

| Location<br>Item Description<br>Comments                                                        | Sample No.                        | Sample<br>Status      | Photo<br>No. | Extent            | Condition | Friability     | Disturb.<br>Potential | Risk<br>Status | Re-<br>Inspect<br>Date | Control<br>Priority | Control Recommendation                                                                                                                                                |
|-------------------------------------------------------------------------------------------------|-----------------------------------|-----------------------|--------------|-------------------|-----------|----------------|-----------------------|----------------|------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Offices Throughout – Floor<br>Green vinyl floor sheeting                                        | Same As<br>49154-04               | Assumed<br>Negative   | -            | -                 | -         | -              | -                     | -              | -                      | -                   | -                                                                                                                                                                     |
| Office<br>Electrical backing board<br>*Not sampled due to live electricity                      | -                                 | Suspected<br>Positive | -            | <1m <sup>2</sup>  | Good      | Non<br>Friable | Low                   | Low            | 2007                   | 3                   | Confirm status when de-<br>energised. Label and maintain<br>in good condition. Remove<br>under controlled conditions<br>prior to<br>refurbishment/demolition works    |
| <b>Gate House No. 5</b>                                                                         |                                   |                       |              |                   |           |                |                       |                |                        |                     |                                                                                                                                                                       |
| External stone clad panels<br>Fibre cement sheeting                                             | NAA Ref<br>Same As<br>S5991/02/12 | Assumed<br>Positive   | -            | ~10m <sup>2</sup> | Good      | Non<br>Friable | Low                   | Low            | 2007                   | 3                   | Label and maintain in good<br>condition. Remove under<br>controlled conditions prior to<br>refurbishment/demolition works                                             |
| Internal Offices Throughout – Walls &<br>ceiling<br>Fibre cement sheeting<br>Some areas damaged | NAA Ref<br>Same As<br>S5991/02/13 | Assumed<br>Positive   | -            | ~40m <sup>2</sup> | Fair      | Non<br>Friable | Medium                | Medium         | 2007                   | 2                   | Remove/repair damaged<br>sections, seal, label and<br>maintain in good condition.<br>Remove under controlled<br>conditions prior to<br>refurbishment/demolition works |
| Offices Throughout – Floor<br>Green vinyl floor sheeting                                        | Same As<br>49154-04               | Assumed<br>Negative   | -            | -                 | -         | -              | -                     | -              | -                      | -                   | -                                                                                                                                                                     |
| Office<br>Electrical backing board<br>*Not sampled due to live electricity                      | -                                 | Suspected<br>Positive | -            | <1m <sup>2</sup>  | Good      | Non<br>Friable | Low                   | Low            | 2007                   | 3                   | Confirm status when de-<br>energised. Label and maintain<br>in good condition. Remove<br>under controlled conditions<br>prior to<br>refurbishment/demolition works    |
| Amenities – Walls & ceiling<br>Fibre cement sheeting<br>Some areas damaged                      | NAA Ref<br>Same As<br>S5991/02/12 | Assumed<br>Positive   | -            | ~40m <sup>2</sup> | Fair      | Non<br>Friable | Medium                | Medium         | 2007                   | 2                   | Remove/repair damaged<br>sections, seal, label and<br>maintain in good condition.<br>Remove under controlled<br>conditions prior to<br>refurbishment/demolition works |

## Hazardous Materials Register

35 Hickson Rd, Darling Harbour NSW

### Polychlorinated Biphenyls (PCBs)

Date: 1st June 2006

Assessed by: Claudia Heidemann

| Location<br>Item Description                                                                       | Photo No. | Specifications                         | No. Fittings | Comments/Control Recommendation                                                              |
|----------------------------------------------------------------------------------------------------|-----------|----------------------------------------|--------------|----------------------------------------------------------------------------------------------|
| <b>No. 5 Transit Shed</b>                                                                          |           |                                        |              |                                                                                              |
| Ground Level and Level 1 - Throughout<br>Double tubed fluorescent light fittings                   | 14        | Not inspected due to no safe<br>access | >100         | PCB-containing capacitors <b>unlikely</b> due to old style<br>appearance of light fittings   |
| Ground Level - High Voltage Switch Room<br>Double and single tubed fluorescent light<br>fittings   | -         | Not inspected due to no safe<br>access | ~10          | PCB-containing capacitors <b>unlikely</b> due to old style<br>appearance of light fittings   |
| <b>No. 5 Transit Shed; Administration Building - North-western side</b>                            |           |                                        |              |                                                                                              |
| Ground Level - High Voltage Switch Room<br>Single tubed fluorescent light fittings                 | -         | Not inspected due to no safe<br>access | 4            | PCB-containing capacitors <b>unlikely</b> due to old style<br>appearance of light fittings   |
| Ground level - P & O Managers Office<br>Double tubed fluorescent light fittings                    | 15        | Not inspected due to no safe<br>access | 6            | PCB-containing capacitors <b>unlikely</b> due to old style<br>appearance of light fittings   |
| Ground level - Quarantine Throughout<br>Single tubed fluorescent light fittings                    | -         | Not inspected due to no safe<br>access | ~10          | PCB-containing capacitors <b>unlikely</b> due to old style<br>appearance of light fittings   |
| Level 1 - Dining Area<br>Double tubed fluorescent light fittings                                   | 16        | Not inspected due to no safe<br>access | ~30          | PCB-containing capacitors <b>unlikely</b> due to old style<br>appearance of light fittings   |
| Level 1 - Change Room<br>Double tubed fluorescent light fittings                                   | 17        | Not inspected due to no safe<br>access | >100         | PCB-containing capacitors <b>unlikely</b> due to old style<br>appearance of light fittings   |
| <b>No. 3 Transit Shed</b>                                                                          |           |                                        |              |                                                                                              |
| Ground Level - Ladies Bathroom<br>Single tubed fluorescent light fittings                          | 18        | Not inspected due to no safe<br>access | 3            | PCB-containing capacitors <b>unlikely</b> due to old style<br>appearance of light fittings   |
| Ground Level - Storage Room adjacent<br>Ladies Bathroom<br>Double tubed fluorescent light fittings | -         | Not inspected due to no safe<br>access | 2            | PCB-containing capacitors <b>unlikely</b> due to newer<br>style appearance of light fittings |



| Location<br>Item Description                                                             | Photo No. | Specifications                         | No. Findings | Comments/Control Recommendation                                                          |
|------------------------------------------------------------------------------------------|-----------|----------------------------------------|--------------|------------------------------------------------------------------------------------------|
| Ground Level - Customs Office<br>Double & single tubed fluorescent light<br>fixtures     | 19        | Not inspected due to no safe<br>access | 6            | PCB-containing capacitors <b>likely</b> due to old style<br>appearance of light fixtures |
| <b>Gate No. 3</b>                                                                        |           |                                        |              |                                                                                          |
| Offices and External - Throughout<br>Double tubed fluorescent light fixtures             | -         | Not inspected due to no safe<br>access | ~40          | PCB-containing capacitors <b>likely</b> due to old style<br>appearance of light fixtures |
| <b>Gate No. 4</b>                                                                        |           |                                        |              |                                                                                          |
| Offices and External - Throughout<br>Single tubed fluorescent light fixtures             | -         | Not inspected due to no safe<br>access | ~8           | PCB-containing capacitors <b>likely</b> due to old style<br>appearance of light fixtures |
| <b>Gate No. 5</b>                                                                        |           |                                        |              |                                                                                          |
| Offices and External - Throughout<br>Single & Double tubed fluorescent light<br>fixtures | -         | Not inspected due to no safe<br>access | ~20          | PCB-containing capacitors <b>likely</b> due to old style<br>appearance of light fixtures |

## Hazardous Materials Register

35 Hickson Rd, Darling Harbour NSW

### Lead-containing Paint

Date: 1st June 2006

Assessed by: Claudia Heidemann

| Location<br>Colour Description, Comments                                                           | Photo No. | Lead Swab<br>Results             | Extent            | Condition | Control Recommendation                                                                        |
|----------------------------------------------------------------------------------------------------|-----------|----------------------------------|-------------------|-----------|-----------------------------------------------------------------------------------------------|
| <b>No. 5 Transit Shed</b>                                                                          |           |                                  |                   |           |                                                                                               |
| High Voltage Switch Room and Water Meter Room<br>Door Frames – White paint system                  | 20        | Positive                         | ~1 m <sup>2</sup> | Poor      | Remove flaking paint under controlled conditions and over paint with a lead-free paint.       |
| <b>Administration Block</b>                                                                        |           |                                  |                   |           |                                                                                               |
| Ground Level Doorframes, suspected throughout<br>Pink upper paint system, white lower paint system | -         | Positive<br>(Lower paint system) | ~50m <sup>2</sup> | Good      | Maintain in good condition, over paint with a lead-free paint as part of ongoing maintenance. |
| <b>No. 3 Transit Shed</b>                                                                          |           |                                  |                   |           |                                                                                               |
| Doorframes Throughout<br>Orange upper paint system, white lower paint system                       | -         | Negative                         | -                 | -         | -                                                                                             |

**Hazardous Materials Re-Inspection Survey Report**  
**Sydney Ports Corporation**  
**35 Hickson Rd, Darling Harbour NSW**  
**Appendix B: Asbestos Sample Analysis Report**

## Asbestos Sample Analysis Report 35 Hickson Rd, Darling Harbour NSW

This report presents the results of an asbestos fibre identification analysis performed on eight (8) samples collected by Claudia Heidemann of Noel Arnold & Associates Pty Ltd from 35 Hickson Rd, Darling Harbour NSW on 1st June 2006.

All sample analysis was performed in our Sydney Laboratory in accordance with Noel Arnold & Associates Pty Ltd Test Method Number 2 "Qualitative Identification of Asbestos in Bulk Samples" and following the guidelines of the NOHSC. The samples will be kept for six months and then disposed of, unless notified otherwise.

The results of the asbestos identification analysis are presented in the appended table overleaf.

Should you require further information please contact the undersigned.

Yours sincerely,

**NOEL ARNOLD AND ASSOCIATES PTY LTD**



**ZARA MASON**

**APPROVED IDENTIFIER & SIGNATORY**



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Number: 3409**

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**Date of Analysis: 05/06/2006**

The design of sampling strategies is outside the scope of accreditation because each situation is individual, which does not allow for an objective assessment of this aspect.



| NAA Sample No.                                      | Location / Description / Sample Size                                                                                                                                                               | Analysis Result                               |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| <b>Location: 35 Hickson Rd, Darling Harbour NSW</b> |                                                                                                                                                                                                    |                                               |
| 49154-01                                            | Transit Shed No. 3 Customs Office – Vinyl floor tiles; Green coloured<br><br>Green semi-flexible vinyl material and associated amber adhesive material<br><br>~43 x 28 x 3 mm                      | No Asbestos Fibres Detected <sup>Note 1</sup> |
| 49154-02                                            | Transit Shed No. 3 Customs Office – Vinyl floor sheeting; Grey coloured<br><br>Light grey semi-flexible vinyl material and associated amber adhesive material<br><br>~38 x 18 x 3 mm               | No Asbestos Fibres Detected <sup>Note 1</sup> |
| 49154-03                                            | Transit Shed No. 3 Customs Office – Ceiling tiles; Fibre cement sheeting<br><br>White painted brown compressed board-like material<br><br>~8 x 3 x <1 mm                                           | No Asbestos Fibres Detected                   |
| 49154-04                                            | Administration Building, Training Room – Vinyl floor sheeting; Olive green coloured<br><br>Green brittle vinyl tile/sheet material and associated amber adhesive material<br><br>~52 x 31 x 2.5 mm | No Asbestos Fibres Detected <sup>Note 1</sup> |
| 49154-05                                            | Transit Shed No. 5 Level 1 – Vinyl floor sheeting; Pink coloured<br><br>Pink flexible tile/sheet material and associated amber adhesive material<br><br>~50 x 32 x 2 mm                            | No Asbestos Fibres Detected <sup>Note 1</sup> |
| 49154-06                                            | Transit Shed No. 5, Exterior – Fibre cement sheet panel beneath window<br><br>Unpainted grey compressed fibre cement sheet material<br><br>~8 x 5 x <1 mm                                          | <b>Chrysotile (White Asbestos)</b>            |

| NAA Sample No. | Location / Description / Sample Size                                                                                                                           | Analysis Result                               |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| 49154-07       | Transit Shed No. 5 Kitchen – Vinyl floor tiles; Blue coloured<br>Blue flexible vinyl tile/sheet material and associated dark brown adhesive<br>~40 x 34 x 3 mm | No Asbestos Fibres Detected <sup>Note 1</sup> |
| 49154-08       | Administration Building Level 1 Hot water cupboard – Pipe lagging<br>Brown fibrous insulation material<br>~18 x 12 x 1 mm                                      | No Asbestos Fibres Detected                   |

**\*All samples are analysed by polarised light microscopy, including dispersion staining.**

**\*Shaded rows indicate a positive result for asbestos.**

Note 1. Confirmation by another analytical technique advised due to the nature of the sample.



**Hazardous Materials Re-Inspection Survey Report**  
**Sydney Ports Corporation**  
**35 Hickson Rd, Darling Harbour NSW**  
**Appendix C: Risk Assessment Factors**

## Risk Assessment Factors - Asbestos

To assess the health risk posed by the presence of asbestos-containing material, all relevant factors must be considered. These factors include:

- ☐ Evidence of physical damage;
- ☐ Evidence of water damage;
- ☐ Proximity of air plenums and direct air stream;
- ☐ Friability of asbestos material;
- ☐ Requirement for access for building operations;
- ☐ Requirement for access for maintenance operations;
- ☐ Likelihood of disturbance of the asbestos material;
- ☐ Accessibility;
- ☐ Exposed surface areas; &
- ☐ Environmental conditions.

These aspects are in turn judged upon; (i) potential for fibre generation, and, (ii) the potential for exposure. Where these factors have indicated that there is a possibility of exposure to airborne fibres, appropriate recommendations for repair, maintenance or abatement of the asbestos-containing materials are made.

### Condition

The condition of the asbestos products identified during the survey is usually reported as either being good or poor.

- ☐ *Good* refers to asbestos materials, which have not been damaged or have not deteriorated.
- ☐ *Minor damage* refers to the asbestos material having suffered minor cracking or de-surfacing.
- ☐ *Poor* describes asbestos materials, which have been damaged, or their condition has deteriorated over time.

### Friability

The friability of asbestos products describes the ease of which the material can be crumbled, and hence to release fibres.

- ☐ *Friable asbestos* (eg limpet beam insulation, pipe lagging) can be easily crumbled and is more hazardous than non-friable asbestos products.
- ☐ *Non-friable asbestos*, commonly known as bonded asbestos, is typically comprised of asbestos fibres tightly bound in a stable non-asbestos matrix.

Examples of non-friable asbestos products include asbestos cement materials (sheeting, pipes etc), asbestos containing vinyl floor tiles and electrical backing boards.

### Accessibility/Disturbance Potential

Asbestos products can be classified as having low, medium or high accessibility/disturbance potential.

- ☐ *Low accessibility* describes asbestos products that cannot be easily disturbed, such as materials in building voids, set ceilings etc.
- ☐ *Medium accessibility* describes asbestos products that are visible but normal access is impeded, such as materials behind cladding material or is present in a ceiling space or are height restricted.
- ☐ *High accessibility* asbestos products can be easily accessed or damaged due to their close proximity to personnel, eg asbestos cement walls or down pipes.

## Risk Status

The risk factors described above are used to rank the health risk posed by the presence of asbestos-containing materials.

- ☐ A low risk ranking describes asbestos materials that pose a low health risk to personnel, employees and the general public providing they stay in a stable condition, for example asbestos materials that are in good condition and have low accessibility.
- ☐ A medium risk ranking applies to materials that pose an increased risk to people in the area.
- ☐ Asbestos materials that possess a high risk ranking pose a high health risk to personnel or the public in the area of the material. Materials with a high risk ranking will also possess a Priority 1 recommendation to manage the asbestos and reduce the risk.

## Priority Rating System for Control Recommendations - Asbestos

The following priority rating system is adopted to assist in the programming and budgeting of the control of asbestos risk identified at the site.

### Priority 1: Hazard with Significant Risk Potential (Red)

An area has asbestos containing materials, which are either damaged or are being exposed to continual disturbance. Due to these conditions, there is an increased potential for exposure and/or transfer of the material to other parts with continued unrestricted use of this area. Representative asbestos fibre monitoring should be conducted in the building area during normal building operation where recommended. Prompt abatement of the asbestos hazard is recommended and instigation of control measures under an asbestos management plan.

### Priority 2: Hazard with Elevated Risk Potential (Orange)

An area has asbestos containing materials with a potential for disturbance due to the following conditions:

- ☐ Material has been disturbed or damaged and its current condition, while not posing an immediate hazard, is unstable.
- ☐ The material is accessible and can when disturbed, present a short-term exposure risk.
- ☐ Demolition, renovation, refurbishment, maintenance, modification or new installations, involving air-handling system, ceilings, lighting, fire safety systems or floor layout.

Appropriate abatement measures should be taken at earliest possible convenient time. A negligible health risk exists if materials remain undisturbed under the control of an asbestos management plan.

### Priority 3: Maintenance Controllable – Potential Hazard During Refurbishment (Yellow)

An area has asbestos-containing materials, where

- ☐ The condition of the friable asbestos material is now stable and has low potential of being disturbed or
- ☐ The material is currently in a non-friable condition and does not present an exposure risk unless cut, drilled, sanded or otherwise abraded.

Negligible health risks are present if materials are left undisturbed under the control of an asbestos management plan. Defer any major action unless materials are to be disturbed as a result of maintenance, refurbishment or demolition operations.