

# Appendix B

Certificates of analysis



# Certificate of Analysis

**CLIENT:** Cranbrook School  
**CLIENT ADDRESS:** 5 Victoria Rd  
Bellevue Hill NSW 2023  
**TELEPHONE:** 02 9327 9422  
**FAX / E-MAIL:**  
**CONTACT:** David Hull  
**LOCATION:** As Supplied

**CERTIFICATE NO:** 2189256A-20516  
**DATE SAMPLED:** 1/05/2013  
**DATE RECEIVED:** 2/05/2013  
**DATE ANALYSED:** 2/05/2013  
**SAMPLED BY:** As Received

**TEST METHOD:** Qualitative identification of asbestos types in bulk samples at Parsons Brinckerhoff Brisbane Laboratory by polarised light microscopy, including dispersion staining techniques using Parsons Brinckerhoff in-house method No.1, AS4964 (2004) and NATA accreditation No. 9607. This document is issued in accordance with NATA's accreditation requirements. Accredited for compliance with ISO/IEC:17025. The results of tests, calibrations and or measurements included in this document are traceable to Australian/national standards.

<u>Lab Number</u>	<u>Sample Id</u>	<u>Sample Description</u>	<u>Sample Dimensions cm</u>	<u>Identification Type</u>
M001	CRAN/001/A01	Sealant	1 x 1	NAD - OF
M002	CRAN/001/A02	Fibre Cement Sheet	1 x 2	CH
M003	CRAN/001/A03	Fibre Cement Sheet	1 x 1	CH
M004	CRAN/001/A04	Fibre Cement Sheet	1 x 1	NAD - OF
M005	CRAN/001/A05	Fibre Cement Sheet	4 x 4	NAD - OF
M006	CRAN/001/A06	Fibre Cement Sheet	0.1 x 0.1	CH, C
M007	CRAN/001/A07	Fibre Cement Sheet	1 x 1	NAD - OF
M008	CRAN/001/A08	Fibre Cement Sheet	1 x 1	NAD - OF

**LEGEND:**

NAD - No Asbestos Detected  
CH - Chrysotile Asbestos Detected  
A - Amosite Asbestos Detected  
C - Crocidolite Asbestos Detected  
UMF - Unknown Mineral Fibres Detected  
SMF - Synthetic Mineral Fibres Detected  
OF - Organic Fibres Detected

Hand picked refers to small discrete amounts of asbestos distributed unevenly in a large body of non asbestos material.



Approved Identifier

Name: Adam Maurice

Approved Signatory

Name: Michael Shepherd

**Notes:**

If no asbestos is detected in vinyl tiles, mastics, sealants, epoxy resins and ore samples then confirmation by another independent analytical technique is advised due to the nature of the samples.

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**AUTHORISATION DATE**

2/05/2013

# Certificate of Analysis

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<u>Lab Number</u>	<u>Sample Id</u>	<u>Sample Description</u>	<u>Sample Dimensions cm</u>	<u>Identification Type</u>
M009	CRAN/001/A09	Fibre Cement Sheet	1 x 1	NAD - OF
M010	CRAN/002/A01	Fibre Cement Sheet	1 x 1	NAD - OF
M011	CRAN/002/A02	Fibre Cement Sheet	1 x 1	CH
M012	CRAN/002/A03	Fibre Cement Sheet	1 x 1	CH
M013	CRAN/002/A04	Fibre Cement Sheet	1 x 1	NAD - OF
M014	CRAN/003/A01	Fibre Cement Sheet	1 x 1	CH
M015	CRAN/003/A02	Fibre Cement Sheet	1 x 1	NAD - OF
M016	CRAN/003/A03	Fibre Cement Sheet	1 x 1	CH
M017	CRAN/003/A04	Fibre Cement Sheet	1 x 1	CH
M018	CRAN/003/A05	Putty	1 x 1	NAD - OF
M019	CRAN/003/A06	Fibre Cement Sheet	2 x 3	NAD - OF
M020	CRAN/004/A01	Insulation	1 x 1	CH
M021	CRAN/004/A02	Fibre Cement Sheet	1 x 1	CH
M022	CRAN/004/A03	Fibre Cement Sheet	1 x 1	CH
M023	CRAN/005/A01	Fibre Cement Sheet	1 x 1	CH, A, C

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<u>Lab Number</u>	<u>Sample Id</u>	<u>Sample Description</u>	<u>Sample Dimensions cm</u>	<u>Identification Type</u>
M024	CRAN/005/A02	Fibre Cement Sheet	1 x 1	NAD - OF
M025	CRAN/007/A01	Fibre Cement Sheet	1 x 2	NAD - OF
M026	CRAN/007/A02	Fibre Cement Sheet	1 x 1	NAD - OF
M027	CRAN/007/A03	Mastic	2 x 3	NAD - OF
M028	CRAN/007/A04	Fibre Cement Sheet	1 x 1	NAD - OF
M029	CRAN/007/A05	Fibre Cement Sheet	1 x 2	NAD - OF
M030	CRAN/007/A06	Vinyl Tiles	1 x 2	CH
M031	CRAN/007/A07	Fibre Cement Sheet	1 x 1	NAD - OF
M032	CRAN/007/A08	Fibre Cement Sheet	1 x 1	NAD - OF
M033	CRAN/008/A01	Fibre Cement Sheet	1 x 1	NAD - OF
M034	CRAN/008/A02	Fibre Cement Sheet	1 x 1	NAD - OF
M035	CRAN/008/A03	Fibre Cement Sheet	1 x 1	NAD - OF
M036	CRAN/008/A04	Insulation	1 x 1	NAD - SMF
M037	CRAN/008/A05	Mastic	1 x 1	NAD - OF
M038	CRAN/009/A01	Fibre Cement Sheet	1 x 1	NAD - OF

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<u>Lab Number</u>	<u>Sample Id</u>	<u>Sample Description</u>	<u>Sample Dimensions cm</u>	<u>Identification Type</u>
M039	CRAN/009/A02	Sealant	1 x 1	CH
M040	CRAN/009/A03	Sealant	1 x 1	NAD - OF
M041	CRAN/009/A04	Fibre Cement Sheet	1 x 1	CH
M042	CRAN/009/A05	Fibre Cement Sheet	1 x 1	CH
M043	CRAN/009/A06	Mastic	1 x 1	NAD - OF
M044	CRAN/009/A07	Fibre Cement Sheet	2 x 3	NAD - OF
M045	CRAN/009/A08	Fibre Cement Sheet	1 x 1	NAD - OF
M046	CRAN/009/A09	Vinyl Sheet	1 x 1	NAD - OF
M047	CRAN/009/A10	Fibre Cement Sheet	1 x 1	NAD - OF
M048	CRAN/009/A11	Fibre Cement Sheet	1 x 1	CH
M049	CRAN/009/A12	Vinyl Tiles	4 x 5	CH
M050	CRAN/009/A13	Fibre Cement Sheet	1 x 1	CH
M051	CRAN/009/A14	Bitumastic Membrane	1 x 1	CH
M052	CRAN/009/A15	Vinyl Tiles	4 x 7	CH
M053	CRAN/009/A16	Fibre Cement Sheet	1 x 1	NAD - OF

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LOCATION: As Supplied

<u>Lab Number</u>	<u>Sample Id</u>	<u>Sample Description</u>	<u>Sample Dimensions cm</u>	<u>Identification Type</u>
M054	CRAN/009/A17	Resinous Board	1 x 1	CH
M055	CRAN/009/A18	Fibre Cement Sheet	1 x 1	NAD - OF
M056	CRAN/009/A19	Fibre Cement Sheet	1 x 1	CH, A
M057	CRAN/010/A01	Fibre Cement Sheet	1 x 1	NAD - OF
M058	CRAN/010/A02	Fibre Cement Sheet	1 x 1	CH
M059	CRAN/010/A03	Resinous Board	3 x 3	CH
M060	CRAN/010/A04	Rope	1 x 3	CH
M061	CRAN/010/A05	Fibre Cement Sheet	1 x 1	NAD - OF
M062	CRAN/010/A06	Vermiculite	3 x 5	NAD - OF
M063	CRAN/010/A07	Vinyl Tiles	3 x 3	NAD - OF
M064	CRAN/010/A08	Sealant	1 x 1	NAD - OF
M065	CRAN/011/A01	Vermiculite	3 x 5	NAD - OF
M066	CRAN/011/A02	Fibre Cement Sheet	1 x 1	NAD - OF
M067	CRAN/011/A03	Sealant	1 x 1	NAD - OF
M068	CRAN/011/A04	Fibre Cement Sheet	2 x 2	NAD - OF

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<u>Lab Number</u>	<u>Sample Id</u>	<u>Sample Description</u>	<u>Sample Dimensions cm</u>	<u>Identification Type</u>
M069	CRAN/012/A01	Sealant	1 x 1	NAD - OF
M070	CRAN/012/A02	Vinyl Tiles	2 x 3	NAD - OF
M071	CRAN/012/A03	Fibre Cement Sheet	1 x 1	CH
M072	CRAN/012/A04	Fibre Cement Sheet	1 x 1	NAD - OF
M073	CRAN/012/A05	Bitumastic Material	1 x 1	CH
M074	CRAN/012/A06	Cementitious Material	1 x 1	NAD - OF
M075	CRAN/012/A07	Fibre Cement Sheet	1 x 1	NAD - OF
M076	CRAN/012/A08	Fibre Cement Sheet	1 x 1	CH
M077	CRAN/013/A01	Sealant	1 x 1	NAD - OF
M078	CRAN/013/A02	Fibre Cement Sheet	1 x 1	NAD - OF
M079	CRAN/013/A03	Fibre Cement Sheet	1 x 1	CH
M080	CRAN/013/A04	Fibre Cement Sheet	2 x 4	CH, A, C
M081	CRAN/013/A05	Vinyl Tiles	2 x 3	NAD - OF
M082	CRAN/013/A06	Fibre Cement Sheet	1 x 1	NAD - OF
M083	CRAN/013/A07	Resinous Material	1 x 1	NAD - OF

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<u>Lab Number</u>	<u>Sample Id</u>	<u>Sample Description</u>	<u>Sample Dimensions cm</u>	<u>Identification Type</u>
M084	CRAN/013/A08	Fibre Cement Sheet	1 x 1	NAD - OF
M085	CRAN/014/A01	Fibre Cement Sheet	1 x 2	NAD - OF
M086	CRAN/014/A02	Fibre Cement Sheet	1 x 3	NAD - OF
M087	CRAN/JSP/A01	Fibre Cement Sheet	1 x 1	CH, A, C
M088	CRAN/JSP/A02	Debris	4 x 7	CH, A

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**AUTHORISATION DATE**

2/05/2013



**CERTIFICATE OF ANALYSIS**

**89674**

**Client:**

**Parsons Brinckerhoff Aust. Pty Ltd**  
GPO Box 5394  
Sydney  
NSW 2001

**Attention:** Jason North/John Batty

**Sample log in details:**

Your Reference:	<b>2189256A/Cranbrook School</b>
No. of samples:	58 Paints 1 Dust
Date samples received / completed instructions received	26/04/2013 / 26/04/2013
<i>This report supersedes R00 due to a correction in the sample ID's for 89674 7-12.</i>	

**Analysis Details:**


Please refer to the following pages for results, methodology summary and quality control data.  
Samples were analysed as received from the client. Results relate specifically to the samples as received.  
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.  
***Please refer to the last page of this report for any comments relating to the results.***

**Report Details:**

Date results requested by: / Issue Date:	3/05/13 / 13/05/13
Date of Preliminary Report:	Not issued

NATA accreditation number 2901. This document shall not be reproduced except in full.  
Accredited for compliance with ISO/IEC 17025. **Tests not covered by NATA are denoted with \*.**

**Results Approved By:**

  
Rhian Morgan  
Reporting Supervisor

Lead in Paint Our Reference: Your Reference	UNITS -----	89674-1 CRAN/001/P0 1	89674-2 CRAN/001/P0 2	89674-3 CRAN/001/P0 3	89674-4 CRAN/001/P0 4	89674-5 CRAN/001/P0 5
Type of sample	-----	Paint	Paint	Paint	Paint	Paint
Lead in paint	% w/w	0.62	<0.05	<0.05	1.7	<0.05

Lead in Paint Our Reference: Your Reference	UNITS -----	89674-6 CRAN/001/P0 6	89674-7 CRAN/002/P0 1	89674-8 CRAN/002/P0 2	89674-9 CRAN/002/P0 3	89674-10 CRAN/002/P0 4
Type of sample	-----	Paint	Paint	Paint	Paint	Paint
Lead in paint	% w/w	0.11	1.1	<0.05	4.0	<0.05

Lead in Paint Our Reference: Your Reference	UNITS -----	89674-11 CRAN/002/P0 5	89674-12 CRAN/002/P0 6	89674-13 CRAN/003/P0 1	89674-14 CRAN/003/P0 2	89674-15 CRAN/003/P0 3
Type of sample	-----	Paint	Paint	Paint	Paint	Paint
Lead in paint	% w/w	<0.05	0.24	0.62	<0.05	<0.05

Lead in Paint Our Reference: Your Reference	UNITS -----	89674-16 CRAN/003/P0 4	89674-17 CRAN/004/P0 1	89674-18 CRAN/004/P0 2	89674-19 CRAN/004/P0 3	89674-20 CRAN/004/P0 4
Type of sample	-----	Paint	Paint	Paint	Paint	Paint
Lead in paint	% w/w	<0.05	7.0	<0.05	4.0	2.7

Lead in Paint Our Reference: Your Reference	UNITS -----	89674-21 CRAN/005/P0 1	89674-22 CRAN/005/P0 2	89674-23 CRAN/005/P0 3	89674-24 CRAN/005/P0 4	89674-25 CRAN/005/P0 5
Type of sample	-----	Paint	Paint	Paint	Paint	Paint
Lead in paint	% w/w	1.2	0.71	0.46	3.3	<0.05

Lead in Paint Our Reference: Your Reference	UNITS -----	89674-26 CRAN/005/P0 6	89674-28 CRAN/007/P0 1	89674-29 CRAN/007/P0 2	89674-30 CRAN/007/P0 3	89674-31 CRAN/007/P0 4
Type of sample	-----	Paint	Paint	Paint	Paint	Paint
Lead in paint	% w/w	0.11	<0.05	<0.05	0.25	<0.05

Lead in Paint Our Reference: Your Reference	UNITS -----	89674-32 CRAN/008/P0 1	89674-33 CRAN/008/P0 2	89674-34 CRAN/008/P0 3	89674-35 CRAN/008/P0 4	89674-36 CRAN/009/P0 1
Type of sample	-----	Paint	Paint	Paint	Paint	Paint
Lead in paint	% w/w	<0.05	<0.05	<0.05	<0.05	<0.05

Lead in Paint Our Reference: Your Reference	UNITS -----	89674-37 CRAN/009/P0 2	89674-38 CRAN/009/P0 3	89674-39 CRAN/009/P0 4	89674-40 CRAN/010/P0 1	89674-41 CRAN/010/P0 2
Type of sample	-----	Paint	Paint	Paint	Paint	Paint
Lead in paint	% w/w	0.28	0.057	<0.05	0.10	<0.05

Lead in Paint Our Reference: Your Reference	UNITS -----	89674-42 CRAN/010/P0 3	89674-43 CRAN/010/P0 4	89674-44 CRAN/011/P0 1	89674-45 CRAN/011/P0 2	89674-46 CRAN/011/P0 3
Type of sample	-----	Paint	Paint	Paint	Paint	Paint
Lead in paint	% w/w	0.058	<0.05	0.068	0.063	0.19

Lead in Paint Our Reference: Your Reference	UNITS -----	89674-47 CRAN/012/P0 1	89674-48 CRAN/012/P0 2	89674-49 CRAN/012/P0 3	89674-50 CRAN/012/P0 4	89674-51 CRAN/013/P0 1
Type of sample	-----	Paint	Paint	Paint	Paint	Paint
Lead in paint	% w/w	0.31	<0.05	0.058	<0.05	<0.05

Lead in Paint Our Reference: Your Reference	UNITS -----	89674-52 CRAN/013/P0 2	89674-53 CRAN/013/P0 3	89674-54 CRAN/013/P0 4	89674-55 CRAN/JSP/P0 1	89674-56 CRAN/JSP/P0 2
Type of sample	-----	Paint	Paint	Paint	Paint	Paint
Lead in paint	% w/w	<0.05	0.33	<0.05	11	14

Lead in Paint Our Reference: Your Reference	UNITS -----	89674-57 CRAN/JSP/P0 3	89674-58 CRAN/JSP/P0 4	89674-59 CRAN/003/P0 5
Type of sample	-----	Paint	Paint	Paint
Lead in paint	% w/w	6.9	0.42	<0.05

Lead (dust)	UNITS	89674-27
Our Reference:	-----	CRAN/005/D0
Your Reference		1
Type of sample	-----	Dust
Lead	mg/kg	670

Method ID	Methodology Summary
Metals-004	Digestion of Paint chips/scrapings/liquids for Metals determination by ICP-AES/MS and or CV/AAS.
Metals-020 ICP-AES	Determination of various metals by ICP-AES.



**Client Reference: 2189256A/Cranbrook School**

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Lead in Paint						Base    Duplicate    %RPD		
Lead in paint	% w / w	0.05	Metals-004	<0.05	89674-6	0.11    0.12    RPD: 9	LCS-1	102%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Lead (dust)						Base    Duplicate    %RPD		
Lead	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-1	98%
QUALITY CONTROL Lead in Paint	UNITS	Dup. Sm#		Duplicate Base + Duplicate + %RPD		Spike Sm#	Spike % Recovery	
Lead in paint	% w / w	89674-15		<0.05    <0.05		LCS-2	103%	
QUALITY CONTROL Lead in Paint	UNITS	Dup. Sm#		Duplicate Base + Duplicate + %RPD		Spike Sm#	Spike % Recovery	
Lead in paint	% w / w	89674-25		<0.05    <0.05		LCS-3	100%	
QUALITY CONTROL Lead in Paint	UNITS	Dup. Sm#		Duplicate Base + Duplicate + %RPD		Spike Sm#	Spike % Recovery	
Lead in paint	% w / w	89674-33		<0.05    <0.05		LCS-4	105%	
QUALITY CONTROL Lead in Paint	UNITS	Dup. Sm#		Duplicate Base + Duplicate + %RPD				
Lead in paint	% w / w	89674-41		<0.05    <0.05				
QUALITY CONTROL Lead in Paint	UNITS	Dup. Sm#		Duplicate Base + Duplicate + %RPD				
Lead in paint	% w / w	89674-59		<0.05    <0.05				

**Report Comments:**

Asbestos ID was analysed by Approved Identifier: Not applicable for this job  
 Asbestos ID was authorised by Approved Signatory: Not applicable for this job

INS: Insufficient sample for this test	PQL: Practical Quantitation Limit	NT: Not tested
NA: Test not required	RPD: Relative Percent Difference	NA: Test not required
<: Less than	>: Greater than	LCS: Laboratory Control Sample

**Quality Control Definitions**

**Blank:** This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

**Duplicate:** This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

**Matrix Spike :** A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

**LCS (Laboratory Control Sample) :** This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

**Surrogate Spike:** Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

**Laboratory Acceptance Criteria**

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for SVOC and speciated phenols is acceptable.