103, 104	N.A.D.I.S	N.A.D.I.S		Coating delaminating
40	Int	Building 217	Vinyl floor tile and adhesive	105	Asbestos Reinforced Composite	Chrysotile	10m ²	Some damaged tiles

NADIS : No asbestos detected in sample

AIB : Asbestos insulating board

AC : Asbestos cement

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TEST RESULT SHEET (Bulk Samples)

Contract : Explosive Museum (Priddy's Hard)

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Page : 3 of 6

Ref	Int/ Ext	Zone/ Building	Description	Photo	Asbestos	Type	Quantity Extent	Comment
42	Int	Building 216	Internal panel to partition wall	107, 108	Asbestos Insulation Board	Amosite/ Chrysotile	1.5m ²	NS/SP
43	Int	Admin 208, G/F Toilet area	Flue remnants to wall	80,81	Asbestos Cement	Chrysotile		NS/SP
44	Int	Admin 208, G/F Toilet area	Blue vinyl floor tile and adhesive	82,83	Asbestos Reinforced Composite	Chrysotile	30m ²	
45	Int	Admin 208, G/F Toilet area	Grey vinyl floor tile and adhesive	84	Asbestos Reinforced Composite	Chrysotile	10m ²	Chrysotile to bitumen adhesive only

NADIS : No asbestos detected in sample

AIB : Asbestos insulating board

AC : Asbestos cement

*Analysis of samples was undertaken in accord with HSE Method HSG 248.
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TEST RESULT SHEET (Bulk Samples)

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Ref	Int/ Ext	Zone/ Building	Description	Photo	Asbestos	Type	Quantity Extent	Comment
46	Int	Admin 208, G/F, Corridor	Textile insulation remnants	85,86	Asbestos Textile	Chrysotile		Remnants to pipe at high level
47	Int	Admin 208, G/F, Throughout	Lino floor covering	87,88	N.A.D.I.S	N.A.D.I.S		
48	Int	Admin 208, G/F, Room behind stairs	Heat pad to bottom of door	89,90	Asbestos Insulation Board	Chrysotile	0.25m ²	Behind metal cladding
49	Int	Admin 208 G/F	Paper lining to pegboard	91,92	N.A.D.I.S	N.A.D.I.S		Reference sample 36
50	Int	Admin 208 G/F toilets	Toilet cisterns	93	Asbestos Reinforced Composite	Amosite		NS/SP

NADIS : No asbestos detected in sample

AIB : Asbestos insulating board

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Page : 5 of 6

Ref	Int/ Ext	Zone/ Building	Description	Photo	Asbestos	Type	Quantity Extent	Comment
51	Int	Admin 208 G/F toilets	Grey vinyl floor tile and adhesive	94	Asbestos Reinforced Composite	Chrysotile	10m ²	Chrysotile to bitumen adhesive only
52	Int	Admin 208 Roof void	Panels to underside of roof	95,96	Asbestos Cement	Chrysotile	2m ² x 2	At two locations NS/SP
53	Int	Throughout Admin 208	Lagging residue to pipes passing through walls	98,99 100	Asbestos Lagging	Amosite		May be present throughout Admin block. Verbal advisory notice given.
54	Ext	Building 208,318	Rainwater goods	101	Asbestos Cement	Chrysotile		NS/SP
55	Int	Museum displays	Display items containing asbestos	109 110 111	Assume Asbestos Textile	Chrysotile	At 2 Locations	Not accessible to sample NS/SP

NADIS : No asbestos detected in sample

AIB : Asbestos insulating board

AC : Asbestos cement

Analysis of samples was undertaken in accord with HSE Method HSG 248.

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TEST RESULT SHEET (Bulk Samples)

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Page : 6 of 6

Ref	Int/ Ext	Zone/ Building	Description	Photo	Asbestos	Type	Quantity Extent	Comment
56	Int	Building 314	Vinyl floor tile and adhesive	112 113	Asbestos Reinforced Composite	Chrysotile	20m ²	Some damaged tiles
A	Ext	Through out site	Flash guards to fuse and junction boxes	114	Asbestos Textile	Chrysotile		Fuse and junction boxes located through out site
B	Ext	Through out site	Flash guards to lamp post fuses	174 175	Asbestos Textile	Chrysotile		To older lamp posts through out site.
C	Ext	Through out site	Bituminous board to junction boxes	176 177	Asbestos Reinforced Compound	Chrysotile		

NADIS : No asbestos detected in sample

AIB : Asbestos insulating board

AC : Asbestos cement

Analysis of samples was undertaken in accord with HSE Method HSG 248.

Type identification is to UKAS accreditation.

Opinions, interpretations and qualification is provided in good faith.

APPENDIX III

LABORATORY RESULT SHEETS



CERTIFICATE FOR IDENTIFICATION OF ASBESTOS FIBRES

STANDARD
PREMIUM
EMERGENCY

Client:

CONSTRUCTIVE EVALUATION

Address:

UNIT 5, VINNETROW BUSINESS PARK
RUNCTON
CHICHESTER
WEST SUSSEX
PO20 1QH

Attention:

BARBARA RODWAY
EXPLOSIVE MUSEUM
GOSPORT

Site Address:

Date sample taken:

20/12/12

Date sample received:

21/12/12

Date of Analysis:

21/12/12

Analysis Report No.

SCO/12/38375

Report Date:

21/12/12

Site Ref No.

12.7390

Page No:

1 Of 4

No. of Samples:

35

Obtained:

DELIVERED


Samples of material, referenced below, have been examined to determine the presence of asbestos fibres, using Scopes Asbestos Analysis "in house" method of transmitted/polarised light microscopy and centre stop dispersion staining, based on HSE's HSG248. If samples have been DELIVERED the site address and actual sample location is as given by the client at the time of delivery. Scopes Asbestos Analysis Services Limited are not responsible for the accuracy or competence of the sampling by third parties. Under these circumstances Scopes Asbestos Analysis Services Limited cannot be held responsible for the interpretation of the results shown.

SCOPE SAMPLE	CLIENT SAMPLE No.	Sample Location	Fibre Type Detected
1	2	ROOM 2 GASKET	CHRYSTILE
2	4	ROOM 305 B SINK PAD	NADIS
3	9	ROOM 413 WALL BOARD	CROCIDOLITE/CHRYSTILE
4	10	ROOM 413 SINK PAD	NADIS
5	11	ROOM 413 WALL BOARD	CHRYSTILE
6	16	BUILDING 411 - BOARD TO CEILING	CHRYSTILE
7	18	BUILDING 406 TEXTILE COVERING TO PIPE	CHRYSTILE
8	19	BUILDING 406 - TEXTILE DEBRIS TO FLOOR	CHRYSTILE
9	21	BUILDING 406 - CARD GASKET TO PIPEWORK	CHRYSTILE
10	22	BUILDING 406 - FLOOR COVERING	NADIS

KEY: NADIS - No Asbestos Detected in Sample

Note: All samples will be retained for a minimum of six months.

Note: This Certificate for Identification of Asbestos Fibres shall not be reproduced except in full without the written approval of the Laboratory.

Analysed by:	W.JEFFERIES	Authorised signatory:	
		Print name:	S BOLTON- Q.C.M

BULK 001-VER 5 12-AUGUST-09-QCM

CERTIFICATE FOR IDENTIFICATION OF ASBESTOS FIBRES

STANDARD	<input type="checkbox"/>
PREMIUM	<input type="checkbox"/>
EMERGENCY	<input type="checkbox"/>

Client:	CONSTRUCTIVE EVALUATION		
Address:	UNIT 5, VINNETROW BUSINESS PARK RUNCTON CHICHESTER WEST SUSSEX PO20 1QH		
Attention:	BARBARA RODWAY		
Site Address:	EXPLOSIVE MUSEUM GOSPORT		
Date sample taken:	20/12/12		
Date sample received:	21/12/12		
Date of Analysis:	21/12/12		
Analysis Report No.	SCO/12/38375		
Report Date:	21/12/12		
Site Ref No.	12.7390		
Page No:	2	Of	4
No. of Samples:	35		
Obtained:	DELIVERED		

Samples of material, referenced below, have been examined to determine the presence of asbestos fibres, using Scopes Asbestos Analysis "in house" method of transmitted/polarised light microscopy and centre stop dispersion staining, based on HSE's HSG248.
If samples have been DELIVERED the site address and actual sample location is as given by the client at the time of delivery. Scopes Asbestos Analysis Services Limited are not responsible for the accuracy or competence of the sampling by third parties. Under these circumstances Scopes Asbestos Analysis Services Limited cannot be held responsible for the interpretation of the results shown.

SCOPE SAMPLE	CLIENT SAMPLE No.	Sample Location	Fibre Type Detected
11	32	BUILDING 204 – LINO FLOOR COVERING	NADIS
12	33	BUILDING 204 – SINK PAD	CHRYOTILE
13	34	BUILDING 204 – LINING BOARD TO CEILING	CHRYOTILE
14	35	BUILDING 204 – LINO FLOOR COVERING	NADIS
15	36	BUILDING 204 – PEG BOARD	NADIS
16	38	BUILDING 204 VINYL FLOOR TILE & ADHESIVE	CHRYOTILE
17	39	BUILDING 309 PAINT TO TIN ROOF	NADIS
18	40	BUILDING 806 VINYL FLOOR TILE & ADHESIVE	CHRYOTILE
19	44	BUILDING 208 BLUE VINYL FLOOR TILE & BITUMEN	CHRYOTILE
20	45	BUILDING 208 – GREY VINYL FLOOR TILE & ADHESIVE	CHRYOTILE TO BITUMEN BACKING

KEY: NADIS - No Asbestos Detected in Sample

Note: All samples will be retained for a minimum of six months.

Note: This Certificate for Identification of Asbestos Fibres shall not be reproduced except in full without the written approval of the Laboratory.

Analysed by:	J.BARNETT	Authorised signatory:	
		Print name:	S BOLTON- Q.C.M
BULK 001-VER 5 12-AUGUST-09-QCM			



CERTIFICATE FOR IDENTIFICATION OF ASBESTOS FIBRES

STANDARD
PREMIUM
EMERGENCY

Client:	CONSTRUCTIVE EVALUATION	Analysis Report No.	SCO/12/38375		
Address:	UNIT 5, VINNETROW BUSINESS PARK RUNCTON CHICHESTER WEST SUSSEX PO20 1QH				
Attention:	BARBARA RODWAY				
Site Address:	EXPLOSIVE MUSEUM GOSPORT				
Date sample taken:	20/12/12				
Date sample received:	21/12/12	Report Date:	21/12/12		
Date of Analysis:	21/12/12	Site Ref No.	12.7390		
		Page No:	3	Of	4
		No. of Samples:	35		
		Obtained:	DELIVERED		

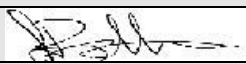
Samples of material, referenced below, have been examined to determine the presence of asbestos fibres, using Scopes Asbestos Analysis "in house" method of transmitted/polarised light microscopy and centre stop dispersion staining, based on HSE's HSG248.
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SCOPE SAMPLE	CLIENT SAMPLE No.	Sample Location	Fibre Type Detected
21	46	BUILDING 208 TEXTILE DEBRIS	CHRYSTILE
22	47	BUILDING 208 LINO FLOOR COVERING	NADIS
23	48	BUILDING 208 – HEAT PAD TO DOOR	CHRYSTILE
24	53	BUILDING 208 – LAGGING TO RESIDUE TO PIPES	AMOSITE
25	56	BUILDING 314 VINYL TILE AND ADHESIVE	CHRYSTILE
26	58	RAMPART AREA – CARD GASKET TO PIPE	CHRYSTILE
27	59	RAMPART AREA – LAGGING RESIDUE TO PIPE	AMOSITE
28	60	RAMPART AREA – LAGGING DEBRIS	AMOSITE
29	61	RAMPART TEXTILE COVERING TO LAGGING	CHRYSTILE
30	62	RAMPART – LAGGING TO PIPEWORK	CROCIDOLITE/CHRYSTILE/AMOSITE

KEY: NADIS - No Asbestos Detected in Sample

Note: All samples will be retained for a minimum of six months.

Note: This Certificate for Identification of Asbestos Fibres shall not be reproduced except in full without the written approval of the Laboratory.

Analysed by:	M.ZHOU	Authorised signatory:	
		Print name:	S BOLTON- Q.C.M

BULK 001-VER 5 12-AUGUST-09-QCM



CERTIFICATE FOR IDENTIFICATION OF ASBESTOS FIBRES

STANDARD
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Page No:

4 Of 4

No. of Samples:

35

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DELIVERED

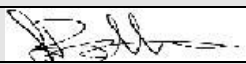
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SCOPE SAMPLE	CLIENT SAMPLE No.	Sample Location	Fibre Type Detected
31	68	RAMPART AREA – CARD LINING TO WALL	CHRYSTILE
32	69	RAMPART LAGGING TO PIPEWORK	CHRYSTILE
33	71	RAMPART AREA – CARD DEBRIS	CHRYSTILE
34	72	RAMPART AREA – VINYL TILE AND ADHESIVE TO FLOOR	CHRYSTILE
35	79	BUILDING 270 – BITUMINOUS BOARD	CHRYSTILE

KEY: NADIS - No Asbestos Detected in Sample

Note: All samples will be retained for a minimum of six months.

Note: This Certificate for Identification of Asbestos Fibres shall not be reproduced except in full without the written approval of the Laboratory.

Analysed by:	N. TRAYNOR	Authorised signatory:	
		Print name:	S BOLTON- Q.C.M

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