



2719

AIR MONITORING TEST REPORT



Client Details	ASDA Stores Ltd	Project Number:	P-310908
	ASDA House, Southbank, Great Wilson Street, Leeds, LS11 5AD	Shift Number:	14
		Certificate Number:	20181108/SCA/001
Site Address	Ferring (4792), Littlehampton Road, Ferring, Worthing, BN12 6PN	Issued Date:	09/11/2018 12:30
		Issued by (print):	Stephanie Cave
		Issued by (signature):	

Environmental Essentials' Issuing Laboratory

Lab L6, Unit C Faraday Court, Faraday Road, Crawley, West Sussex, RH10 9PU

Four stage site clearance procedures, air monitoring and fibre counting are undertaken in accordance with Environmental Essentials' in-house procedures which are based on the methodologies specified within HSE document HSG 248 Asbestos: The analysts' guide for sampling, analysis and clearance procedures.

All air tests will have one of the following suffix codes which will indicate the purpose of the test:

Sample Type B – Background Testing.

This testing is undertaken to establish a background level of airborne fibres prior to any remediation works being carried out.

Sample Type L – Leak Testing.

This testing is undertaken during works involving asbestos around the perimeter of a 'live' removal enclosure, in order to assess the effectiveness of control measures in place in particular the enclosure itself. Usually a sample of at least 480 litres of air will be taken, however shorter sampling periods or "pooled" sampling strategies may be adopted if the analyst suspects an enclosure breach, for example.

Sample Type C – Clearance Testing.

This testing is undertaken following the removal or encapsulation of asbestos materials within an enclosure in order to ascertain the quantification of airborne fibres compared with the clearance indicator level of 0.01 f/ml. At least 480 litres of air must be taken per sample. A clearance test will also be undertaken when assessing the suitability of a decontamination unit following completion of works.

For an area to be deemed as suitable for normal occupancy following asbestos remediation, at least 80% of the air test results must be below the clearance indicator level, whilst all results must be below 0.015 f/ml.

Sample Type R – Reassurance Testing.

This testing is undertaken in certain circumstances to confirm that airborne fibre levels are below 0.01 f/ml. For example, following the removal of an asbestos removal enclosure or as an assessment of an area for continued normal occupancy. At least 480 litres of air must be taken per sample.

Sample Type A – Personal Assessment Testing.

This testing will be undertaken during abatement works involving asbestos in order to assess the suitability of the respiratory protective equipment being used and also the effectiveness of the dust suppression methods in place. At least 40 litres of air must be sampled and the quantification limit will be calculated accordingly.

Sample Type P – Personal Compliance Testing.

This testing is undertaken in order to assess whether or not personal exposures are in compliance with the 4-hour Control Limit as defined within the ACOP L143 – Control of Asbestos Regulations (CAR) 2012.

Sample Type FB – Field Blank.

Field blanks are generated from satisfactory filter batches and treated in the same way as filters used for air sampling but without any air being drawn through them. In the event of elevated fibre counts on air samples, a field blank will be counted in order to exclude the possibility of contamination causing the elevated fibre count.

This test report may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

Air sampling and fibre counting fall within Environmental Essentials' scope of UKAS accreditation however, opinions and interpretations that may be expressed within this report are outside the scope of UKAS accreditation.

Certificate of cleanliness following works with non-licensed materials which may have been undertaken and witnessed as part of this project are not covered by Environmental Essentials' scope of UKAS accreditation.



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CERTIFICATE OF REOCCUPATION



Project Number:	P-310908	Certificate Number:	20181108/SCA/001
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Client Name and Address	ASDA Stores Ltd ASDA House, Southbank, Great Wilson Street, Leeds, LS11 5AD	Asbestos Removal Contractor Name and Address	RHODAR LIMITED UNIT C ASTRA PARK, PARKSIDE LANE, LEEDS, WEST YORKSHIRE, LS11 5SZ
Site Name and Address	Ferring (4792), Littlehampton Road, Ferring, Worthing, BN12 6PN		
Work Location: Asda Ferring PFS			
Description of the project and of the asbestos materials removed and/or remediated: Removal of ACM debris to excavation; environmental clean of exposed section of buried wall within excavation. Works carried out under fully-controlled conditions.			
Description and location of asbestos materials that are being retained: Potential contamination to deeper levels of soil within excavation.			

CONTRACTOR CONFIRMATION OF ENCLOSURE TESTING AND INSPECTION

Can the LARC Supervisor confirm that smoke integrity and leakage testing were carried out and are records available to confirm?	Yes
Comments:	
Has the LARC Supervisor confirmed that the enclosure inspection (as required with HSG247) has been completed and is satisfactory?	Yes

LARC ACKNOWLEDGEMENT

I can confirm that the enclosure has been inspected and is suitable for the analyst to commence with the Four Stage Clearance Procedure

In order for the work area to be handed back to the Client and deemed as suitable for reoccupancy, all four stages for the Certificate of Reoccupation must be completed satisfactory.

The Four Stage Clearance procedure and accompanying Air Monitoring and Fibre Counting have been undertaken in accordance with Environmental Essentials' in-house procedures, which are based upon the methodologies specified within HSE document HSG248: The analysts' guide for sampling, analysis and clearance procedures.

ARC Name: Dave Harman	ARC Signature: 	Date: 08-11-2018 09:05
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STAGE 1: PRELIMINARY INSPECTION	Stage 1 Start: 08-11-2018 09:05
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Plan of work checked? Can the ARC confirm that the work carried out matches that specified within the scope of work? (Record any differences and/or ACM's that are known to remain)	Yes
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Comments:

DCU checked - operational and fit for purpose	Yes	Enclosure operational and intact?	Yes	Vision panel/CCTV present?	Yes	Transit and waste route free from obvious debris?	Yes
Enclosure lighting adequate?	Yes	Suitable Access Equipment present within the enclosure?	Yes	Areas around enclosure, DCU and skip free from obvious debris?	Yes	Suitable Decontamination equipment in airlock?	Yes

Result of Preliminary Inspection (Stage 1)	PASS
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Comments: Satisfactory

Analyst Name(s): Stephanie Cave	Analyst Signature(s): 	Stage 1 Finish: 08-11-2018 09:15
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CERTIFICATE OF REOCCUPATION



Project Number:	P-310908	Certificate Number:	20181108/SCA/001
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STAGE 2: VISUAL INSPECTION	Stage 2 Start: 08/11/2018 09:40
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Airlock/baglock and enclosure are free from waste, materials and unnecessary equipment	Yes	Enclosure and airlocks following inspection are visibly clean of debris and dust within the limits of accessibility	Yes	Asbestos materials have been removed, encapsulated or enclosed as per the plan of work	Yes	Surfaces inside the enclosure show no signs of debris or fine settled dust	Yes
Asbestos materials that are to remain within the enclosure are in a safe condition and are marked on the site diagram	Yes	Any evidence of the use of sealant or lock down spray that was not instructed?	No	The enclosure is dry and is suitable for Stage 3 Air Testing	Yes	The inspection was undertaken in the presence of ARC Operative(s)	Yes

The following items/areas were sheeted over and excluded from the inspection:

N/A

Result of Visual Inspection (Stage 2)	PASS
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Comments:

Enclosure is an external excavation, comprised almost entirely of soil. The top layers of soil have been removed and any visible ACM debris removed, but this is unable to be considered 'clean' in the usual sense. The remainder of the soil is planned to be excavated under locally-controlled conditions. There is a partially-buried wall within the excavation which has been cleaned of any loose debris to a depth of 1m. More of the wall will be uncovered during continued excavation works, and this has not been checked at this time. Area has been cleaned as far as reasonably practicable.

Analyst Name(s): Stephanie Cave	Analyst Signature(s):	Stage 2 Finish: 08/11/2018 10:15	Visual Inspection Duration: 35 mins
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STAGE 3: CLEARANCE AIR MONITORING
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Volume of the enclosure(m3)	105	Disturbance method	Hand Brushed	All areas dry	Yes
Number of air samples	3	Disturbance duration	4.5mins	NPU's deactivated and pre filter changed and capped	Yes

Result of Clearance Air Monitoring (Stage 3)	PASS
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Comments:

At time of testing, air monitoring results were below limit of quantification.

Analyst Name(s): Stephanie Cave	Analyst Signature(s):	Date & Time:	08/11/2018 11:55
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CERTIFICATE OF REOCCUPATION



Project Number:	P-310908	Certificate Number:	20181108/SCA/001
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STAGE 4: FINAL ASSESSMENT

The enclosure has been dismantled and all associated equipment and materials have been removed	Yes	Former work area is visibly free of obvious asbestos debris, materials and waste	Yes	Reassurance air tests conducted? (If yes reference air test certificate below)	No
Transit and waste routes and the immediate surrounding areas are free of obvious asbestos debris, materials and waste	Yes	ACM's that are remaining in situ are in safe condition and are detailed within the certificate of reoccupation	Yes	Photographs taken of the former work areas and transit and waste routes	Yes

Result of Final Assessment (Stage 4)	PASS
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Comments:

All enclosure materials have been removed, as well as the scaffolding setup around the work area. DCU and skips remains on site to be removed at a later time.

Analyst Name(s): Stephanie Cave	Analyst Signature(s): 	Stage 4 Finish: 09/11/2018 12:30
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ACKNOWLEDGEMENT

I have been advised by Stephanie Cave of Environmental Essentials Ltd that the Certificate of Reoccupation can be issued with successfully passing all applicable stages

Analyst Name(s): Stephanie Cave	Analyst Signature(s): 	Date: 09/11/2018 12:30
ARC Supervisor Name: Dave Harman	ARC Supervisor Signature: 	



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AIR MONITORING TEST CERTIFICATE



Client Name and Address:	ASDA Stores Ltd, ASDA House, Southbank, Great Wilson Street, Leeds, LS11 5AD	Project Number:	P-310908
Site Address:	Ferring (4792), Littlehampton Road, Ferring, Worthing, BN12 6PN	Date:	08/11/2018
Work Location:	Asda Ferring PFS	Certificate Number:	20181108/SCA/001

Microscope No:	M47	NPL Test Slide	6925	Stage Micrometer:	SM49	Timepiece:	DB65
Testing Kit No:	A52	Test band observed:	5	Graticule Diameter(μm):	100.0	Exposed filter diameter:	22.0
Flow meter:	F42 / LF42	Barometer/Thermometer:	DB65	Pressure (mb):	1009	Temperature (°C):	18

Sample Number	Sample Type	Pump No	Cowl No	Sample Location	Sampling Times		Duration (mins)	Flow Rates (l/min)		Mean Flow Rate (l/min)	Sample Volume (litres)	Fibres Counted	Graticule Fields	LoQ* (f/ml)	Calculated Result (f/ml)	Reported Result (f/ml)
					Start	Finish		Start	Finish							
001	C	P340	340	Within enclosure	10:17	11:17	60	8.0	8.0	8.00	480	3	200	0.01	0.0015	< 0.01
002	C	P345	345	Within enclosure	10:17	11:17	60	8.0	8.0	8.00	480	4.5	200	0.01	0.0023	< 0.01
003	C	P346	346	Within enclosure	10:17	11:17	60	8.0	8.0	8.00	480	4	200	0.01	0.002	< 0.01
004	FB	-	FB52	With sample 003C	-	-	-	-	-	-	-	Not Counted	Not Counted	-	-	-

*LoQ = Limit of quantification

Comments:																
At time of testing, air monitoring results were below limit of quantification.																
Analyst(s) (print):	Stephanie Cave	Signature(s):											Date:	08/11/2018		

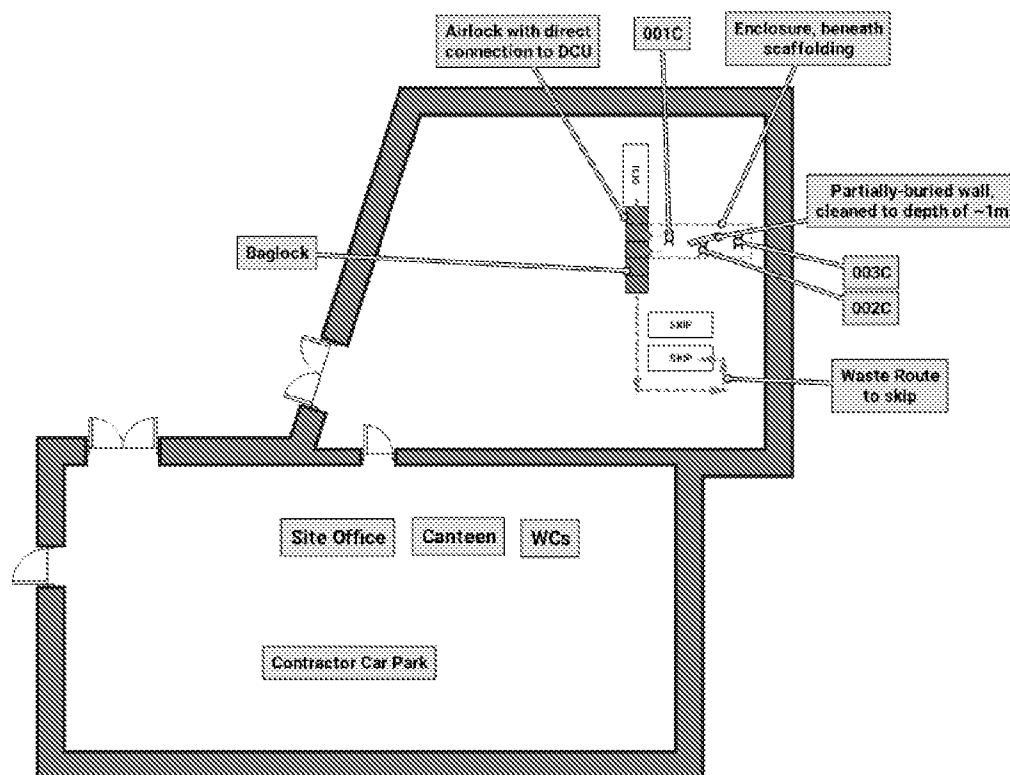
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SITE LAYOUT

Client Name and Address:	ASDA Stores Ltd, ASDA House, Southbank, Great Wilson Street, Leeds, LS11 5AD	Project Number:	P-310908
Site Address:	Ferring (4792), Littlehampton Road, Ferring, Worthing, BN12 6PN	Certificate Number:	20181108/SCA/001

NB DIAGRAM FOR CERTIFICATE OF RE-OCCUPATION MUST BE INCLUSIVE OF APPROXIMATE ENCLOSURE DIMENSIONS



KEY FOR DIAGRAM

	Air Locks		Polythene Sheeting		Waste Skip		Viewing Panels
	Negative Pressure Unit		Flexible ducting		Asbestos Contractor Vehicle		Asbestos remaining
	Transit Route		Decontamination Unit		Sample Locations		

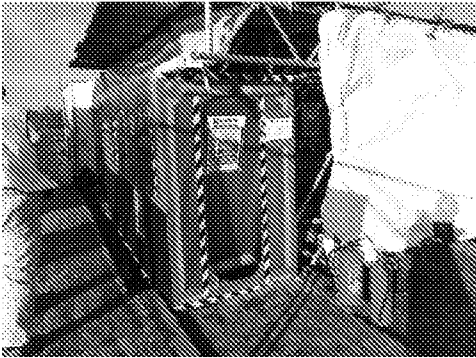
This diagram is only representative of the site layout and is not drawn to scale.

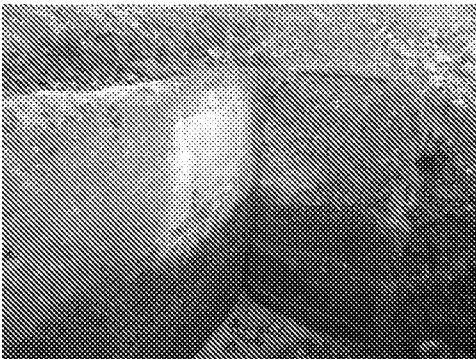
Analyst Name(s):	Stephanie Cave	ARC Supervisor Name:	Dave Harman	Date:
Analyst Signature(s):		ARC Supervisor Signature:		08/11/2018

Quality Doc No: M/Doc73 - 4 - 041018

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	Baglock to enclosure. Airlock is behind it, with direct connection to DCU. Enclosure continues to the right, not visible due to scaffolding and white sheeting to protect the enclosure from the weather.
	DCU with direct connection to airlock.
	NPU to enclosure, beneath scaffolding.
	Skips for use in removal works. Enclosed skip on the right is for use in fully-controlled works and the open skip on the left will be used in continued soil removal works.

Project Number:	P-310908	Certificate Number:	20181108/SCA/001	Analyst Name:	Stephanie Cave
		View within enclosure at Stage 2 visual inspection. Enclosure is comprised of an excavation, so the entire floor is soil, which has been cleaned of debris. There is a partially-buried wall in the centre, which has also been cleaned to a depth of 1m (the currently visible portion).			
		Buried wall within excavation. Cleaned as far as reasonably practicable to a depth of ~1m.			
		Work area at Stage 4, following removal of enclosure materials but prior to removal of the scaffolding.			
		Work area after completion of works. All enclosure materials removed; scaffolding removed. DCU and skips remain in place.			