

Asbestos Analyst's Certificate Report

Job Ref No: **247750**, Cert Ref No: **40809**, Account Ref No: **18091**, Contract Ref No: **33101**

St Cadocs Hospital, Lodge Road, Caerleon, NP18 3XQ



Building	Level	Works-Area	Enclosure Used?	Enclosure Dimensions	Certificate Issue Date
St cadocs	0	Pillmawr ward external windows	Yes	Area: 45m ² , Height: 3m	Wednesday, 21st February, 2018

Overall Certificate Status	Passed Tests	Failed Tests	WARNINGS
PASSED	0	0	0

Head Office
 7 Halifax Court, Dunston,
 Gateshead, NE11 9JT
 E: enquiries@lucion.co.uk
 T: 0345 5040 303



Intro

This certificate is for the attention of

Mark Powell
MCL Environmental Services Ltd
7a Port Road Maesglas Retail Estate Newport Gwent NP20 2XF

Sampling & Evaluation Methods

In-house methods TOP02.08 & TOP02.09 in accordance with HSG 248 Asbestos - The Analyst's Guide to Sampling, Analysis and Clearance Procedures.

Notes: The samples referred to in this report will be retained for 6 months unless requested otherwise. Unless otherwise stated, there are no departures from the sampling and evaluation methods specified. Results detailed in this report relate only to the time, and corresponding conditions prevailing, when the sampling and examination were undertaken.

Notes to Test Accuracy

Airflow measured on site is recorded against a correction chart. Flow meters are calibrated against a UKAS certified master flow meter accurate to $\pm 0.5\%$. In accordance with HSG248, if the combined effect of ambient temperature and pressure between calibration and sampling location exceeds 5% a correction is applied to the air sample volume. The calculated fibre concentration is given for each air sample taken. Where the corresponding reported fibre concentration is preceded by "<", the lower limit of quantification (LOQ) of the method has not been reached. For a 480 litre air sample with 200 graticule areas counted, the (LOQ) of this method is 0.010 fibres per cubic centimetre of air; samples of less volume/graticules will be reported to a lower LOQ (refer count sheet). While counting randomly distributed fibres, an expected degree of variation of 1.5 standard deviations from the mean count may occur. At clearance indicator level (0.01 fibres per cubic centimetre of air) a 480-litre air sample yielding a count of 20 fibres over 200 fields would have an expected standard deviation of ± 8 fibres.

Sampling

When testing within an Enclosure and conducting a 4-Stage Clearance - the number of samples (Ns) is calculated by $A/3-1$. Where enclosure is less than 3m in height: A is denoted by area. Where enclosure is greater than 3m in height: A is denoted by volume/3. Refer air sampling and fibre counting sheet.

When testing within a decontamination unit (DCU) - where the combined floor area of shower and dirty areas is less than 10m²; 1 air test has been carried out. During this test the door between these areas has been propped open. For combined floor areas exceeding 10m² a sample in each area (i.e. shower and dirty end) will be taken.

For tests other than those associated with 4-Stage Clearance testing the analyst will apply the principles of current HSE guidance and experience combined with situational circumstances.

Where a photograph of the completed decontamination unit certificate appears in this report the analyst has completed an abridged report to be left inside the DCU; this abridged report should not be used in lieu of this comprehensive report.

Where sampling plans have been supplied; please note these are not to scale.

Where a sample filter has been deemed uncountable or biased the analyst will record this as "uncountable" in the count-sheet.

Field Blanks - Where site sampling and counting is carried out in a field laboratory a field blank is carried out by the analyst prior to the start of sampling and counting. The field blank constitutes a filter taken from a loaded but unused filter head that is mounted in the usual way and assigned a sample number which is recorded on the slide and the count sheet. Following sampling and analysis of the air tests, the results shall be assessed; where low counts ($<0.01 \text{ fcm}^{-3}$) are obtained from some of the field samples, analysis of the field blank will not be necessary. Where elevated counts ($>0.01 \text{ fcm}^{-3}$) are obtained on all field samples, then the field blank must be counted to exclude the possibility of contamination.

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Test: Report Acknowledgement (247750-3) 9



Test: Leak Testing (247750-1)

Number of samples being taken	4
Air sample results	All air samples gave results below 0.01 fibres per cc of air.
Stage Warning?	No
Analyst Signature	
Signature Date	Wednesday, 21st February, 2018 @ 09:13:17
	outside airlock/baglock
	beside NPU
	end of enclosure

Test: Leak Testing (247750-1) - Count Sheet

Lucion Report Number		Test Date		Sampled By		Counted By									
247750-1		Wednesday, 21st February, 2018		Paul Crocker		Paul Crocker									
Air Volume Correction Detail															
T Cal (K)		T Site (C)		T Pcal (hPa)											
293		8		1013											
Microscope & Calculation Detail															
P Site (hPa)		Correction Required		Micro No.		Graticule Dia (µm)		Test Slide Result (Grid No.)	Filter Dia. Exposed (mm)						
1026		1		MS089		100		5	22.5						
Instrument Detail															
Thermometer, Barometer, Timepiece		Flow (Hi)		Flow (Low)		HSE/NPL		Graticule Slide							
WS130		FM5		FM151		320		SM763							
Sample Details															
Sample No.	Sample Location	Head No.	Pump No.	Time On (hh:mm)	Time Off (hh:mm)	Run Time (mins)	Start Flow (lmin-1)	Int Flow (lmin-1)	End Flow (lmin-1)	Calc. Volume (l)	Corr. Volume (l)	Fibres	Fields	Calc. Conc. (Fibres cm ⁻³)	Report. Conc. (Fibres cm ⁻³)
247750-1-1	Field Blank	751										0.0	200		
247750-1-2	outside airlock/ baglock	752	1787	08:45:00	09:45:00	60	8.0	8.0	8.0	480	480	2.5	200	0.001	<0.01
247750-1-3	beside NPU	753	1788	08:46:00	09:46:00	60	8.0	8.0	8.0	480	480	1.0	200	0.001	<0.01
247750-1-4	end of enclosure	755	1805	08:47:00	09:47:00	60	8.0	8.0	8.0	480	480	2.0	200	0.001	<0.01



Test: Personal (247750-2)

Number of samples being taken	1
RPE used for works	phantom
Description of works / product removed	removal of intact AIB panels
Asbestos Contractor	MCL
Client Representative or Contractor	Joe Gaddam
Air sample results	All air samples gave results below 0.01 fibres per cc of air.
Stage Warning?	No
Analyst Signature Signature Date	 Wednesday, 21st February, 2018 @ 11:31:56
Additional Photo 1	 operative wearing personal monitoring pump inside enclosure

Test: Personal (247750-2) - Count Sheet

Lucion Report Number		Test Date			Sampled By			Counted By							
247750-2		Wednesday, 21st February, 2018			Paul Crocker			Paul Crocker							
Air Volume Correction Detail															
T Cal (K)				T Site (C)				T Pcal (hPa)							
293				9				1013							
Microscope & Calculation Detail															
P Site (hPa)		Correction Required		Micro No.		Graticule Dia (µm)		Test Slide Result (Grid No.)		Filter Dia. Exposed (mm)					
1026		1		MS089		100		5		22.5					
Instrument Detail															
Thermometer, Barometer, Timepiece			Flow (Hi)			Flow (Low)			HSE/NPL			Graticule Slide			
WS130			FM5			FM151			320			SM763			
Sample Details															
Sample No.	Sample Location	Head No.	Pump No.	Time On (hh:mm)	Time Off (hh:mm)	Run Time (mins)	Start Flow (lmin-1)	Int Flow (lmin-1)	End Flow (lmin-1)	Calc. Volume (l)	Corr. Volume (l)	Fibres	Fields	Calc. Conc. (Fibres cm ⁻³)	Report. Conc. (Fibres cm ⁻³)
247750-2-1	on Joe Gaddarn during the removal of AIB panels	751	20	08:50:00	10:50:00	120	2.0	2.0	2.0	240	240	3.5	200	0.004	<0.02

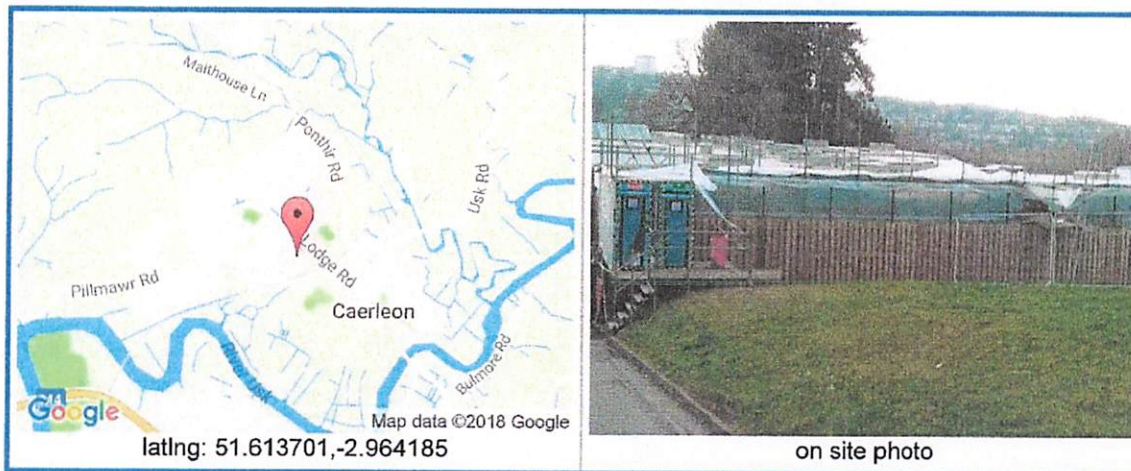
Test: Report Acknowledgement (247750-3)

Issue Certificate of Reoccupation?	No
Client Representative or Contractor	Gareth Pocket
Representative's Signature Client Representative or Contractor	 Gareth Pocket
Analyst Signature Signature Date	 Wednesday, 21st February, 2018 @ 11:23:09

Certificate of Reoccupation

Job Ref No: **247750**, Cert Ref No: **40935**, Account Ref No: **18091**, Contract Ref No: **33101**

St Cadocs Hospital, Lodge Road, Caerleon, NP18 3XQ



Building	Level	Works-Area	Enclosure Used?	Enclosure Dimensions	Certificate Issue Date
St Cadoc's - Pilmawr Ward	0	Phase 2 - Removal Of AIB Facia	Yes	Area: 26m ² , Height: 3m	Friday, 23rd February, 2018

Overall Certificate Status	Passed Tests	Failed Tests	WARNINGS
PASSED	4	0	0

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Report Contents

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Sample: Positioned inside enclosure (247750-6-3)	13
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Test: Clearance Stage 4 (247750-7) - Passed	14
Test: Report Acknowledgement (247750-8)	16

Test: Clearance Stage 1 (247750-4)**Passed** 

Stage Start Time	10:30:00
Stage End Time (set upon completion)	10:45:00
Enclosure / Work Area Desc. as per Contractor RAMS	Yes Pelmaur Ward - Phase 2
Works Description as Written on Contractor RAMS	Yes Removal of asbestos insulating board panels above windows within a metal case.
Has background air testing been performed	Yes Lucion present
Has smoke test been performed	Yes
Has leak air testing been performed	Yes Lucion present
Contractor RAMS checked and work appears to be according to RAMS	Yes
Has the contractor stated deviations from the methods statement?	No

table continued from previous page...

<p>Contractor Methods Statement Diagram</p>	
<p>Negative Pressure Capacity</p>	<p>4000 cfm</p>
<p>Negative Pressure Unit</p>	
<p>Is operational vacuum cleaner present?</p>	<p>Yes</p>
<p>Is hygiene facility operational</p>	<p>Yes: 8 Man</p>

table continued from previous page...





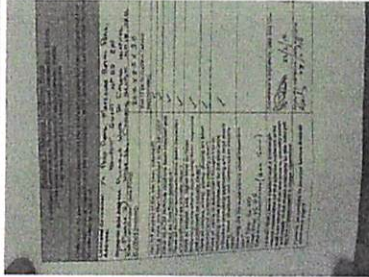
<p>Hygiene Facilities Photo</p>	
<p>Is enclosure lighting adequate</p>	<p>Yes</p>
<p>Is enclosure access adequate</p>	<p>Yes</p>
<p>Is enclosure viewing / CCTV adequate</p>	<p>Yes</p>
<p>Enclosure Viewing / CCTV Photo</p>	
<p>Is enclosure / work area free of debris and waste</p>	<p>Yes</p>
<p>Is waste storage area free of debris and waste</p>	<p>Yes</p>
<p>Is transit route free of debris and waste</p>	<p>Yes</p>
<p>Transit Route Photo</p>	
<p>Are hygiene facilities free of debris and waste</p>	<p>Yes</p>

table continued from previous page...


Stage Warning?	No
Analyst Signature Signature Date	 Friday, 23rd February, 2018 @ 10:40:27
Additional notes	Stage 1 satisfactory
Additional Photo 1	

Test: Clearance Stage 2 (247750-5)

Passed 

Stage Start Time	10:50:00
Stage End Time (set upon completion)	11:45:00
Start time of visual	Friday, 23rd February, 2018 @ 11:50:42
Is enclosure airlock clean	Yes
Is enclosure dry	Yes
Is enclosure / work area integrity adequate	Yes
Has the NPU filter been changed prior to visual?	Yes
Are plant / equipment covers removed	Not required
Are ceiling / walls / floor surfaces clean	Yes
Is culvert / drain / sump clean	Yes
Is boiler / tank / pipework / etc clean	Not required
Is support bracket clean	Yes
Is tray / cable / conduit clean	Not required
Are nuts / bolts / flanges / hatches clean	Yes
Is light fitting clean	Not required
Is ledge / window cill clean	Yes
Are screw holes / around nails cleaned or drilled	Yes
List plant equipment uncovered during removal	H type vacuum
Portable Equipment clean	Yes
Is polythene sheeting clean including folds	Yes
Is enclosure / work area surface vacuum cleaning adequate	Yes
Evidence of un-authorized lock down sprays?	No
Stage Warning?	No

table continued from previous page...

Analyst Signature Signature Date	 Friday, 23rd February, 2018 @ 11:46:36
Additional notes	Stage 2 Satisfactory. Minor cleaning required. Wooden framework has been wire brushed as far as reasonably practicable and where necessary timbers have been removed.

Test: Clearance Stage 3 (247750-6)

Passed 

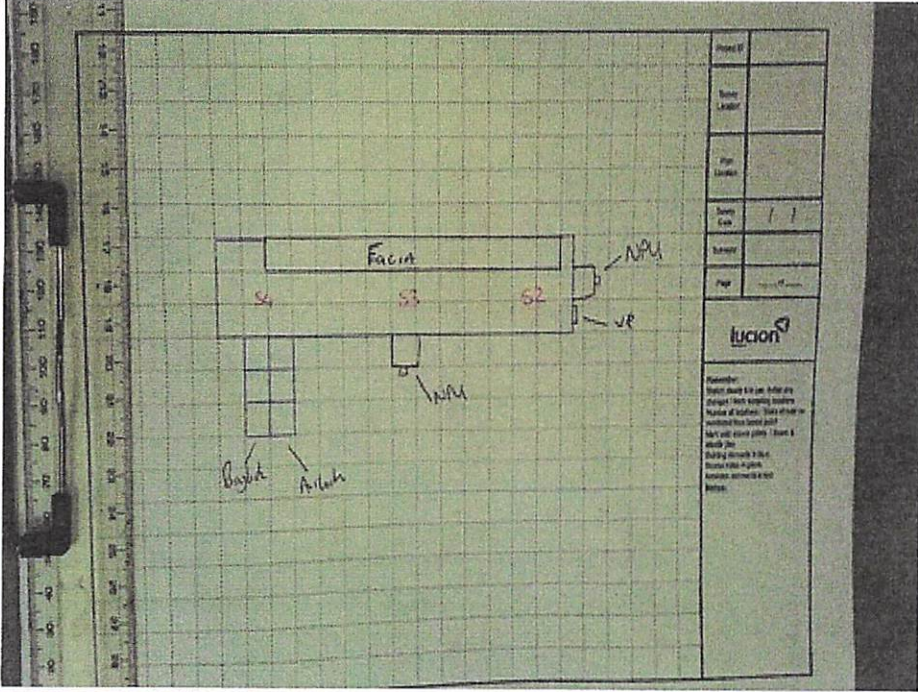

Enclosure Height (m)	3.00
Enclosure Area (m ²)	26
Number of samples being taken	2
Stage Start Time	11:50:00
Stage End Time (set upon completion)	12:45:00
Enclosure Sketch	
Is original floor surface uncovered	No Scaffold sheeted out
Has enclosure surface disturbance method been used	Brushing
Duration Of Disturbance (minutes:seconds)	4:30
Is NPU / extractor switched off	Yes

table continued from previous page...

Is NPU / extractor sealed	Yes
Has NPU / extractor prefilter been changed	Yes
Air sample results	All air samples gave results below 0.01 fibres per cc of air.
Stage Warning?	No
Analyst Signature Signature Date	 Friday, 23rd February, 2018 @ 12:45:43
Additional notes	Stage 3 satisfactory.

Test: Clearance Stage 3 (247750-6) - Count Sheet

Lucion Report Number		Test Date		Sampled By		Counted By									
247750-6		Friday, 23rd February, 2018		Adam Bailey		Adam Bailey									
Air Volume Correction Detail															
T Cal (K)		T Site (C)		T Pcal (hPa)											
293		3		1013											
Microscope & Calculation Detail															
P Site (hPa)		Correction Required		Micro No.		Graticule Dia (µm)		Test Slide Result (Grid No.)		Filter Dia. Exposed (mm)					
1002		1		MS13		100		5		22.5					
Instrument Detail															
Thermometer, Barometer, Timepiece		Flow (Hi)		Flow (Low)		HSE/NPL		Graticule Slide							
WS21		FM108		FM109		4013		SM09							
Sample Details															
Sample No.	Sample Location	Head No.	Pump No.	Time On (hh:mm)	Time Off (hh:mm)	Run Time (mins)	Start Flow (lmin-1)	Int Flow (lmin-1)	End Flow (lmin-1)	Calc. Volume (l)	Corr. Volume (l)	Fibres	Fields	Calc. Conc. (Fibres cm ⁻³)	Report. Conc. (Fibres cm ⁻³)
247750-6-1	Field Blank	01										0.5	100		
247750-6-2	Positioned inside enclosure	97	31	11:51:00	12:23:00	32	15.0		15.0	480	480	1.0	200	0.001	<0.01
247750-6-3	Positioned inside enclosure	128	38	11:52:00	12:24:00	32	15.0		15.0	480	480	0.5	200	0.000	<0.01
247750-6-4	Positioned inside enclosure	134	96	11:53:00	12:25:00	32	15.0		15.0	480	480	1.0	200	0.001	<0.01

Test: Clearance Stage 4 (247750-7)

Passed 



Stage Start Time	14:30:00
Stage End Time (set upon completion)	14:45:00
Is the former work area / enclosure location clean?	Yes
All of enclosure removed	Yes
Cleanliness of adjacent locations is adequate	Yes
Is covered equipment clean	Yes
Are cable trays / light fittings / conduits etc clean	Yes
Is sealing into adjacent contaminated locations satisfactory	Yes
Has visible waste been removed	Yes
Are transit and waste route(s) adequately clean	Yes
Remaining Suspect Asbestos Containing Material Integrity	Yes
Analyst Decontamination	Decontamination Unit
Analyst Signature Signature Date	 Friday, 23rd February, 2018 @ 14:45:06
Additional notes	Temporary tape and polythene remains in situ to protect roof space of building from weather.
Additional Photo 1	 Transit route

table continued from previous page...

Additional Photo 2



Temporary bulkhead

Additional Photo 3





scaffolded area

Additional Photo 4



Temporary tape

Test: Report Acknowledgement (247750-8)

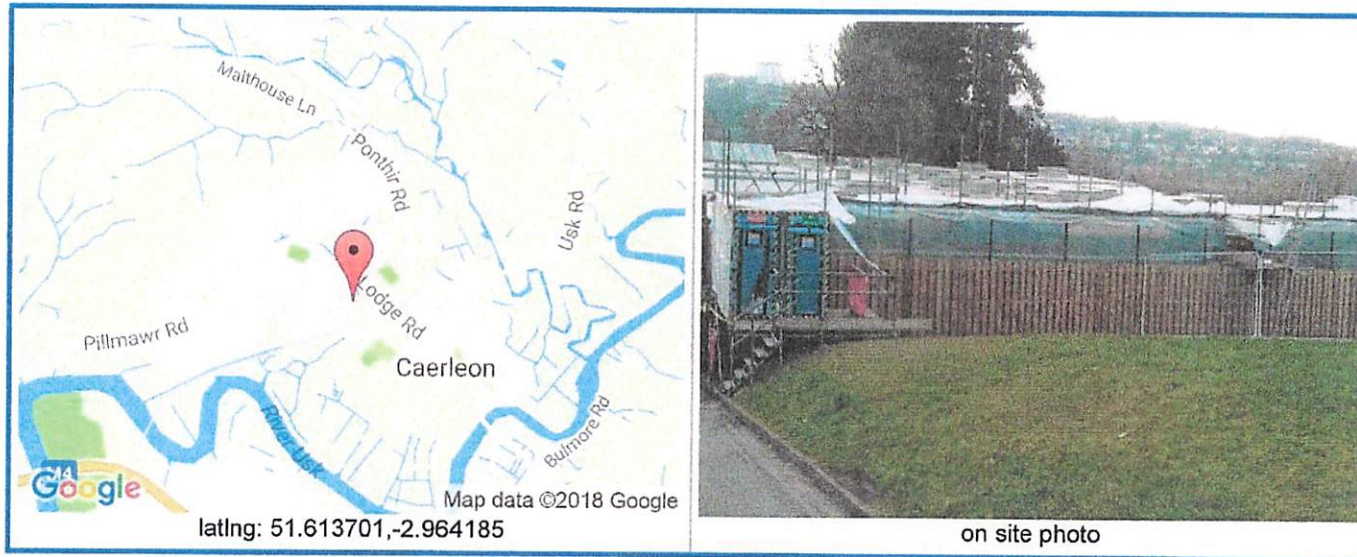
Issue Certificate of Reoccupation?	Yes
Client Representative or Contractor	G. Pocket
Representative's Signature Client Representative or Contractor	 G. Pocket
Analyst Signature Signature Date	 Friday, 23rd February, 2018 @ 14:50:52

Asbestos Analyst's Job Summary Report

Job Ref No: **247750**, Account Ref No: **18091**, Contract Ref No: **33101**

St Cadocs Hospital, Lodge Road, Caerleon, NP18 3XQ

Title: Air monitoring to Glenusk Wing Fascia removal works by MCL, **Including:** External Fascia, **Excluding:** All other areas



Passed Certificates	Failed Certificates
1	0

First Visit to Site: Wednesday, 21st February, 2018, **Last Visit to Site:** Wednesday, 21st February, 2018

Intro

This document is a summary of findings relating to asbestos analytical works at **St Cadocs Hospital, Lodge Road, Caerleon, NP18 3XQ** from **Wednesday, 21st February, 2018** to **Wednesday, 21st February, 2018**. It is intended to give an overview of testing and must be read only in conjunction with the certificates it references. The document should never be read in isolation as asbestos analysts reports often contain additional notes and advice that should be referred to.













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Furthermore, this document contains a summary of analyst notes and comments made in relation to works at this site.

Please note this document may contain findings from more than one analyst on more than one date.

Key to Air-Test Icons

To aid ease of reading the following icons have been used in this document to reference commonly undertaken activities.

-  Clearance Stage 1
-  Clearance Stage 2
-  Clearance Stage 3
-  Clearance Stage 4
-  DCU Stage 2
-  DCU Stage 3
-  Reassurance
-  Background
-  Leak Testing
-  Personal
-  Smoke Test Witness
-  Report Acknowledgement

A **WARNING** is used by the analyst to draw the readers attention to a particular area of the report.

Overview of Works

To view a complete air-certificate, follow the relevent link

Certificate: Pilmawr ward external windows		Building: St cadocs			Level: 0		Passed	
Type	Test-ID	Start Time	End Time	Date	Operative	# Samples		
View the Full Certificate Here: http://web.lucion.co.uk/air_cert/40809?s=d20ca67b2503ce8f330f821c0e30bd71								
Leak Testing	247750-1			21-02-2018	Paul Crocker	4		
Report Acknowledgement	247750-3			21-02-2018	Paul Crocker	--		
Personal	247750-2			21-02-2018	Paul Crocker	1		



Attachments

The following documents accompany this report and should be regarded as an integral part of this report.

They can be downloaded from <http://web.lucion.co.uk/reports/247750/attachments>.

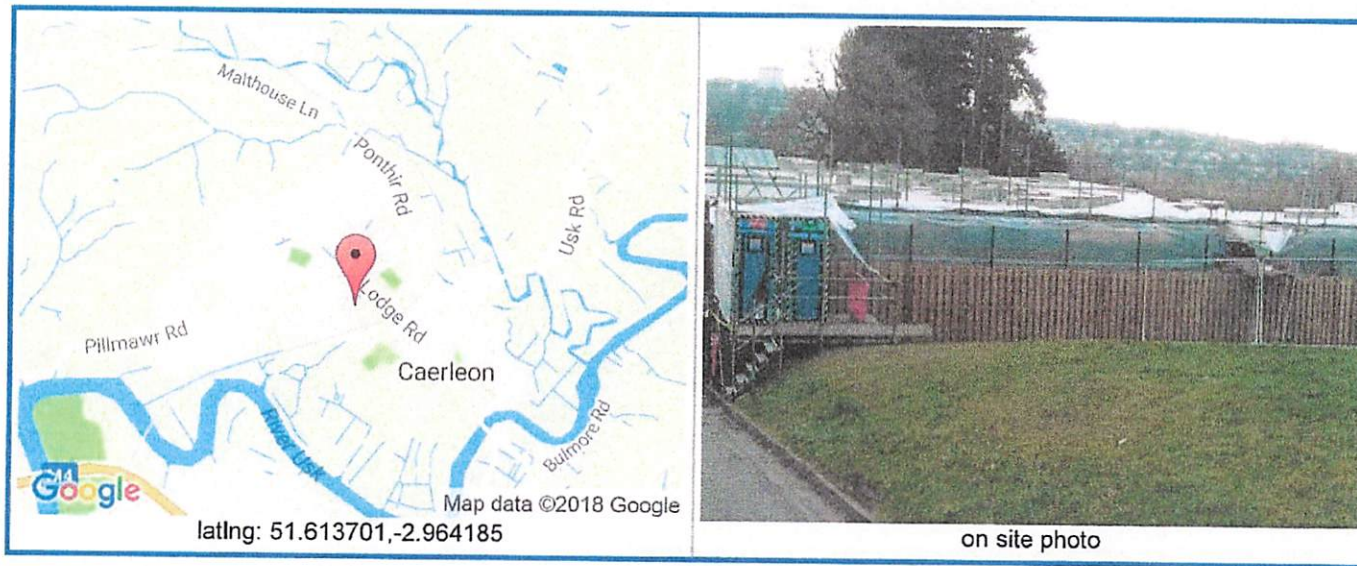
- Method Statement [http://web.lucion.co.uk/method_statements/247750?s=7e6ed501468a4b03e8b50dba7d291ee8]
- Risk Assessment [http://web.lucion.co.uk/risk_assessment/247750?s=851802ea2c10c54a61a5f36e1f8d536f]

Asbestos Analyst's Job Summary Report

Job Ref No: 247750, Account Ref No: 18091, Contract Ref No: 33101

St Cadocs Hospital, Lodge Road, Caerleon, NP18 3XQ

Title: Air monitoring to Glenusk Wing Fascia removal works by MCL, **Including:** External Fascia, **Excluding:** All other areas



Passed Certificates	Failed Certificates
2	0

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Overview of Works

To view a complete air-certificate, follow the relevant link

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Type	Test-ID	Start Time	End Time	Date	Operative	# Samples		
Leak Testing	247750-1			21-02-2018	Paul Crocker	4		
Report Acknowledgement	247750-3			21-02-2018	Paul Crocker	--		
Personal	247750-2			21-02-2018	Paul Crocker	1		

Certificate: Phase 2 - Removal Of AIB Facia		Building: St Cadoc's - Pilmawr Ward			Level: 0		Passed	
View the Full Certificate Here: http://web.lucion.co.uk/air_cert/40935?s=63ab3c234da1d9c9d8e27be05ff4a7c1								
Type	Test-ID	Start Time	End Time	Date	Operative	# Samples		
Clearance Stage 1	247750-4	10:30:00	10:45:00	23-02-2018	Adam Bailey	--	Passed	
Clearance Stage 2	247750-5	10:50:00	11:45:00	23-02-2018	Adam Bailey	--	Passed	
Clearance Stage 3	247750-6	11:50:00	12:45:00	23-02-2018	Adam Bailey	4	Passed	
Clearance Stage 4	247750-7	14:30:00	14:45:00	23-02-2018	Adam Bailey	--	Passed	
Report Acknowledgement	247750-8			23-02-2018	Adam Bailey	--		

Job Notes

Operative	Note	Date
 <p>Adam Bailey <i>Surveyor / Analyst</i></p>	Daily Site log - Lucion arrives on site - 4 x MCL on site - Supervisor informs Lucion that area is ready for a 4sc - stage 1 satisfactory - stage 2 Satisfactory. Minor cleaning required - stage 3 satisfactory - stage 4 Satisfactory - Lucion and MCL leave site	Friday, 23rd February, 2018

Attachments

The following documents accompany this report and should be regarded as an integral part of this report.

They can be downloaded from <http://web.lucion.co.uk/reports/247750/attachments>.

- Method Statement [http://web.lucion.co.uk/method_statements/247750?s=7e6ed501468a4b03e8b50dba7d291ee8]
- Risk Assessment [http://web.lucion.co.uk/risk_assessment/247750?s=851802ea2c10c54a61a5f36e1f8d536f]