2719

AIR MONITORING TEST REPORT

Client Details	Manchester Metropolitan University	Project Number:	P-369565
	99 Oxford Road, Manchester, M1 7EL, ,	Shift Number:	1
		Certificate Number:	20200521/JLO/001
Site Address	Ryebank Fields, Chorlton-cum-Hardy, Manchester, M21 9NS	Issued Date:	21/05/2020
		Issued by (print):	Jordan Longshaw
		Issued by (signature):	

Environmental Essentials' Issuing Laboratory

Lab L1, Unit 3 Arlington Court, Silverdale Enterprise Park, Cannel Row, Staffordshire ST5 6SS

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 satifactory 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 possibilty of contamination causing the elevated fibre count.

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.

UKAS TESTING
2719

AIR MONITORING TEST CERTIFICATE

environmental essentials

Client Name and Address:	Manchester Metropolitan University, 99 Oxford Road, Manchester, M1 7EL, ,	Project Number:	P-369565
Site Address:	Ryebank Fields, Chorlton-cum-Hardy, Manchester, M21 9NS	Date:	21/05/2020
Work Location:	Field areas, as per aerial photo demarcation	Certificate Number:	20200521/JLO/001

Microscope No:	M39	NPL Test Slide	3558	Stage Micrometer:	SM42	Timepiece:	DB44
Testing Kit No:	A39	Test band observed:	5	Graticule Diameter(µm):	100	Exposed filter diameter:	22.0
Flow meter:	F35A & LF35A	Barometer/Thermometer:	DB44	Pressure (mb):	1011.7	Temperature (°C):	13.8

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**	Reported Result (f/ml)
					Start	Finish		Start	Finish							
001	R	252	JLO01	External - Field areas, as per aerial photo demarcation - Front left side of parking space	09:23	10:23	60	8.0	8.0	8.00	480	1.0	200	0.01	0.0005	< 0.01
002	R	253	JLO02	External - Field areas, as per aerial photo demarcation - Front middle of parking space	09:24	10:24	60	8.0	8.0	8.00	480	3.5	200	0.01	0.0018	< 0.01
003	R	256	JLO03	External - Field areas, as per aerial photo demarcation - Front right side of parking space	09:25	10:25	60	8.0	8.0	8.00	480	1.5	200	0.01	0.0008	< 0.01
004	A	235	JLO04	External - Field areas, as per aerial photo demarcation - Attached to OPS operative Steve Murray wearing Cat 3 Type 5 overalls and half face mask while carrying out the removal of suspected asbestos cement to the external grounds.	09:26	11:46	140	2.0	2.0	2.00	280	1.5	200	0.02	0.0013	< 0.02
005	FB	-	JLOFB	Taken alongside 001R	-	-	-	-	-	-	-	Not Counted	Not Counted	-	-	-
006	R	252	JLO05	External - Field areas, as per aerial photo demarcation - Rear left of parking space	10:33	11:33	60	8.0	8.0	8.00	480	1.5	200	0.01	0.0008	< 0.01
007	R	253	JLO06	External - Field areas, as per aerial photo demarcation - Rear middle of parking space	10:34	11:34	60	8.0	8.0	8.00	480	2.0	200	0.01	0.001	< 0.01
008	R	257	JLO07	External - Field areas, as per aerial photo demarcation - Rear right of parking space	10:35	11:35	60	8.0	8.0	8.00	480	2.5	200	0.01	0.0013	< 0.01
009	R	252	JLO08	External - Field areas, as per aerial photo demarcation - Left side of field	12:31	13:31	60	8.0	8.0	8.00	480	2.5	200	0.01	0.0013	< 0.01
010	R	253	JLO09	External - Field areas, as per aerial photo demarcation - Middle of field	12:32	13:32	60	8.0	8.0	8.00	480	1.5	200	0.01	0.0008	< 0.01
011	R	257	JLO10	External - Field areas, as per aerial photo demarcation - Right side of field	12:33	13:33	60	8.0	8.0	8.00	480	2.5	200	0.01	0.0013	< 0.01
012	R	252	JLO01	External - Field areas, as per aerial photo demarcation - Rear right side of field	13:35	14:35	60	8.0	8.0	8.00	480	2.5	200	0.01	0.0013	< 0.01
013	R	253	JLO02	External - Field areas, as per aerial photo demarcation - Rear left side of field	13:36	14:36	60	8.0	8.0	8.00	480	2.0	200	0.01	0.001	< 0.01
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

*LoQ = Limit of quantification **Calculated result is provided for information only and is not intended to imply any greater accuracy of result than the stated limit of quantification.

Comments:
Asbestos cement debris has been identified by a resident previous to commencement of these works. MMU have since fenced the fields off to restrict access and OPS have been commissioned to undertake a clean up of any suspect non-licensed materials, as far as reasonably practicable. OPS operative Steve Murray has sectioned off the field into 5 sections so each section can be remediated on a daily basis. Reassurance and personal assessment air tests were undertaken during the removal of cement debris and remediation / making safe work to seal over suspect insulation to the external ground areas, within this section of the field. All results proved to be satisfactory being below the limit of quantification and below the mask protection factor of the OPS operative(s) and OPS estimated exposure levels in the plan of work.

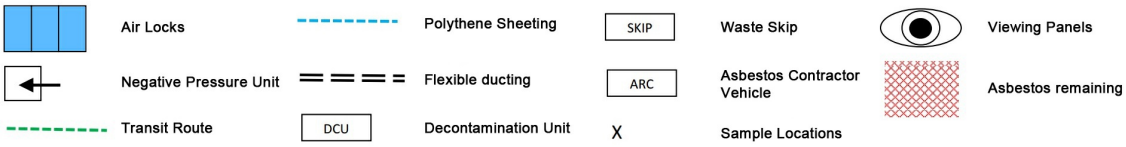
Analyst(s) (print):	Jordan Longshaw	Signature(s):		Date:	21/05/2020 17:20

SITE LAYOUT

Client Name and Address:	Manchester Metropolitan University, 99 Oxford Road, Manchester, M1 7EL, ,	Project Number:	P-369565
Site Address:	Ryebank Fields, Chorlton-cum-Hardy, Manchester, M21 9NS	Certificate Number:	20200521/JLO/001

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

KEY FOR DIAGRAM



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

Analyst Name(s):	Jordan Longshaw	ARC Supervisor Name:	N/A	Date: 21/05/2020
Analyst Signature(s):		ARC Supervisor Signature:	N/A	

2719

AIR MONITORING TEST REPORT

Client Details	Manchester Metropolitan University	Project Number:	P-369565
	99 Oxford Road, Manchester, M1 7EL, ,	Shift Number:	2
		Certificate Number:	20200522/JLO/001
Site Address	Ryebank Fields, Chorlton-cum-Hardy, Manchester, M21 9NS	Issued Date:	22/05/2020
		Issued by (print):	Jordan Longshaw
		Issued by (signature):	

Environmental Essentials' Issuing Laboratory

Lab L1, Unit 3 Arlington Court, Silverdale Enterprise Park, Cannel Row, Staffordshire ST5 6SS

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 satifactory 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 possibilty of contamination causing the elevated fibre count.

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.

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UKAS TESTING
2719

AIR MONITORING TEST CERTIFICATE

environmental essentials

Client Name and Address:	Manchester Metropolitan University, 99 Oxford Road, Manchester, M1 7EL, ,	Project Number:	P-369565
Site Address:	Ryebank Fields, Chorlton-cum-Hardy, Manchester, M21 9NS	Date:	22/05/2020
Work Location:	Field areas, as per aerial photo demarcation	Certificate Number:	20200522/JLO/001

Microscope No:	M39	NPL Test Slide	3558	Stage Micrometer:	SM42	Timepiece:	DB44
Testing Kit No:	A39	Test band observed:	5	Graticule Diameter(µm):	100	Exposed filter diameter:	22.0
Flow meter:	F35A/LF35A	Barometer/Thermometer:	DB44	Pressure (mb):	1021.5	Temperature (°C):	15.6

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**	Reported Result (f/ml)
					Start	Finish		Start	Finish							
001	R	252	JLO01	External - Field areas, as per aerial photo demarcation - Front left side of field	08:41	09:29	48	10.0	10.0	10.00	480	1.5	200	0.01	0.0008	< 0.01
002	R	253	JLO02	External - Field areas, as per aerial photo demarcation - Front middle of field	08:42	09:30	48	10.0	10.0	10.00	480	2.5	200	0.01	0.0013	< 0.01
003	R	257	JLO03	External - Field areas, as per aerial photo demarcation - Front right side of field	08:43	09:31	48	10.0	10.0	10.00	480	1.5	200	0.01	0.0008	< 0.01
004	A	235	JLO04	External - Field areas, as per aerial photo demarcation - Attached to OPS operative Steve Murray wearing Cat 3 Type 5 overalls and half face mask while carrying out the removal of suspected asbestos cement to the external grounds.	08:50	11:47	177	2.0	2.0	2.00	354	1.5	200	0.01	0.001	< 0.01
005	FB	-	JLOFB	Taken alongside 001R	-	-	-	-	-	-	-	Not Counted	Not Counted	-	-	-
006	R	253	JLO05	External - Field areas, as per aerial photo demarcation - Middle left side of field	09:55	10:43	48	10.0	10.0	10.00	480	1.0	200	0.01	0.0005	< 0.01
007	R	252	JLO06	External - Field areas, as per aerial photo demarcation - Middle of field	09:56	10:44	48	10.0	10.0	10.00	480	2.0	200	0.01	0.001	< 0.01
008	R	253	JLO08	External - Field areas, as per aerial photo demarcation - Middle right side of field	10:58	11:46	48	10.0	10.0	10.00	480	2.0	200	0.01	0.001	< 0.01
009	R	253	JLO09	External - Field areas, as per aerial photo demarcation - Rear left side of field	10:59	11:47	48	10.0	10.0	10.00	480	3.0	200	0.01	0.0015	< 0.01
010	R	252	JLO01	External - Field areas, as per aerial photo demarcation - Rear middle of field	12:52	13:40	48	10.0	10.0	10.00	480	1.5	200	0.01	0.0008	< 0.01
011	R	253	JLO02	External - Field areas, as per aerial photo demarcation - Rear right side of field	12:53	13:41	48	10.0	10.0	10.00	480	2.0	200	0.01	0.001	< 0.01
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

*LoQ = Limit of quantification **Calculated result is provided for information only and is not intended to imply any greater accuracy of result than the stated limit of quantification.

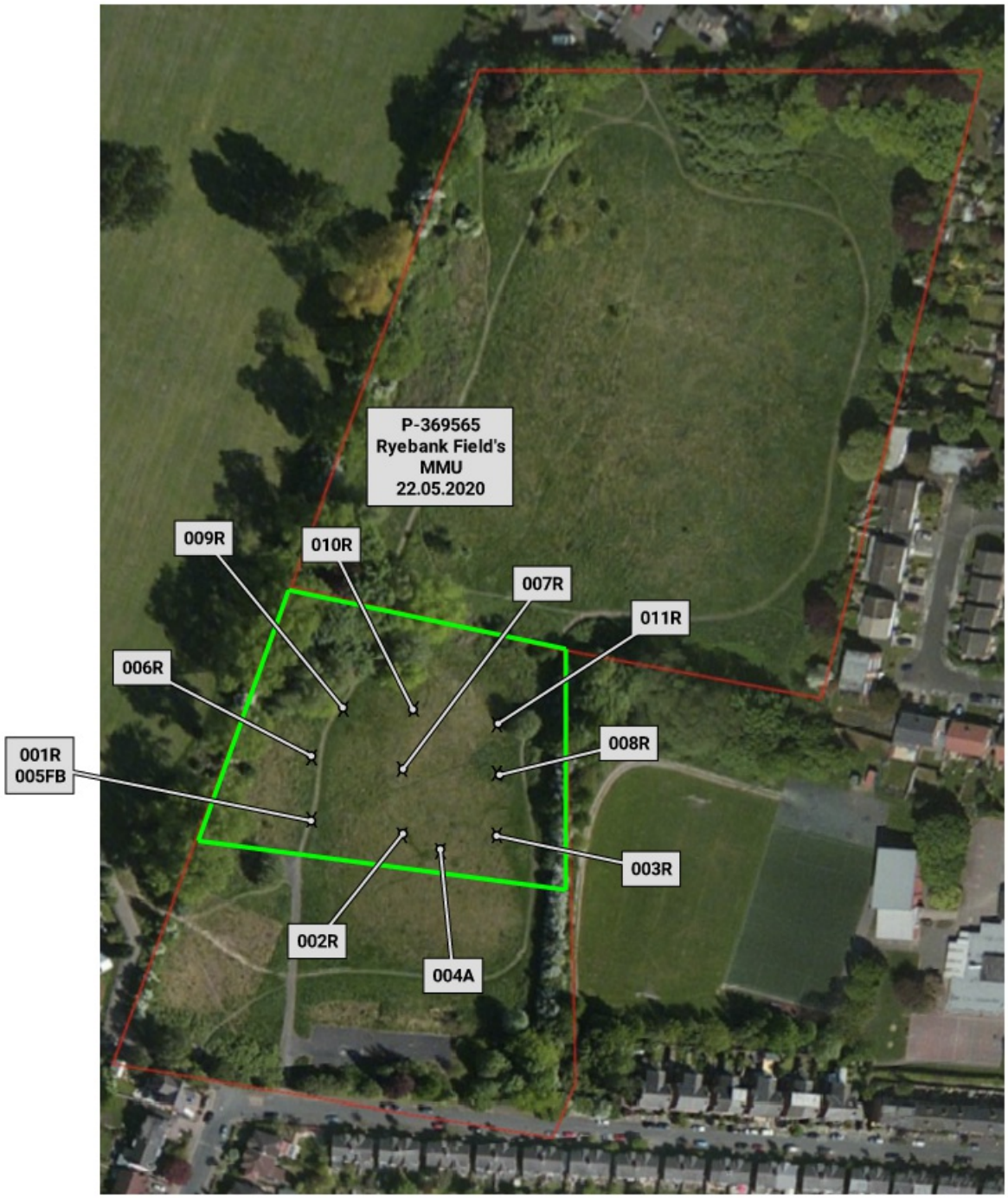
Comments:
Asbestos cement debris has been identified by a resident previous to commencement of these works. MMU have since fenced the fields off to restrict access and OPS have been commissioned to undertake a clean up of any suspect non-licensed materials, as far as reasonably practicable. OPS operative Steve Murray has sectioned off the field into 5 sections so each section can be remediated on a daily basis. Reassurance and personal assessment air tests were undertaken during the removal of cement debris and remediation / making safe work to seal over suspect insulation to the external ground areas, within this section of the field. All results proved to be satisfactory being below the limit of quantification and below the mask protection factor of the OPS operative(s) and OPS estimated exposure levels in the plan of work.

Analyst(s) (print):	Jordan Longshaw	Signature(s):		Date:	22/05/2020 17:30

SITE LAYOUT

Client Name and Address:	Manchester Metropolitan University, 99 Oxford Road, Manchester, M1 7EL, ,	Project Number:	P-369565
Site Address:	Ryebank Fields, Chorlton-cum-Hardy, Manchester, M21 9NS	Certificate Number:	20200522/JLO/001

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



KEY FOR DIAGRAM

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

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

Analyst Name(s):	Jordan Longshaw	ARC Supervisor Name:	N/A	Date: 22/05/2020
Analyst Signature(s):		ARC Supervisor Signature:	N/A	

2719

AIR MONITORING TEST REPORT

Client Details	Manchester Metropolitan University	Project Number:	P-369565
	99 Oxford Road, Manchester, M1 7EL, ,	Shift Number:	3
		Certificate Number:	20200526/JLO/001
Site Address	Ryebank Fields, Chorlton-cum-Hardy, Manchester, M21 9NS	Issued Date:	26/05/2020
		Issued by (print):	Jordan Longshaw
		Issued by (signature):	

Environmental Essentials' Issuing Laboratory

Lab L1, Unit 3 Arlington Court, Silverdale Enterprise Park, Cannel Row, Staffordshire ST5 6SS

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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.
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UKAS TESTING
2719

AIR MONITORING TEST CERTIFICATE

environmental essentials

Client Name and Address:	Manchester Metropolitan University, 99 Oxford Road, Manchester, M1 7EL, ,	Project Number:	P-369565
Site Address:	Ryebank Fields, Chorlton-cum-Hardy, Manchester, M21 9NS	Date:	26/05/2020
Work Location:	Field areas, as per aerial photo demarcation	Certificate Number:	20200526/JLO/001

Microscope No:	M39	NPL Test Slide	3558	Stage Micrometer:	SM42	Timepiece:	DB44
Testing Kit No:	A39	Test band observed:	5	Graticule Diameter(µm):	100	Exposed filter diameter:	22.0
Flow meter:	F35A/LF35A	Barometer/Thermometer:	DB44	Pressure (mb):	1033.1	Temperature (°C):	16.3

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**	Reported Result (f/ml)
					Start	Finish		Start	Finish							
001	R	252	JLO01	External - Field areas, as per aerial photo demarcation - Front left side of field	09:48	10:36	48	10.0	10.0	10.00	480	1.5	200	0.01	0.0008	< 0.01
002	R	253	JLO02	External - Field areas, as per aerial photo demarcation - Front middle side of field	09:49	10:37	48	10.0	10.0	10.00	480	2.0	200	0.01	0.001	< 0.01
003	R	256	JLO03	External - Field areas, as per aerial photo demarcation - Front right side of field	09:50	10:38	48	10.0	10.0	10.00	480	1.5	200	0.01	0.0008	< 0.01
004	R	257	JLO04	External - Field areas, as per aerial photo demarcation - Middle left side of field	09:51	10:39	48	10.0	10.0	10.00	480	2.0	200	0.01	0.001	< 0.01
005	FB	-	JLOFB	Taken alongside 001R	-	-	-	-	-	-	-	Not Counted	Not Counted	-	-	-
006	R	252	JLO05	External - Field areas, as per aerial photo demarcation - Middle of the field	10:49	11:37	48	10.0	10.0	10.00	480	1.5	200	0.01	0.0008	< 0.01
007	R	256	JLO06	External - Field areas, as per aerial photo demarcation - Middle right side of field	10:50	11:38	48	10.0	10.0	10.00	480	2.0	200	0.01	0.001	< 0.01
008	R	200	JLO07	External - Field areas, as per aerial photo demarcation - Rear left side of field	10:51	11:39	48	10.0	10.0	10.00	480	2.0	200	0.01	0.001	< 0.01
009	R	252	JLO01	External - Field areas, as per aerial photo demarcation - Rear middle of field	13:00	13:48	48	10.0	10.0	10.00	480	2.0	200	0.01	0.001	< 0.01
010	R	256	JLO02	External - Field areas, as per aerial photo demarcation - Rear right side of field	13:01	13:49	48	10.0	10.0	10.00	480	1.5	200	0.01	0.0008	< 0.01
011	A	235	JLO09	External - Field areas, as per aerial photo demarcation - Attached to OPS operative Steve Murray wearing Cat 3 Type 5 overalls and half face mask while carrying out the removal of suspected asbestos cement to the external grounds.	13:10	14:15	65	2.0	2.0	2.00	130	2.5	200	0.04	0.0047	< 0.04
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

*LoQ = Limit of quantification **Calculated result is provided for information only and is not intended to imply any greater accuracy of result than the stated limit of quantification.

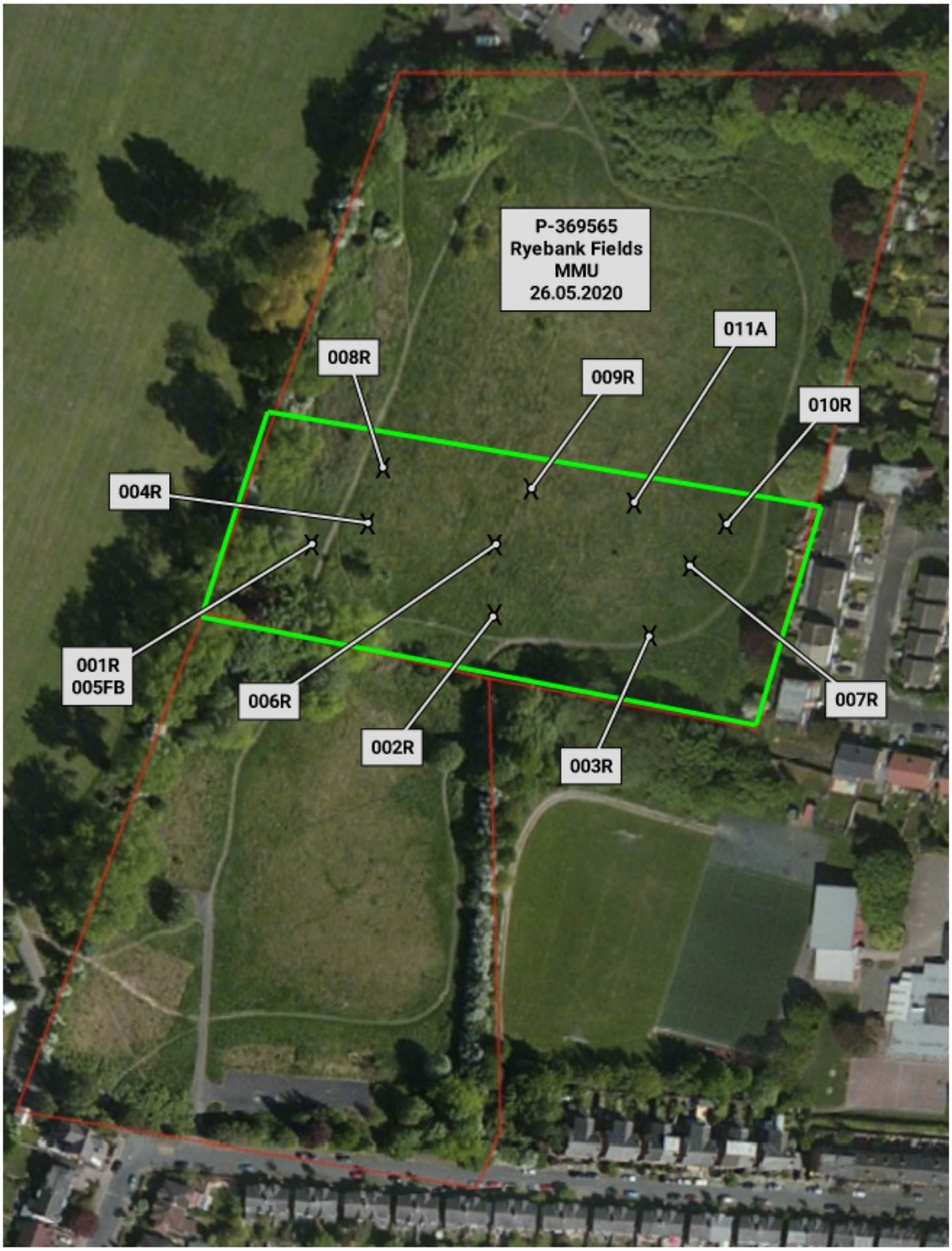
Comments:
Asbestos cement debris has been identified by a resident previous to commencement of these works. MMU have since fenced the fields off to restrict access and OPS have been commissioned to undertake a clean up of any suspect non-licensed materials, as far as reasonably practicable. OPS operative Steve Murray has sectioned off the field into 5 sections so each section can be remediated on a daily basis. Reassurance and personal assessment air tests were undertaken during the removal of cement debris and remediation / making safe work to seal over suspect insulation to the external ground areas, within this section of the field. All results proved to be satisfactory being below the limit of quantification and below the mask protection factor of the OPS operative(s) and OPS estimated exposure levels in the plan of work.

Analyst(s) (print):	Jordan Longshaw	Signature(s):		Date:	26/05/2020 15:17

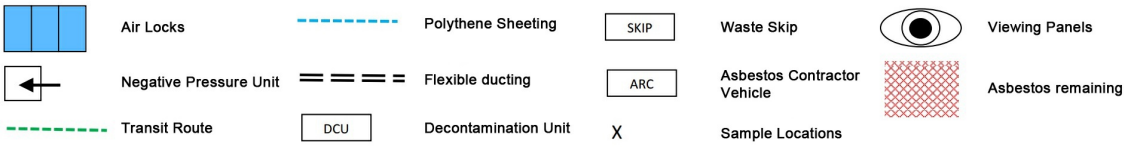
SITE LAYOUT

Client Name and Address:	Manchester Metropolitan University, 99 Oxford Road, Manchester, M1 7EL, ,	Project Number:	P-369565
Site Address:	Ryebank Fields, Chorlton-cum-Hardy, Manchester, M21 9NS	Certificate Number:	20200526/JLO/001

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



KEY FOR DIAGRAM



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

Analyst Name(s):	Jordan Longshaw	ARC Supervisor Name:	N/A	Date: 26/05/2020
Analyst Signature(s):		ARC Supervisor Signature:	N/A	

2719

AIR MONITORING TEST REPORT

Client Details	Manchester Metropolitan University	Project Number:	P-369565
	99 Oxford Road, Manchester, M1 7EL, ,	Shift Number:	4
		Certificate Number:	20200527/JLO/001
Site Address	Ryebank Fields, Chorlton-cum-Hardy, Manchester, M21 9NS	Issued Date:	27/05/2020
		Issued by (print):	Jordan Longshaw
		Issued by (signature):	

Environmental Essentials' Issuing Laboratory
Lab L1, Unit 3 Arlington Court, Silverdale Enterprise Park, Cannel Row, Staffordshire ST5 6SS

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 satifactory 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 possibilty of contamination causing the elevated fibre count.

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.

UKAS TESTING
2719

AIR MONITORING TEST CERTIFICATE

environmental essentials

Client Name and Address:	Manchester Metropolitan University, 99 Oxford Road, Manchester, M1 7EL, ,	Project Number:	P-369565
Site Address:	Ryebank Fields, Chorlton-cum-Hardy, Manchester, M21 9NS	Date:	27/05/2020
Work Location:	Field areas, as per aerial photo demarcation	Certificate Number:	20200527/JLO/001

Microscope No:	M39	NPL Test Slide	3558	Stage Micrometer:	SM42	Timepiece:	DB44
Testing Kit No:	A39	Test band observed:	5	Graticule Diameter(µm):	100	Exposed filter diameter:	22.0
Flow meter:	LF35A/F35A	Barometer/Thermometer:	DB44	Pressure (mb):	1028.7	Temperature (°C):	16.9

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**	Reported Result (f/ml)
					Start	Finish		Start	Finish							
001	R	200	JLO01	External - Field areas, as per aerial photo demarcation - Front left side of field	08:36	09:24	48	10.0	10.0	10.00	480	2.0	200	0.01	0.001	< 0.01
002	R	252	JLO02	External - Field areas, as per aerial photo demarcation - Front middle of field	08:37	09:25	48	10.0	10.0	10.00	480	1.5	200	0.01	0.0008	< 0.01
003	R	256	JLO03	External - Field areas, as per aerial photo demarcation - Front right side of field	08:38	09:26	48	10.0	10.0	10.00	480	2.0	200	0.01	0.001	< 0.01
004	FB	-	JLOFB	Taken alongside 001R	-	-	-	-	-	-	-	Not Counted	Not Counted	-	-	-
005	R	200	JLO04	External - Field areas, as per aerial photo demarcation - Middle right side of field	09:47	10:35	48	10.0	10.0	10.00	480	3.0	200	0.01	0.0015	< 0.01
006	R	252	JLO05	External - Field areas, as per aerial photo demarcation - Middle of field	09:48	10:36	48	10.0	10.0	10.00	480	1.5	200	0.01	0.0008	< 0.01
007	R	256	JLO06	External - Field areas, as per aerial photo demarcation - Middle left side of field	09:49	10:37	48	10.0	10.0	10.00	480	2.5	200	0.01	0.0013	< 0.01
008	R	200	JLO08	External - Field areas, as per aerial photo demarcation - Rear right side of field	12:28	13:16	48	10.0	10.0	10.00	480	2.5	200	0.01	0.0013	< 0.01
009	R	252	JLO09	External - Field areas, as per aerial photo demarcation - Rear middle of field	12:29	13:17	48	10.0	10.0	10.00	480	2.0	200	0.01	0.001	< 0.01
010	R	256	JLO10	External - Field areas, as per aerial photo demarcation - Rear left side of field	12:30	13:18	48	10.0	10.0	10.00	480	2.5	200	0.01	0.0013	< 0.01
011	A	235	JLO07	External - Field areas, as per aerial photo demarcation - Attached to OPS operative Steve Murray wearing Cat 3 Type 5 overalls and half face mask while carrying out the removal of suspected asbestos cement to the external grounds.	10:11	11:49	98	2.0	2.0	2.00	196	1.5	200	0.02	0.0019	< 0.02
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

*LoQ = Limit of quantification **Calculated result is provided for information only and is not intended to imply any greater accuracy of result than the stated limit of quantification.

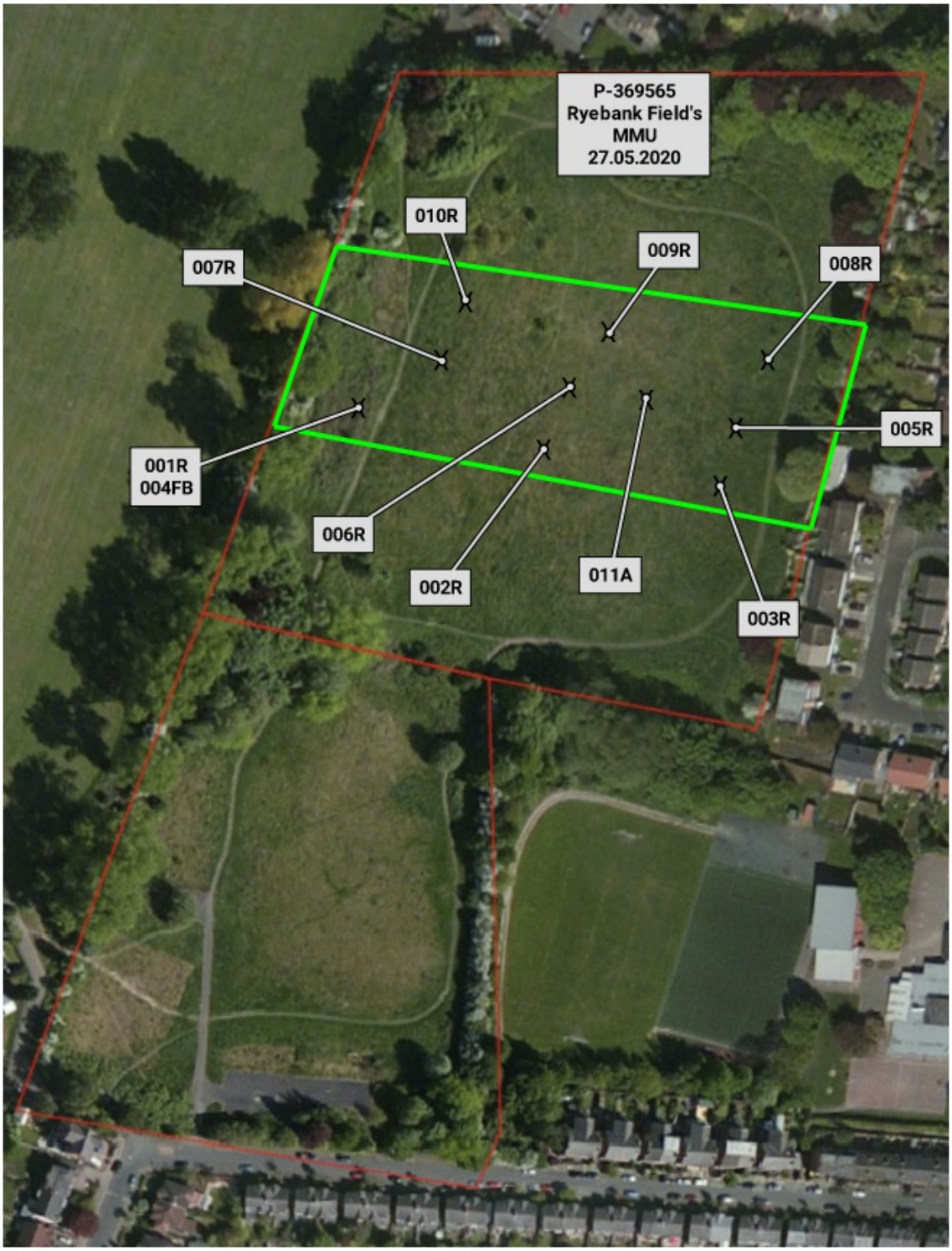
Comments:
Asbestos cement debris has been identified by a resident previous to commencement of these works. MMU have since fenced the fields off to restrict access and OPS have been commissioned to undertake a clean up of any suspect non-licensed materials, as far as reasonably practicable. OPS operative Steve Murray has sectioned off the field into 5 sections so each section can be remediated on a daily basis. Reassurance and personal assessment air tests were undertaken during the removal of cement debris and remediation / making safe work to seal over suspect insulation to the external ground areas, within this section of the field. All results proved to be satisfactory being below the limit of quantification and below the mask protection factor of the OPS operative(s) and OPS estimated exposure levels in the plan of work.

Analyst(s) (print):	Jordan Longshaw	Signature(s):		Date:	27/05/2020 14:35

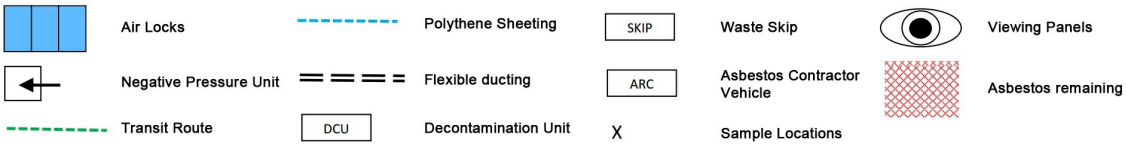
SITE LAYOUT

Client Name and Address:	Manchester Metropolitan University, 99 Oxford Road, Manchester, M1 7EL, ,	Project Number:	P-369565
Site Address:	Ryebank Fields, Chorlton-cum-Hardy, Manchester, M21 9NS	Certificate Number:	20200527/JLO/001

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



KEY FOR DIAGRAM



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

Analyst Name(s):	Jordan Longshaw	ARC Supervisor Name:	N/A	Date: 27/05/2020
Analyst Signature(s):		ARC Supervisor Signature:	N/A	

2719

AIR MONITORING TEST REPORT

Client Details	Manchester Metropolitan University	Project Number:	P-369565
	99 Oxford Road, Manchester, M1 7EL, ,	Shift Number:	5
		Certificate Number:	20200528/JLO/001
Site Address	Ryebank Fields, Chorlton-cum-Hardy, Manchester, M21 9NS	Issued Date:	28/05/2020
		Issued by (print):	Jordan Longshaw
		Issued by (signature):	

Environmental Essentials' Issuing Laboratory
Lab L1, Unit 3 Arlington Court, Silverdale Enterprise Park, Cannel Row, Staffordshire ST5 6SS

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 satifactory 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 possibilty of contamination causing the elevated fibre count.

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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.

UKAS TESTING
2719

AIR MONITORING TEST CERTIFICATE

environmental essentials

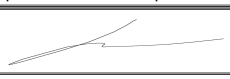
Client Name and Address:	Manchester Metropolitan University, 99 Oxford Road, Manchester, M1 7EL, ,	Project Number:	P-369565
Site Address:	Ryebank Fields, Chorlton-cum-Hardy, Manchester, M21 9NS	Date:	28/05/2020
Work Location:	Field areas, as per aerial photo demarcation	Certificate Number:	20200528/JLO/001

Microscope No:	M39	NPL Test Slide	3558	Stage Micrometer:	SM42	Timepiece:	DB44
Testing Kit No:	A39	Test band observed:	5	Graticule Diameter(µm):	100	Exposed filter diameter:	22.0
Flow meter:	F35A/LF35A	Barometer/Thermometer:	DB44	Pressure (mb):	1033.4	Temperature (°C):	15.8

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**	Reported Result (f/ml)
					Start	Finish		Start	Finish							
001	R	252	JLO01	External - Field areas, as per aerial photo demarcation - Front left side of field	08:56	09:56	60	8.0	8.0	8.00	480	2.0	200	0.01	0.001	< 0.01
002	R	253	JLO02	External - Field areas, as per aerial photo demarcation - Front middle of field	08:57	09:57	60	8.0	8.0	8.00	480	1.5	200	0.01	0.0008	< 0.01
003	R	256	JLO03	External - Field areas, as per aerial photo demarcation - Front right side of field	08:58	09:58	60	8.0	8.0	8.00	480	2.5	200	0.01	0.0013	< 0.01
004	FB	-	JLOFB	Taken alongside 001R	-	-	-	-	-	-	-	Not Counted	Not Counted	-	-	-
005	R	252	JLO04	External - Field areas, as per aerial photo demarcation - Middle left side of field	10:11	11:11	60	8.0	8.0	8.00	480	1.5	200	0.01	0.0008	< 0.01
006	R	253	JLO05	External - Field areas, as per aerial photo demarcation - Middle of the field	10:12	11:12	60	8.0	8.0	8.00	480	3.0	200	0.01	0.0015	< 0.01
007	R	256	JLO06	External - Field areas, as per aerial photo demarcation - Middle right side of field	10:13	11:13	60	8.0	8.0	8.00	480	2.0	200	0.01	0.001	< 0.01
008	R	252	JLO07	External - Field areas, as per aerial photo demarcation - Rear left side of field	13:00	14:00	60	8.0	8.0	8.00	480	2.5	200	0.01	0.0013	< 0.01
009	R	253	JLO08	External - Field areas, as per aerial photo demarcation - Rear middle of the field	13:01	14:01	60	8.0	8.0	8.00	480	3.0	200	0.01	0.0015	< 0.01
010	R	256	JLO09	External - Field areas, as per aerial photo demarcation - Rear right side of field	13:02	14:02	60	8.0	8.0	8.00	480	2.0	200	0.01	0.001	< 0.01
011	A	235	JLO10	External - Field areas, as per aerial photo demarcation - Attached to OPS operative Steve Murray wearing Cat 3 Type 5 overalls and half face mask while carrying out the removal of suspected asbestos cement to the external grounds.	09:03	11:25	142	2.0	2.0	2.00	284	3.5	200	0.02	0.003	< 0.02
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

*LoQ = Limit of quantification **Calculated result is provided for information only and is not intended to imply any greater accuracy of result than the stated limit of quantification.

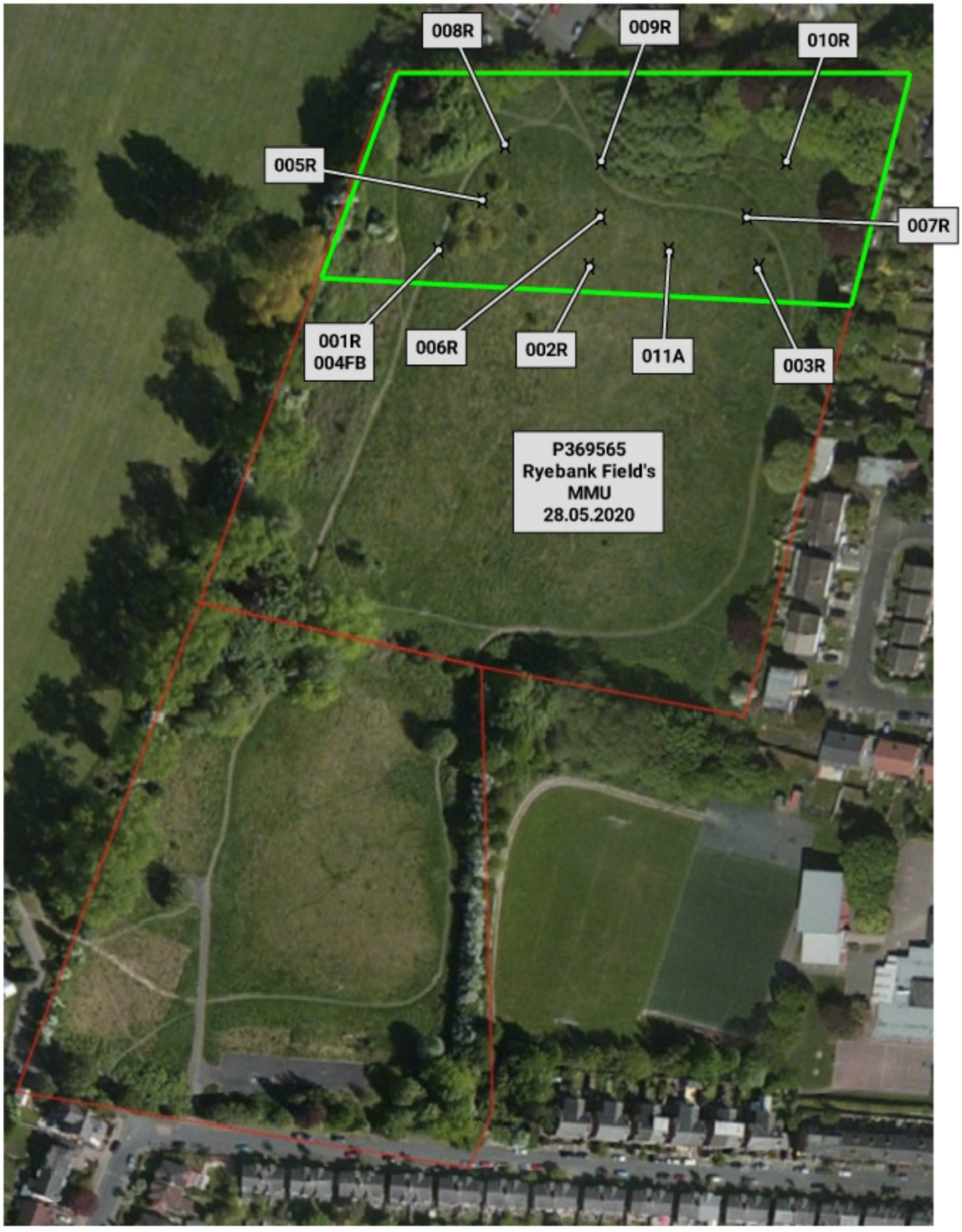
Comments:
Asbestos cement debris has been identified by a resident previous to commencement of these works. MMU have since fenced the fields off to restrict access and OPS have been commissioned to undertake a clean up of any suspect non-licensed materials, as far as reasonably practicable. OPS operative Steve Murray has sectioned off the field into 5 sections so each section can be remediated on a daily basis. Reassurance and personal assessment air tests were undertaken during the removal of cement debris and remediation / making safe work to seal over suspect insulation to the external ground areas, within this section of the field. All results proved to be satisfactory being below the limit of quantification and below the mask protection factor of the OPS operative(s) and OPS estimated exposure levels in the plan of work.

Analyst(s) (print):	Jordan Longshaw	Signature(s):		Date:	28/05/2020 15:30

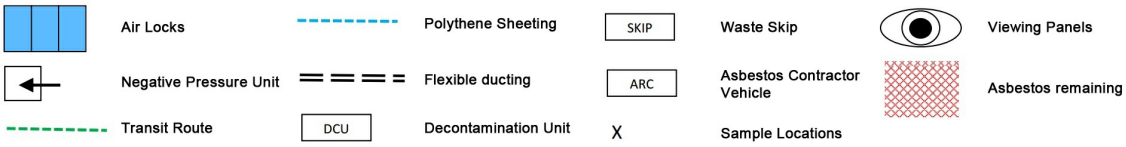
SITE LAYOUT

Client Name and Address:	Manchester Metropolitan University, 99 Oxford Road, Manchester, M1 7EL, ,	Project Number:	P-369565
Site Address:	Ryebank Fields, Chorlton-cum-Hardy, Manchester, M21 9NS	Certificate Number:	20200528/JLO/001

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



KEY FOR DIAGRAM



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

Analyst Name(s):	Jordan Longshaw	ARC Supervisor Name:	N/A	Date: 28/05/2020
Analyst Signature(s):		ARC Supervisor Signature:	N/A	

2719

AIR MONITORING TEST REPORT

Client Details	Manchester Metropolitan University	Project Number:	P-369565
	99 Oxford Road, Manchester, M1 7EL, ,	Shift Number:	6
		Certificate Number:	20200529/JLO/001
Site Address	Ryebank Fields, Chorlton-cum-Hardy, Manchester, M21 9NS	Issued Date:	29/05/2020
		Issued by (print):	Jordan Longshaw
		Issued by (signature):	

Environmental Essentials' Issuing Laboratory

Lab L1, Unit 3 Arlington Court, Silverdale Enterprise Park, Cannel Row, Staffordshire ST5 6SS

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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.
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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.

UKAS TESTING
2719

AIR MONITORING TEST CERTIFICATE

environmental essentials

Client Name and Address:	Manchester Metropolitan University, 99 Oxford Road, Manchester, M1 7EL, ,	Project Number:	P-369565
Site Address:	Ryebank Fields, Chorlton-cum-Hardy, Manchester, M21 9NS	Date:	29/05/2020
Work Location:	Field areas, as per aerial photo demarcation	Certificate Number:	20200529/JLO/001

Microscope No:	M39	NPL Test Slide	3558	Stage Micrometer:	SM42	Timepiece:	DB44
Testing Kit No:	A39	Test band observed:	5	Graticule Diameter(µm):	100	Exposed filter diameter:	22.0
Flow meter:	F35A/LF35A	Barometer/Thermometer:	DB44	Pressure (mb):	1031.1	Temperature (°C):	16.8

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**	Reported Result (f/ml)
					Start	Finish		Start	Finish							
001	A	235	JLO01	External - Field areas, as per aerial photo demarcation - OPS operative Dexter Schofield	08:35	10:25	110	2.0	2.0	2.00	220	2.5	200	0.02	0.0028	< 0.02
002	R	252	JLO02	External - Field areas, as per aerial photo demarcation - Left side of the cordoned area	08:37	09:37	60	8.0	8.0	8.00	480	3.5	200	0.01	0.0018	< 0.01
003	R	253	JLO03	External - Field areas, as per aerial photo demarcation - Right side of the cordoned area	08:38	09:38	60	8.0	8.0	8.00	480	2.0	200	0.01	0.001	< 0.01
004	R	252	JLO04	External - Field areas, as per aerial photo demarcation - Left side of the cordoned area	09:49	10:49	60	8.0	8.0	8.00	480	2.0	200	0.01	0.001	< 0.01
005	R	253	JLO05	External - Field areas, as per aerial photo demarcation - Right side of the cordoned area	09:50	10:50	60	8.0	8.0	8.00	480	3.0	200	0.01	0.0015	< 0.01
006	FB	-	JLOFB	Taken alongside 002R	-	-	-	-	-	-	-	Not Counted	Not Counted	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

*LoQ = Limit of quantification **Calculated result is provided for information only and is not intended to imply any greater accuracy of result than the stated limit of quantification.

Comments:
Return to site to further make safe the areas in which asbestos insulation had been identified. OPS are returning to sheet over and add a level of gravel over the areas. Re-assurance and personal tests to be carried out to provide assurances and to confirm ambient fibre levels. All tests came back satisfactory and below the limit of quantification.

Analyst(s) (print):	Jordan Longshaw	Signature(s):		Date:	29/05/2020 12:00

SITE LAYOUT

Client Name and Address:	Manchester Metropolitan University, 99 Oxford Road, Manchester, M1 7EL, ,	Project Number:	P-369565
Site Address:	Ryebank Fields, Chorlton-cum-Hardy, Manchester, M21 9NS	Certificate Number:	20200529/JLO/001

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

KEY FOR DIAGRAM

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

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

Analyst Name(s):	Jordan Longshaw	ARC Supervisor Name:	N/A	Date: 29/05/2020
Analyst Signature(s):		ARC Supervisor Signature:	N/A	