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STAGE 2 OF 4		Visual inspection			
2.1	Is there adequate lighting and essential equipment within the enclosure / work area	(Yes)	~~No~~		COMMENTS:
2.2	Is the enclosure internal construction intact	(Yes)	~~No~~	~~N/A~~	
2.3	Is the enclosure / work area dry	(Yes)	~~No~~		
2.4	Is there plant / equipment within the enclosure / work area	(Yes)	~~No~~		Refer to comments Below
2.5	Is there the presence of fine settled dust to any surfaces within the enclosure / work area	~~Yes~~	(No)		
2.6	Has all the ACM specified in the plan of work been removed / encapsulated	(Yes)	~~No~~		
2.7	Is there ACM remaining within the enclosure / work area not specified for removal in the plan of work	(Yes)	~~No~~		Refer to comments Below.
2.8	Is there evidence of inaccessible ACM or reason to suspect its presence within the enclosure / work area	~~Yes~~	(No)		
2.9	Are there surfaces within the enclosure / work area where it is almost impossible to remove all the ACM, sufficient for a visual inspection to pass as normal	~~Yes~~	(No)		
2.10	Is there loose rubble flooring within the enclosure / work area	~~Yes~~	(No)		
2.11	Have waste bags, materials, unnecessary equipment been removed from the enclosure / work area	(Yes)	~~No~~		
2.12	Is there evidence or reason to suspect the general use of sprayed sealants	~~Yes~~	(No)		
2.13	Is air extraction equipment in situ and in operation	(Yes)	~~No~~	~~N/A~~	
2.14	Has each air extractor been fitted with new pre-filters	(Yes)	~~No~~	~~N/A~~	
2.15	**Stage 2 visual inspection duration:**	15 Mins			

STAGE 2 RESULT	(Passed) / ~~Failed~~	Date: 22/10/18	Time: 1055

THE ENCLOSURE INCLUDING AIRLOCK AND BAGLOCK (WHEN BAGLOCK CONSTRUCTED) OR DESIGNATED WORK AREA IS (FREE) / ~~NOT FREE~~ OF VISIBLE ASBESTOS WASTE, DEBRIS AND SURFACE DUST

Assessment carried out by: D. Phillips **Signature:** D Phillips

ADDITIONAL COMMENTS: The Pipe is still Present and has Been wrapped in Poly Apart from a small section which has been cleaned to allow a Cut point, This is clean - no lagging visible, following a satisfactory AIR TEST The rest of the Enclosure shall be removed to Allow the scaffolding Tower to be moved to next Area, scaffolding will be inspected following Completion of all works.

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STAGE 3 OF 4		Clearance air monitoring						
3.1	Estimated size of enclosure	16	~~m²~~ / (m³)	3.2	Are all areas within the enclosure / work area dry	(Yes)	~~No~~	
3.3	Is there evidence or reason to suspect the use of sprayed sealant	~~Yes~~	(No)	3.4	Is air extraction equipment to the enclosure switched off with pre-filters capped and sealed	(Yes)	~~No~~	~~N/A~~
3.5	Number of air samples collected	2		3.6	Method of dust raising activities	Brushy		
	Number of air measurements required	2			Duration of dust raising activities	3 Mins		

Technical data & Clearance indicator air sampling details

Lab Location: Permanent / ~~Site~~ / Mobile (Mobile) If Mobile Lab - Reg No: AE66 UTG Field Blank (FB) nominated: ~~Yes~~ (No)

Microscope serial number	5493	Phase contrast telescope number	5085
Digital Thermometer / Barometer / Timepiece	5816	Working flow meter serial number	5868
Stage micrometer serial number	5012	NPL test slide serial number	5533

Limit of quantification for following measurements = 0.01 f/ml | Tally Counters 5891 5893

Analyst's name: D. Phillips Sampler's name: D. Phillips

Sample Number	Analyst Initial	Sampler Initial	Pump Number	Cowl Number	Start Time	Finish Time	Duration (min)	Intermediate Flow Rate (l/min) Start	60min	120min	180min	Finish
1	DP	DP	5313	3	1056	1156	60	8.0	/	/	/	8.0
2	DP	DP	5100	4	1059	1159	60	8.0	/	/	/	8.0
						End						

Sample Number	Location Refer to plan Page No. 3	Temp (°C)	Press (mbar)	★ Actual flow rate (l/min)	Volume (Litres)		Number of Fields	Number of Fibres		Calculated Result (f/ml)	# Reported Result (f/ml)
1	SP①	9	1040	8.0	480	/	200	3	/	0.002	<0.01
2	SP②	9	1040	8.0	480	/	200	2	/	0.001	<0.01
							End				

Microscope calibrated (YES) ~~NO~~ NPL band resolution: 5 Graticule diameter: 100 µm

Membrane filters used: Nitrocellulose / 0.8 µm pore size / 25 mm Dia / Printed Grid Batch No. 1299 Exposed filter: 397.61 mm²

We hereby certify that the Asbestos Fibres in Air Sampling and Analysis has been carried out in accordance with the Asbestos Consultants Europe Ltd Technical Procedure Document TPD 6 and the HSE's HSG248. **The above tests meet the criteria set out in the international standard ISO / IEC 17025**

NOTE:

(#) **UNCERTAINTY OF MEASUREMENT:** The lower limit of quantification for the above method is stated in HSG248 as about 0.01 fibres/ml. When the sample volume is equal to or greater than 480 litres and 200 graticule fields are examined, a calculated result below the limit of detection may be expressed as <0.01 f/ml. For sample volumes below 480 litres and graticule field counts below 200, the lower limit of accurate measurement will be higher.

(★) **ACTUAL FLOW RATE:** Determined by averaging the calibrated Intermediate flow rates and/or where differences in ambient temperature and/or pressure between the calibration and sampling sites are greater than 5%.

STAGE 3 RESULT	(Passed)	~~Failed~~	Date: 22/10/18	Time: 1330

THE ENCLOSURE / DESIGNATED WORK AREA (CAN BE) / ~~CANNOT BE~~ DISMANTLED

Assessment carried out by: D. Phillips Signature: D Phillips

QC/124-1 Issue date: 28.02.14

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STAGE 4 OF 4	*Final assessment post enclosure / work area dismantling*			
4.1	Work area equipment and / or enclosure deconstruction process witnessed by the technician	~~Yes~~	(No)	COMMENTS:
4.2	Is the work area and surrounding areas free of ACM waste / debris	(Yes)	~~No~~	
4.3	Is plant and / or equipment within the area free of ACM waste / debris / remnants	~~Yes~~	(No)	Refer to 2.4/2.7
4.4	Is plant and / or equipment immediately adjacent to the area, free of ACM waste / debris / remnants	(Yes)	~~No~~	
4.5	Is the transit, waste route and skip location free of ACM waste / debris	(Yes)	~~No~~	
4.6	Reassurance air testing carried out during the deconstruction process	~~Yes~~	(No)	
STAGE 4 RESULT		(Passed)	~~Failed~~	Date: 22/10/18 Time: 1435

THE AREA (CAN BE) / ~~CANNOT BE~~ REOCCUPIED

Assessment carried out by: D. Phillips **Signature:** D Phillips

Contractor's representative acknowledgement

~~I have been advised by~~

~~that a failed Certificate of reoccupation will be issued because the area has failed stage: 1 2 3 4~~

I have been advised by D. Phillips

that the Certificate of reoccupation can be issued as the area has passed all 4 stages

(Complete one of the above and strike through the other option)

Contractor representative's Name: T Peverley **Date:** 22/10/18

Signature: **Time:** 1435

Certificate of reoccupation issue details

Copies of this certificate (with appendages where applicable) were issued to the following:

Copy 1 issued to: DSM Demolition LTD

Copy 2 issued to:

Other copies issued to:

Appended documents:

Technician's Name: D. Phillips **Date:** 22/10/18

Signature: D Phillips **Time:** 1435

Note: A copy of the Certificate of reoccupation must always be issued to the asbestos removal contractor.

The asbestos removal contractor requires a separate clearance certificate of inspection for the hygiene facility unless the unit is to remain on site for additional works.

Asbestos Consultants Europe Ltd

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UKAS TESTING 0472

Certificate of Reoccupation

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UKAS accredited methods	We hereby certify that site assessment for reoccupation has been carried out in accordance with the Health and Safety Executive HSG248 and the Asbestos Consultants Europe Ltd Technical procedure document TPD 6.

ACCREDITED BY UKAS FOR STAGES 1, 2, 3 & 4 OF THE 4 STAGE CERTIFICATE OF REOCCUPATION

Customer's name & address	DSM Demolition LTD, AVDEN HOUSE, AVDEN ROAD HEATHANOS Birmingham B8 1DE
Contact name: K Jones	Telephone No: 0121322 2225
Site address	Former JDE Distribution Facility, Southam Road Banbury OX16 2QU
Contractor's name & address	AS PER Client
Site supervisor's name: T Peverley	Telephone No: 07584028527

Contractor's representative who is responsible for confirming their inspection of the enclosure and / or work area is complete and satisfactory and who will acknowledge the outcome and findings reported by the ace technician

Representative's name: T Peverley

Areas to be assessed where work with asbestos has taken place	Enclosure No 28
Brief description of work undertaken	Removal of high level Pipe under fully Controlled conditions
Date(s) work carried out by contractor:	19/10/18 – 22/10/18

The contractor's confirmed that their inspection of the enclosure and/or work area is completed and satisfactory with all specified asbestos work completed	(Yes)	~~No~~	Technician is not to proceed without contractors confirmation of a satisfactory inspection

Anticipated start of the assessment:	Date: 22/10/18	Time: 08:00
Confirmed start of the assessment:	Date: 22/10/18	Time: 0940

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Report No: J179721/2 DP | Issue No: 1 | Page 2 of 6

STAGE 1 OF 4		*Preliminary check of site condition and job completeness*			
1.1	Plan of work checked and entire work area defined/agreed including method of removal when enclosure not used	(Yes)	~~No~~		COMMENTS:
1.2	Diagram or photos showing main work area features agreed with and signed by contractor	(Yes)	~~No~~		
1.3	Is any asbestos to remain in work area not in the contract to be removed	~~Yes~~	(No)		
1.4	Work area only (enclosures not used), clearly defined with physical barriers appropriately placed	~~Yes~~	~~No~~	(N/A)	
1.5	Enclosure intact and constructed to encompass the defined work area with reasonable working space	(Yes)	~~No~~	~~N/A~~	
1.6	Airlocks / Baglocks suitably constructed and at least 1m x 1m x 2m (height)	(Yes)	~~No~~	~~N/A~~	
1.7	Air extraction unit(s) fitted to enclosure and operating	(Yes)	~~No~~	~~N/A~~	
1.8	Hygiene facility still intact and operating, including air extraction	(Yes)	~~No~~		HF TO STAY ON SITE FOR FURTHER WORKS
1.9	Hygiene facility clean end compartment checked for cleanliness, hot / cold water and heating	(Yes)	~~No~~		
1.10	Hygiene facility shower area and dirty end compartments inspected and found clean and free from stored items	(Yes)	~~No~~		
1.11	Transit and waste route signs appropriately displayed	(Yes)	~~No~~		
1.12	Transit and waste route areas free from obvious signs of contamination / ACM waste / debris	(Yes)	~~No~~		GENERAL DUST PRESENT
1.13	Skip area free from obvious signs of contamination / ACM waste / debris	(Yes)	~~No~~	~~N/A~~	SKIP OUTSIDE BUILDING
1.14	Areas immediately adjacent enclosure / work area free from obvious signs of contamination / ACM waste / debris	(Yes)	~~No~~		
1.15	Work area only (inspected from barrier edge) for identification of any remedial action requirements prior to entry	~~Yes~~	~~No~~	(N/A)	
1.16	Enclosure inspected via viewing panels and/or CCTV for any remedial action requirements prior to entry	(Yes)	~~No~~	~~N/A~~	
1.17	Any additional checks (details of additional checks to be recorded in comments section)	~~Yes~~	(No)		

STAGE 1 RESULT	(Passed) / ~~Failed~~	Date: 22/10/18	Time: 10:00
Assessment carried out by: D. Phillips		Signature: D Phillips	

ADDITIONAL COMMENTS:

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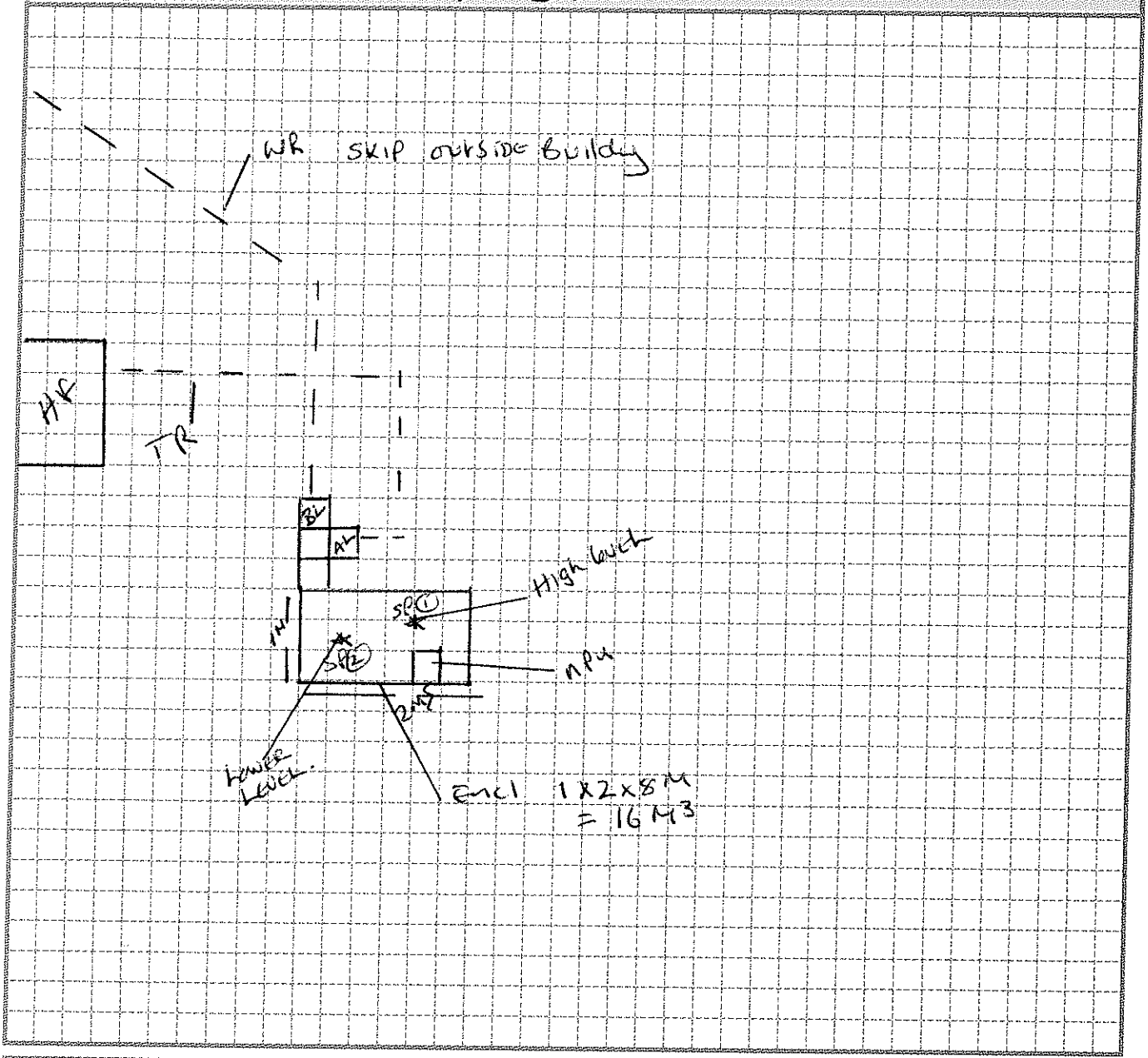
Layout diagram of asbestos removal site

Site location: Enclosure No 28



Main work area features agreed with and signed by the asbestos removal contractor's representative and ace technician

Technician's name:	D. Phillips	Contractor's name:	T Peverley
Signature:	D Phillips	Signature:	

KEY:						
	Enclosure	EN	Waste skip	WS	Negative pressure unit	NPU
	Work area	WA	Airlock	AL	Transit route	TR
	Hygiene facility	HF	Baglock	BL	Sample point	SP

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STAGE 2 OF 4		Visual inspection			
2.1	Is there adequate lighting and essential equipment within the enclosure / work area	(Yes)	~~No~~		COMMENTS:
2.2	Is the enclosure internal construction intact	(Yes)	~~No~~	~~N/A~~	
2.3	Is the enclosure / work area dry	(Yes)	~~No~~		
2.4	Is there plant / equipment within the enclosure / work area	(Yes)	~~No~~		SEE Cammants BELOW
2.5	Is there the presence of fine settled dust to any surfaces within the enclosure / work area	~~Yes~~	(No)		
2.6	Has all the ACM specified in the plan of work been removed / encapsulated	(Yes)	~~No~~		
2.7	Is there ACM remaining within the enclosure / work area not specified for removal in the plan of work	(Yes)	~~No~~		SEE CammantS BELOW.
2.8	Is there evidence of inaccessible ACM or reason to suspect its presence within the enclosure / work area	~~Yes~~	(No)		
2.9	Are there surfaces within the enclosure / work area where it is almost impossible to remove all the ACM, sufficient for a visual inspection to pass as normal	~~Yes~~	(No)		
2.10	Is there loose rubble flooring within the enclosure / work area	~~Yes~~	(No)		
2.11	Have waste bags, materials, unnecessary equipment been removed from the enclosure / work area	(Yes)	~~No~~		
2.12	Is there evidence or reason to suspect the general use of sprayed sealants	~~Yes~~	(No)		
2.13	Is air extraction equipment in situ and in operation	(Yes)	~~No~~	~~N/A~~	
2.14	Has each air extractor been fitted with new pre-filters	(Yes)	~~No~~	~~N/A~~	
2.15	Stage 2 visual inspection duration:	15 Mins			

STAGE 2 RESULT (Passed) ~~Failed~~ Date: 22/10/18 Time: 1121

THE ENCLOSURE INCLUDING AIRLOCK AND BAGLOCK (WHEN BAGLOCK CONSTRUCTED) OR DESIGNATED WORK AREA IS (FREE) / ~~NOT FREE~~ OF VISIBLE ASBESTOS WASTE, DEBRIS AND SURFACE DUST

Assessment carried out by: D. Phillips Signature: D Phillips

ADDITIONAL COMMENTS: The Pipe is still present, it has been wrapped in poly apart from a small section which has been cleaned to Allow a CUTPoint, This is clean No Lagging visible, following a SATISFACTORY AIR TEST. The top of the Enclosure will be REMOVED to Allow the Scaffolding TOWER TO be MOVED TO Next AREA The Scaffolding will be fully inspected once ~~the~~ DP all Works Are Complete.

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Report No: J179721 | 2 DP	Issue No: 1	Page 5 of 6

STAGE 3 OF 4		*Clearance air monitoring*					
3.1	Estimated size of enclosure	16 ~~m²~~ (m³)	3.2	Are all areas within the enclosure / work area dry	(Yes)	~~No~~	
3.3	Is there evidence or reason to suspect the use of sprayed sealant	~~Yes~~	(No)	3.4	Is air extraction equipment to the enclosure switched off with pre-filters capped and sealed	(Yes)	No ~~N/A~~
3.5	Number of air samples collected	2		3.6	Method of dust raising activities	Brushy	
	Number of air measurements required	2			Duration of dust raising activities	3 Mins	

Technical data & Clearance indicator air sampling details

Lab Location: Permanent / ~~Site~~ / Mobile (Mobile) If Mobile Lab - Reg No: AE66 UTG Field Blank (FB) nominated: ~~Yes~~ (No)

Microscope serial number	5493	Phase contrast telescope number	5085
Digital Thermometer / Barometer / Timepiece	5816	Working flow meter serial number	5888
Stage micrometer serial number	5012	NPL test slide serial number	5533

Limit of quantification for following measurements = 0.01F/ml | Tally Counters 5891 5893

Analyst's name: D. Phillips Sampler's name: D. Phillips

Sample Number	Analyst Initial	Sampler Initial	Pump Number	Cowl Number	Start Time	Finish Time	Duration (min)	Intermediate Flow Rate (l/min) Start	60min	120min	180min	Finish
1	DP	DP	5172	5	1122	1222	60	8.0	/	/	/	8.0
2	DP	DP	5193	6	1124	1224	60	8.0	/	/	/	8.0
						End						

Sample Number	Location Refer to plan Page No. 3	Temp (°C)	Press (mbar)	★ Actual flow rate (l/min)	Volume (Litres)		Number of Fields	Number of Fibres		Calculated Result (f/ml)	# Reported Result (f/ml)
1	SP(1)	11	1040	8.0	480	/	200	2	/	0.001	<0.01
2	SP(2)	11	1040	8.0	480	/	200	1	/	0.001	<0.01
						End					

Microscope calibrated (YES) ~~NO~~ NPL band resolution: 5 Graticule diameter: 100 µm

Membrane filters used: Nitrocellulose / 0.8 µm pore size / 25 mm Dia / Printed Grid Batch No. 1299 Exposed filter: 397.61 mm²

We hereby certify that the Asbestos Fibres in Air Sampling and Analysis has been carried out in accordance with the Asbestos Consultants Europe Ltd Technical Procedure Document TPD 6 and the HSE's HSG248. **The above tests meet the criteria set out in the international standard ISO / IEC 17025**

NOTE:

(#) UNCERTAINTY OF MEASUREMENT: The lower limit of quantification for the above method is stated in HSG248 as about 0.01 fibres/ml. When the sample volume is equal to or greater than 480 litres and 200 graticule fields are examined, a calculated result below the limit of detection may be expressed as <0.01 f/ml. For sample volumes below 480 litres and graticule field counts below 200, the lower limit of accurate measurement will be higher.

(★) ACTUAL FLOW RATE: Determined by averaging the calibrated intermediate flow rates and/or where differences in ambient temperature and/or pressure between the calibration and sampling sites are greater than 5%.

STAGE 3 RESULT	(Passed)	~~Failed~~	Date: 22/10/18	Time: 1330

THE ENCLOSURE / DESIGNATED WORK AREA (CAN BE) / ~~CANNOT BE~~ DISMANTLED

Assessment carried out by: D. Phillips **Signature:** Phillips

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STAGE 4 OF 4	*Final assessment post enclosure / work area dismantling*			
4.1	Work area equipment and / or enclosure deconstruction process witnessed by the technician	~~Yes~~	(No)	COMMENTS:
4.2	Is the work area and surrounding areas free of ACM waste / debris	(Yes)	~~No~~	
4.3	Is plant and / or equipment within the area free of ACM waste / debris / remnants	~~Yes~~	(No)	Refer to 2.4 | 2.7
4.4	Is plant and / or equipment immediately adjacent to the area, free of ACM waste / debris / remnants	(Yes)	~~No~~	
4.5	Is the transit, waste route and skip location free of ACM waste / debris	(Yes)	~~No~~	
4.6	Reassurance air testing carried out during the deconstruction process	~~Yes~~	(No)	
STAGE 4 RESULT		**Passed**	**Failed**	**Date:** 22/10/18 **Time:** 1500

THE AREA CAN BE / ~~CANNOT BE~~ REOCCUPIED

Assessment carried out by: D. Phillips **Signature:** D Phillips

Contractor's representative acknowledgement

~~I have been advised by~~

~~that a failed Certificate of reoccupation will be issued because the area has failed stage: 1 2 3 4~~

I have been advised by D. Phillips

that the Certificate of reoccupation can be issued as the area has passed all 4 stages

(Complete one of the above and strike through the other option)

Contractor representative's Name: T. Priestley **Date:** 22/10/18

Signature: **Time:** 1500

Certificate of reoccupation issue details

Copies of this certificate (with appendages where applicable) were issued to the following:

Copy 1 issued to: DSM Demolition LTD

Copy 2 issued to:

Other copies issued to:

Appended documents:

Technician's Name: D. Phillips **Date:** 22/10/18

Signature: **Time:** 1500

Note: A copy of the Certificate of reoccupation must always be issued to the asbestos removal contractor.

The asbestos removal contractor requires a separate clearance certificate of inspection for the hygiene facility unless the unit is to remain on site for additional works.

Asbestos Consultants Europe Ltd

Head office: Magnet Road, Grays, Essex, RM20 4DP

UKAS TESTING 0472

Certificate of Reoccupation

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Report No: J179721/4DP	Issue No: 1	Page 1 of 6

UKAS accredited methods	We hereby certify that site assessment for reoccupation has been carried out in accordance with the Health and Safety Executive HSG248 and the Asbestos Consultants Europe Ltd Technical procedure document TPD 6.

ACCREDITED BY UKAS FOR STAGES 1, 2, 3 & 4 OF THE 4 STAGE CERTIFICATE OF REOCCUPATION

Customer's name & address	DSM DEMOLITION LTD, AVDEN HOUSE, AVDEN ROAD HEARTLANDS, BIRMINGHAM B8 1DE	
	Contact name: K. JONES	Telephone No: 0121322 2225
Site address	FORMER JDE DISTRIBUTION FACILITY, SOUTHAM ROAD BANBURY OX16 2QH	
Contractor's name & address	AS PER CLIENT	
	Site supervisor's name: T PEVERLY	Telephone No: 07584028527

Contractor's representative who is responsible for confirming their inspection of the enclosure and / or work area is complete and satisfactory and who will acknowledge the outcome and findings reported by the ace technician

Representative's name: T PEVERLY

Areas to be assessed where work with asbestos has taken place	ENCLOSURE Nº 20
Brief description of work undertaken	Removal of high level PIPE UNDER fully Controlled CONDITIONS
	Date(s) work carried out by contractor: 20/10/18 – 23/10/18

The contractor's confirmed that their inspection of the enclosure and/or work area is completed and satisfactory with all specified asbestos work completed	(Yes)	No	**Technician is not to proceed without contractors confirmation of a satisfactory inspection**

Anticipated start of the assessment:	Date: 23/10/18	Time: 08:00
Confirmed start of the assessment:	Date: 23/10/18	Time: 0820

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STAGE 1 OF 4		*Preliminary check of site condition and job completeness*			
1.1	Plan of work checked and entire work area defined/agreed including method of removal when enclosure not used	(Yes)	~~No~~		COMMENTS:
1.2	Diagram or photos showing main work area features agreed with and signed by contractor	(Yes)	~~No~~		
1.3	Is any asbestos to remain in work area not in the contract to be removed	~~Yes~~	(No)		
1.4	Work area only (enclosures not used), clearly defined with physical barriers appropriately placed	~~Yes~~	~~No~~	(N/A)	
1.5	Enclosure intact and constructed to encompass the defined work area with reasonable working space	(Yes)	~~No~~	~~N/A~~	
1.6	Airlocks / Baglocks suitably constructed and at least 1m x 1m x 2m (height)	(Yes)	~~No~~	~~N/A~~	
1.7	Air extraction unit(s) fitted to enclosure and operating	(Yes)	~~No~~	~~N/A~~	
1.8	Hygiene facility still intact and operating, including air extraction	(Yes)	~~No~~		HF TO STAY ON SITE FOR FURTHER WORKS
1.9	Hygiene facility clean end compartment checked for cleanliness, hot / cold water and heating	(Yes)	~~No~~		
1.10	Hygiene facility shower area and dirty end compartments inspected and found clean and free from stored items	(Yes)	~~No~~		
1.11	Transit and waste route signs appropriately displayed	(Yes)	~~No~~		
1.12	Transit and waste route areas free from obvious signs of contamination / ACM waste / debris	(Yes)	~~No~~		GENERAL DUST PRESENT.
1.13	Skip area free from obvious signs of contamination / ACM waste / debris	(Yes)	~~No~~	~~N/A~~	SKIP OUTSIDE BUILDING
1.14	Areas immediately adjacent enclosure / work area free from obvious signs of contamination / ACM waste / debris	(Yes)	~~No~~		
1.15	Work area only (inspected from barrier edge) for identification of any remedial action requirements prior to entry	~~Yes~~	~~No~~	(N/A)	
1.16	Enclosure inspected via viewing panels and/or CCTV for any remedial action requirements prior to entry	(Yes)	~~No~~	~~N/A~~	
1.17	Any additional checks (details of additional checks to be recorded in comments section)	~~Yes~~	(No)		

STAGE 1 RESULT	(Passed)	~~Failed~~	Date: 23/10/18	Time: 0850
Assessment carried out by: D. Phillips			**Signature:** D Phillips	

ADDITIONAL COMMENTS:

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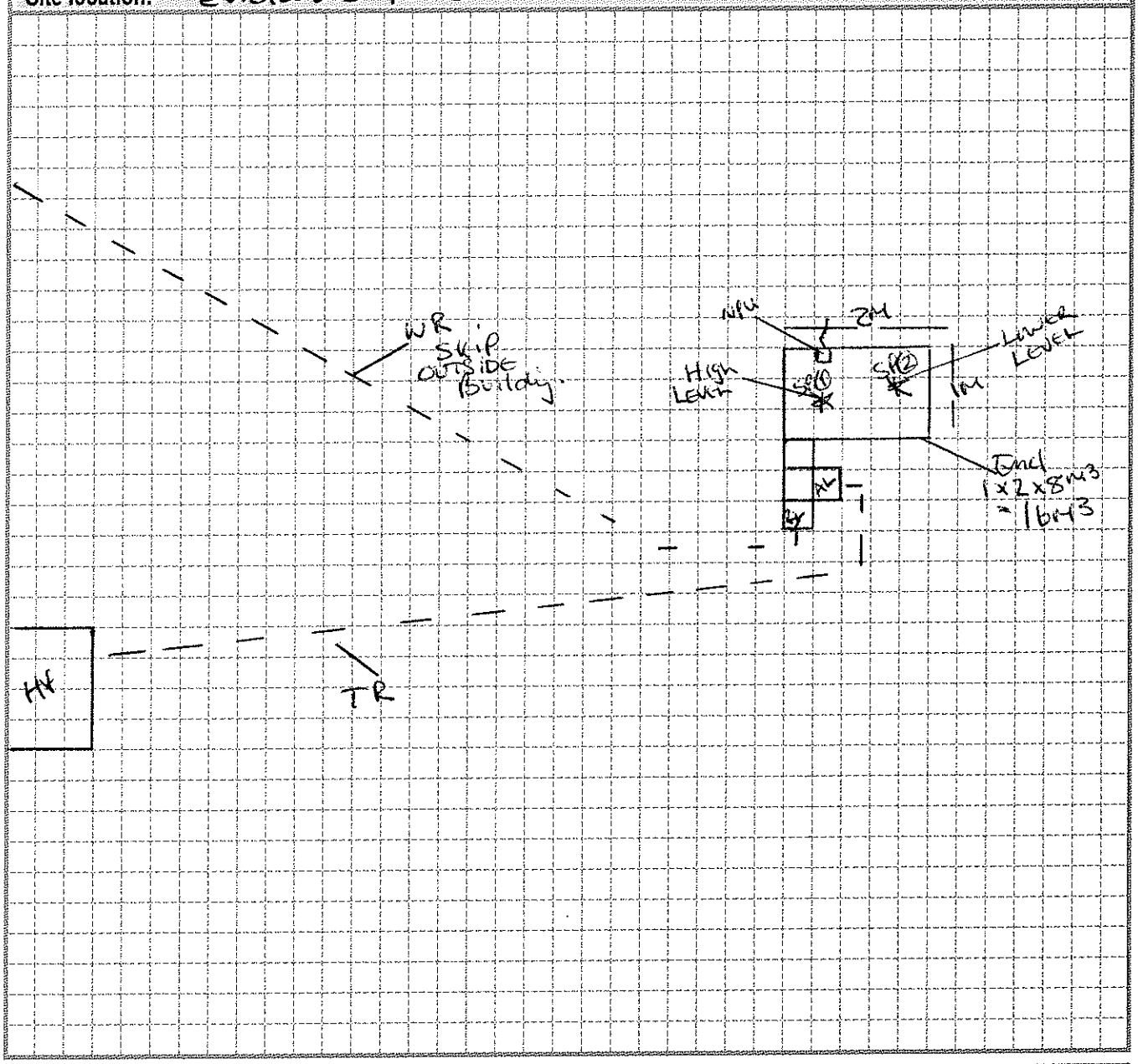
Layout diagram of asbestos removal site

Site location: Enclosure No 20



Main work area features agreed with and signed by the asbestos removal contractor's representative and ace technician

Technician's name: D. Phillips

Signature: D Phillips

Contractor's name: T Pengelly

Signature:

KEY:						
	Enclosure	EN	Waste skip	WS	Negative pressure unit	NPU
	Work area	WA	Airlock	AL	Transit route	TR
	Hygiene facility	HF	Baglock	BL	Sample point	SP

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STAGE 2 OF 4		Visual inspection			
2.1	Is there adequate lighting and essential equipment within the enclosure / work area	(Yes)	~~No~~		COMMENTS:
2.2	Is the enclosure internal construction intact	(Yes)	~~No~~	~~N/A~~	
2.3	Is the enclosure / work area dry	(Yes)	~~No~~		
2.4	Is there plant / equipment within the enclosure / work area	(Yes)	~~No~~		See comments Below.
2.5	Is there the presence of fine settled dust to any surfaces within the enclosure / work area	~~Yes~~	(No)		
2.6	Has all the ACM specified in the plan of work been removed / encapsulated	(Yes)	~~No~~		
2.7	Is there ACM remaining within the enclosure / work area not specified for removal in the plan of work	(Yes)	~~No~~		See comments Below
2.8	Is there evidence of inaccessible ACM or reason to suspect its presence within the enclosure / work area	~~Yes~~	(No)		
2.9	Are there surfaces within the enclosure / work area where it is almost impossible to remove all the ACM, sufficient for a visual inspection to pass as normal	~~Yes~~	(No)		
2.10	Is there loose rubble flooring within the enclosure / work area	~~Yes~~	(No)		
2.11	Have waste bags. materials, unnecessary equipment been removed from the enclosure / work area	(Yes)	~~No~~		
2.12	Is there evidence or reason to suspect the general use of sprayed sealants	~~Yes~~	(No)		
2.13	Is air extraction equipment in situ and in operation	(Yes)	~~No~~	~~N/A~~	
2.14	Has each air extractor been fitted with new pre-filters	(Yes)	~~No~~	~~N/A~~	
2.15	Stage 2 visual inspection duration:	20 Mins			

STAGE 2 RESULT (Passed) ~~Failed~~ Date: 23/10/18 Time: 0930

THE ENCLOSURE INCLUDING AIRLOCK AND BAGLOCK (WHEN BAGLOCK CONSTRUCTED) OR DESIGNATED WORK AREA IS (FREE) / ~~NOT FREE~~ OF VISIBLE ASBESTOS WASTE, DEBRIS AND SURFACE DUST

Assessment carried out by: D. Phillips Signature: D Phillips

ADDITIONAL COMMENTS: The Pipe is still Present and has been wrapped in Poly apart from a small section which has been cleaned to Allow a Cut Point, This is clear No lagging visible, following a Satisfactory Air TEST The top of The Enclosure SHALL be Removed to Allow The Scaffolding tower to be Moved to next area, Scaffolding will be inspected following Completion of All works.

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Report No: J179721/4DP	Issue No: 1	Page 5 of 6

STAGE 3 OF 4		Clearance air monitoring						
3.1	Estimated size of enclosure	16 ~~m²~~ / (m³)		3.2	Are all areas within the enclosure / work area dry	(Yes)	~~No~~	
3.3	Is there evidence or reason to suspect the use of sprayed sealant	~~Yes~~	(No)	3.4	Is air extraction equipment to the enclosure switched off with pre-filters capped and sealed	(Yes)	~~No~~	~~N/A~~
3.5	Number of air samples collected	2		3.6	Method of dust raising activities	Brushy		
	Number of air measurements required	2			Duration of dust raising activities	3 Mins		

Technical data & Clearance indicator air sampling details

Lab Location: Permanent / ~~Site~~ / Mobile (circled) If Mobile Lab - Reg No: AE66 UTG Field Blank (FB) nominated: ~~Yes~~ (No)

Microscope serial number	5493	Phase contrast telescope number	5085
Digital Thermometer / Barometer / Timepiece	5816	Working flow meter serial number	5888
Stage micrometer serial number	5012	NPL test slide serial number	5533

Limit of quantification for following measurements = 0.01f/ml 1 Tally counters 5891 5893

Analyst's name: D. Phillips Sampler's name: D. Phillips

Sample Number	Analyst Initial	Sampler Initial	Pump Number	Cowl Number	Start Time	Finish Time	Duration (min)	Intermediate Flow Rate (l/min)				
								Start	60min	120min	180min	Finish
1	DP	DP	5193	1	0931	1031	60	8.0	/	/	/	8.0
2	DP	DP	5172	2	0933	1033	60	8.0	/	/	/	8.0
					END							

Sample Number	Location Refer to plan Page No. 3.	Temp (°C)	Press (mbar)	★ Actual flow rate (l/min)	Volume (Litres)		Number of Fields	Number of Fibres		Calculated Result (f/ml)	# Reported Result (f/ml)
1	SP(1)	10	1033	8.0	480	/	200	2	/	0.001	<0.01
2	SP(2)	10	1033	8.0	480	/	200	2½	/	0.001	<0.01
					END						

Microscope calibrated (YES) ~~NO~~ NPL band resolution: 5 Graticule diameter: 100 µm

Membrane filters used: Nitrocellulose / 0.8 µm pore size / 25 mm Dia / Printed Grid Batch No. 1299 Exposed filter: 397.61 mm²

We hereby certify that the Asbestos Fibres in Air Sampling and Analysis has been carried out in accordance with the Asbestos Consultants Europe Ltd Technical Procedure Document TPD 6 and the HSE's HSG248. **The above tests meet the criteria set out in the international standard ISO / IEC 17025**

NOTE:

(#) **UNCERTAINTY OF MEASUREMENT:** The lower limit of quantification for the above method is stated in HSG248 as about 0.01 fibres/ml. When the sample volume is equal to or greater than 480 litres and 200 graticule fields are examined, a calculated result below the limit of detection may be expressed as <0.01 f/ml. For sample volumes below 480 litres and graticule field counts below 200, the lower limit of accurate measurement will be higher.

(★) **ACTUAL FLOW RATE:** Determined by averaging the calibrated Intermediate flow rates and/or where differences in ambient temperature and/or pressure between the calibration and sampling sites are greater than 5%.

STAGE 3 RESULT	(Passed)	~~Failed~~	Date: 23/10/18	Time: 1215

THE ENCLOSURE / DESIGNATED WORK AREA (CAN BE) / ~~CANNOT BE~~ DISMANTLED

Assessment carried out by: D. Phillips Signature: D Phillips

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Report No: 5179721/4DP	Issue No: 1	Page 6 of 6

STAGE 4 OF 4		*Final assessment post enclosure / work area dismantling*			
4.1	Work area equipment and / or enclosure deconstruction process witnessed by the technician	(Yes)	~~No~~	COMMENTS:	
4.2	Is the work area and surrounding areas free of ACM waste / debris	(Yes)	~~No~~		
4.3	Is plant and / or equipment within the area free of ACM waste / debris / remnants	(Yes)	~~No~~		
4.4	Is plant and / or equipment immediately adjacent to the area, free of ACM waste / debris / remnants	~~Yes~~	(No)	Refer to 2.4/2.7	
4.5	Is the transit, waste route and skip location free of ACM waste / debris	(Yes)	~~No~~		
4.6	Reassurance air testing carried out during the deconstruction process	~~Yes~~	(No)		
STAGE 4 RESULT		(Passed)	~~Failed~~	Date: 23/10/18	Time: 1400

THE AREA (CAN BE) / ~~CANNOT BE~~ REOCCUPIED

Assessment carried out by: D. Phillips Signature: D Phillips

Contractor's representative acknowledgement

~~I have been advised by~~

~~that a failed Certificate of reoccupation will be issued because the area has failed stage: 1 2 3 4~~

I have been advised by D. Phillips

that the Certificate of reoccupation can be issued as the area has passed all 4 stages

(Complete one of the above and strike through the other option)

Contractor representative's Name: T. Loveday Date: 23/10/18

Signature: Time: 1400

Certificate of reoccupation issue details

Copies of this certificate (with appendages where applicable) were issued to the following:

Copy 1 issued to: DSM Demolition LTD

Copy 2 issued to:

Other copies issued to:

Appended documents:

Technician's Name: D. Phillips Date: 23/10/18

Signature: D Phillips Time: 1400

Note: A copy of the Certificate of reoccupation must always be issued to the asbestos removal contractor.

The asbestos removal contractor requires a separate clearance certificate of inspection for the hygiene facility unless the unit is to remain on site for additional works.

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Asbestos Consultants Europe Ltd

Head office: Magnet Road, Grays, Essex, RM20 4DP

UKAS TESTING 0472

Certificate of Reoccupation

03760

Report No: J179721/5DP	Issue No: 1	Page 1 of 6

UKAS accredited methods	We hereby certify that site assessment for reoccupation has been carried out in accordance with the Health and Safety Executive HSG248 and the Asbestos Consultants Europe Ltd Technical procedure document TPD 6.

ACCREDITED BY UKAS FOR STAGES 1, 2, 3 & 4 OF THE 4 STAGE CERTIFICATE OF REOCCUPATION

Customer's name & address	DSM Demolition LTD, Arden house, Arden Road Heartlands, Birmingham B8 1DE Contact name: K Jones Telephone No: 0121322 2225
Site address	Former JDE Distribution facility Southam Road Banbury OX16 2QU
Contractor's name & address	As per client Site supervisor's name: T Peverley Telephone No: 07584 028527

Contractor's representative who is responsible for confirming their inspection of the enclosure and / or work area is complete and satisfactory and who will acknowledge the outcome and findings reported by the ace technician

Representative's name: T Peverley

Areas to be assessed where work with asbestos has taken place	Enclosure NO 22
Brief description of work undertaken	Removal of high level pipe under fully Controlled Conditions Date(s) work carried out by contractor: 22/10/18 – 23/10/18

The contractor's confirmed that their inspection of the enclosure and/or work area is completed and satisfactory with all specified asbestos work completed	(Yes)	No ✓	**Technician is not to proceed without contractors confirmation of a satisfactory inspection**

Anticipated start of the assessment:	Date: 23/10/18	Time: 0800
Confirmed start of the assessment:	Date: 23/10/18	Time: 0820

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Report No: J179721/5 DP | Issue No: 1 | Page 2 of 6

STAGE 1 OF 4		Preliminary check of site condition and job completeness			
1.1	Plan of work checked and entire work area defined/agreed including method of removal when enclosure not used	(Yes)	~~No~~		COMMENTS:
1.2	Diagram or photos showing main work area features agreed with and signed by contractor	(Yes)	~~No~~		
1.3	Is any asbestos to remain in work area not in the contract to be removed	~~Yes~~	(No)		
1.4	Work area only (enclosures not used), clearly defined with physical barriers appropriately placed	~~Yes~~	~~No~~	(N/A)	
1.5	Enclosure intact and constructed to encompass the defined work area with reasonable working space	(Yes)	~~No~~	~~N/A~~	
1.6	Airlocks / Baglocks suitably constructed and at least 1m x 1m x 2m (height)	(Yes)	~~No~~	~~N/A~~	
1.7	Air extraction unit(s) fitted to enclosure and operating	(Yes)	~~No~~	~~N/A~~	
1.8	Hygiene facility still intact and operating, including air extraction	(Yes)	~~No~~		H+S TO STAY ON SITE FOR FURTHER WORKS
1.9	Hygiene facility clean end compartment checked for cleanliness, hot / cold water and heating	(Yes)	~~No~~		
1.10	Hygiene facility shower area and dirty end compartments inspected and found clean and free from stored items	(Yes)	~~No~~		
1.11	Transit and waste route signs appropriately displayed	(Yes)	~~No~~		
1.12	Transit and waste route areas free from obvious signs of contamination / ACM waste / debris	(Yes)	~~No~~		GENERAL DUST PRESENT
1.13	Skip area free from obvious signs of contamination / ACM waste / debris	(Yes)	~~No~~	~~N/A~~	SKIP OUTSIDE BUILDING
1.14	Areas immediately adjacent enclosure / work area free from obvious signs of contamination / ACM waste / debris	(Yes)	~~No~~		
1.15	Work area only (inspected from barrier edge) for identification of any remedial action requirements prior to entry	~~Yes~~	~~No~~	(N/A)	
1.16	Enclosure inspected via viewing panels and/or CCTV for any remedial action requirements prior to entry	(Yes)	~~No~~	~~N/A~~	
1.17	Any additional checks (details of additional checks to be recorded in comments section)	~~Yes~~	(No)		

STAGE 1 RESULT (Passed) ~~Failed~~ Date: 23/10/18 Time: 0850

Assessment carried out by: D. Phillips **Signature:** D Phillips

ADDITIONAL COMMENTS:

QC/124-1 Issue date: 28.02.14

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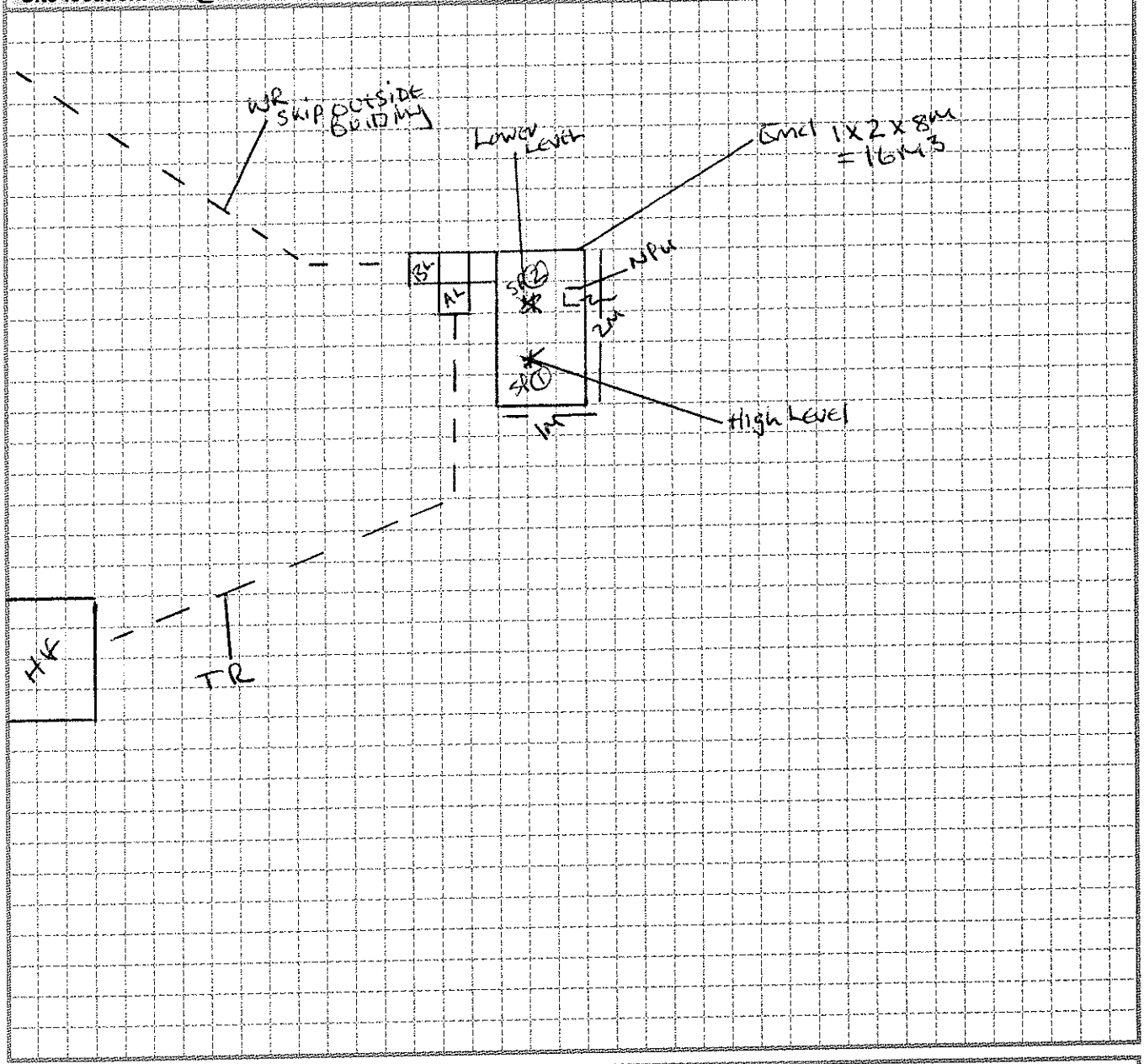
Report No: J179721/5 DP | Issue No: 1 | Page 3 of 6

Layout diagram of asbestos removal site

Site location: Enclosure No 22



Main work area features agreed with and signed by the asbestos removal contractor's representative and ace technician

Technician's name: D. Phillips | Contractor's name: T Peverley

Signature: | Signature:

KEY:						
	Enclosure	EN	Waste skip	WS	Negative pressure unit	NPU
	Work area	WA	Airlock	AL	Transit route	TR
	Hygiene facility	HF	Baglock	BL	Sample point	SP

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Report No: J179721/5 DP | Issue No: 1 | Page 4 of 6

STAGE 2 OF 4		Visual inspection			
2.1	Is there adequate lighting and essential equipment within the enclosure / work area	(Yes)	~~No~~		COMMENTS:
2.2	Is the enclosure internal construction intact	(Yes)	~~No~~	~~N/A~~	
2.3	Is the enclosure / work area dry	(Yes)	~~No~~		
2.4	Is there plant / equipment within the enclosure / work area	(Yes)	~~No~~		SEE comments BELOW
2.5	Is there the presence of fine settled dust to any surfaces within the enclosure / work area	~~Yes~~	(No)		
2.6	Has all the ACM specified in the plan of work been removed / encapsulated	(Yes)	~~No~~		
2.7	Is there ACM remaining within the enclosure / work area not specified for removal in the plan of work	(Yes)	~~No~~		SEE comments BELOW
2.8	Is there evidence of inaccessible ACM or reason to suspect its presence within the enclosure / work area	~~Yes~~	(No)		
2.9	Are there surfaces within the enclosure / work area where it is almost impossible to remove all the ACM, sufficient for a visual inspection to pass as normal	~~Yes~~	(No)		
2.10	Is there loose rubble flooring within the enclosure / work area	~~Yes~~	(No)		
2.11	Have waste bags, materials, unnecessary equipment been removed from the enclosure / work area	(Yes)	~~No~~		
2.12	Is there evidence or reason to suspect the general use of sprayed sealants	~~Yes~~	(No)		
2.13	Is air extraction equipment in situ and in operation	(Yes)	~~No~~	~~N/A~~	
2.14	Has each air extractor been fitted with new pre-filters	(Yes)	~~No~~	~~N/A~~	
2.15	Stage 2 visual inspection duration:	13 Mins			

STAGE 2 RESULT: (Passed) / ~~Failed~~ Date: 23/10/18 Time: 0955

THE ENCLOSURE INCLUDING AIRLOCK AND BAGLOCK (WHEN BAGLOCK CONSTRUCTED) OR DESIGNATED WORK AREA IS (FREE) / ~~NOT FREE~~ OF VISIBLE ASBESTOS WASTE, DEBRIS AND SURFACE DUST

Assessment carried out by: D. Phillips Signature: D Phillips

ADDITIONAL COMMENTS: The Pipe is still Present and has been wrapped in poly Apart from a small section which has been cleaned To Allow a cut Point, This is clean No lagging visible. following a satisfactory Air test The Top of The Enclosure shall be removed To Allow The Scaffolding Tower to be moved to the Next Area, Scaffolding will be inspected following Completion of All works.

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Report No: J179721/5 DP	Issue No: 1	Page 5 of 6

STAGE 3 OF 4		Clearance air monitoring						
3.1	Estimated size of enclosure	16 ~~m²~~ (m³)		3.2	Are all areas within the enclosure / work area dry	(Yes)	~~No~~	
3.3	Is there evidence or reason to suspect the use of sprayed sealant	~~Yes~~	(No)	3.4	Is air extraction equipment to the enclosure switched off with pre-filters capped and sealed	(Yes)	~~No~~	~~N/A~~
3.5	Number of air samples collected	2		3.6	Method of dust raising activities	Brushing		
	Number of air measurements required	2			Duration of dust raising activities	3 Mins		

Technical data & Clearance indicator air sampling details

Lab Location: Permanent / ~~Site~~ / ~~Mobile~~ If Mobile Lab - Reg No: AE66 UTG Field Blank (FB) nominated: ~~Yes~~ (No)

Microscope serial number	5493	Phase contrast telescope number	5085
Digital Thermometer / Barometer / Timepiece	5816	Working flow meter serial number	5888
Stage micrometer serial number	5012	NPL test slide serial number	5533

Limit of quantification for following measurements = 0.01 f/ml 1 Tally Counters 5891 5893

Analyst's name: D. Phillips Sampler's name: D. Phillips

Sample Number	Analyst Initial	Sampler Initial	Pump Number	Cowl Number	Start Time	Finish Time	Duration (min)	Intermediate Flow Rate (l/min)				
								Start	60min	120min	180min	Finish
1	DP	DP	5313	3	0956	1056	60	8.0	/	/	/	8.0
2	DP	DP	5100	4	0958	1058	60	8.0	/	/	/	8.0
					END							

Sample Number	Location Refer to plan Page No. 3	Temp (°C)	Press (mbar)	★ Actual flow rate (l/min)	Volume (Litres)		Number of Fields	Number of Fibres		Calculated Result (f/ml)	# Reported Result (f/ml)
1	SP①	11	1033	8.0	480	/	200	3	/	0.002	<0.01
2	SP②	11	1033	8.0	480	/	200	2	/	0.001	<0.01
					END						

Microscope calibrated (YES) ~~NO~~ NPL band resolution: 5 Graticule diameter: 100 µm

Membrane filters used: Nitrocellulose / 0.8 µm pore size / 25 mm Dia / Printed Grid Batch No. 1299 Exposed filter: 397.61 mm²

We hereby certify that the Asbestos Fibres in Air Sampling and Analysis has been carried out in accordance with the Asbestos Consultants Europe Ltd Technical Procedure Document TPD 6 and the HSE's HSG248. **The above tests meet the criteria set out in the international standard ISO / IEC 17025**

NOTE:

(#) **UNCERTAINTY OF MEASUREMENT:** The lower limit of quantification for the above method is stated in HSG248 as about 0.01 fibres/ml. When the sample volume is equal to or greater than 480 litres and 200 graticule fields are examined, a calculated result below the limit of detection may be expressed as <0.01 f/ml. For sample volumes below 480 litres and graticule field counts below 200, the lower limit of accurate measurement will be higher.

(★) **ACTUAL FLOW RATE:** Determined by averaging the calibrated Intermediate flow rates and/or where differences in ambient temperature and/or pressure between the calibration and sampling sites are greater than 5%.

STAGE 3 RESULT (Passed) ~~Failed~~ Date: 23/10/18 Time: 1230

THE ENCLOSURE / DESIGNATED WORK AREA (CAN BE) / ~~CANNOT BE~~ DISMANTLED

Assessment carried out by: D. Phillips Signature: D Phillips

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Report No: J179721/5DP	Issue No: 1	Page 6 of 6

STAGE 4 OF 4		*Final assessment post enclosure / work area dismantling*		
4.1	Work area equipment and / or enclosure deconstruction process witnessed by the technician	(Yes)	~~No~~	COMMENTS:
4.2	Is the work area and surrounding areas free of ACM waste / debris	(Yes)	~~No~~	
4.3	Is plant and / or equipment within the area free of ACM waste / debris / remnants	(Yes)	~~No~~	
4.4	Is plant and / or equipment immediately adjacent to the area, free of ACM waste / debris / remnants	~~Yes~~	(No)	Refer to 2.4/2.7
4.5	Is the transit, waste route and skip location free of ACM waste / debris	(Yes)	~~No~~	
4.6	Reassurance air testing carried out during the deconstruction process	~~Yes~~	(No)	
STAGE 4 RESULT		(Passed)	~~Failed~~	Date: 23/10/18 Time: 1420

THE AREA (CAN BE) / ~~CANNOT BE~~ REOCCUPIED

Assessment carried out by: D. Phillips Signature: D Phillips

Contractor's representative acknowledgement

~~I have been advised by~~

~~that a failed Certificate of reoccupation will be issued because the area has failed stage:~~ ~~1~~ ~~2~~ ~~3~~ ~~4~~

I have been advised by D. Phillips

that the Certificate of reoccupation can be issued as the area has passed all 4 stages

(Complete one of the above and strike through the other option)

Contractor representative's Name: T Perkins Date: 23/10/18

Signature: Time: 1420

Certificate of reoccupation issue details

Copies of this certificate (with appendages where applicable) were issued to the following:

Copy 1 issued to: DSM Demolition LTD

Copy 2 issued to:

Other copies issued to:

Appended documents:

Technician's Name: D. Phillips Date: 23/10/18

Signature: D Phillips Time: 1420

Note: A copy of the Certificate of reoccupation must always be issued to the asbestos removal contractor.

The asbestos removal contractor requires a separate clearance certificate of inspection for the hygiene facility unless the unit is to remain on site for additional works.

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Asbestos Consultants Europe Ltd

Head office: Magnet Road, Grays, Essex, RM20 4DP

UKAS TESTING 0472

Certificate of Reoccupation

03851

Report No: J179721/6 DP	Issue No: 1	Page 1 of 6

UKAS accredited methods	We hereby certify that site assessment for reoccupation has been carried out in accordance with the Health and Safety Executive HSG248 and the Asbestos Consultants Europe Ltd Technical procedure document TPD 6.

ACCREDITED BY UKAS FOR STAGES 1, 2, 3 & 4 OF THE 4 STAGE CERTIFICATE OF REOCCUPATION

Customer's name & address	DSM DEMOLITION LTD, ARDEN HOUSE, ARDEN ROAD HEARTLANDS, Birmingham B8 1DE	
	Contact name: K Jones	Telephone No: 0121322 2225
Site address	FORMER JDE DISTRIBUTION FACILITY, SOUTHAM ROAD BANBURY OX16 2QU	
Contractor's name & address	AS PER CLIENT	
	Site supervisor's name: T Peverley	Telephone No: 07584028527

Contractor's representative who is responsible for confirming their inspection of the enclosure and / or work area is complete and satisfactory and who will acknowledge the outcome and findings reported by the ace technician

Representative's name: T Peverley

Areas to be assessed where work with asbestos has taken place	Enclosure No 24
Brief description of work undertaken	Removal of High level Pipe under fully Controlled Conditions
	Date(s) work carried out by contractor: 22/10/18 – 23/10/18

The contractor's confirmed that their inspection of the enclosure and/or work area is completed and satisfactory with all specified asbestos work completed	(Yes)	~~No~~	**Technician is not to proceed without contractors confirmation of a satisfactory inspection**

Anticipated start of the assessment:	Date: 23/10/18	Time: 08:00
Confirmed start of the assessment:	Date: 23/10/18	Time: 0820

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Report No: J179721/6DP	Issue No: 1	Page 2 of 6

STAGE 1 OF 4		*Preliminary check of site condition and job completeness*			
1.1	Plan of work checked and entire work area defined/agreed including method of removal when enclosure not used	(Yes)	~~No~~		COMMENTS:
1.2	Diagram or photos showing main work area features agreed with and signed by contractor	(Yes)	~~No~~		
1.3	Is any asbestos to remain in work area not in the contract to be removed	~~Yes~~	(No)		
1.4	Work area only (enclosures not used), clearly defined with physical barriers appropriately placed	~~Yes~~	~~No~~	(N/A)	
1.5	Enclosure intact and constructed to encompass the defined work area with reasonable working space	(Yes)	~~No~~	~~N/A~~	
1.6	Airlocks / Baglocks suitably constructed and at least 1m x 1m x 2m (height)	(Yes)	~~No~~	~~N/A~~	
1.7	Air extraction unit(s) fitted to enclosure and operating	(Yes)	~~No~~	~~N/A~~	
1.8	Hygiene facility still intact and operating, including air extraction	(Yes)	~~No~~		HF TO STAY ON SITE FOR FURTHER WORKS
1.9	Hygiene facility clean end compartment checked for cleanliness, hot / cold water and heating	(Yes)	~~No~~		
1.10	Hygiene facility shower area and dirty end compartments inspected and found clean and free from stored items	(Yes)	~~No~~		
1.11	Transit and waste route signs appropriately displayed	(Yes)	~~No~~		
1.12	Transit and waste route areas free from obvious signs of contamination / ACM waste / debris	(Yes)	~~No~~		GENERAL DUST PRESENT
1.13	Skip area free from obvious signs of contamination / ACM waste / debris	(Yes)	~~No~~	~~N/A~~	SKIP OUTSIDE BUILDING
1.14	Areas immediately adjacent enclosure / work area free from obvious signs of contamination / ACM waste / debris	(Yes)	~~No~~		
1.15	Work area only (inspected from barrier edge) for identification of any remedial action requirements prior to entry	~~Yes~~	~~No~~	(N/A)	
1.16	Enclosure inspected via viewing panels and/or CCTV for any remedial action requirements prior to entry	(Yes)	~~No~~	~~N/A~~	
1.17	Any additional checks (details of additional checks to be recorded in comments section)	~~Yes~~	(No)		

STAGE 1 RESULT	(Passed)	~~Failed~~	Date: 23/10/18	Time: 0850

Assessment carried out by: D. Phillips **Signature:** D Phillips

ADDITIONAL COMMENTS:

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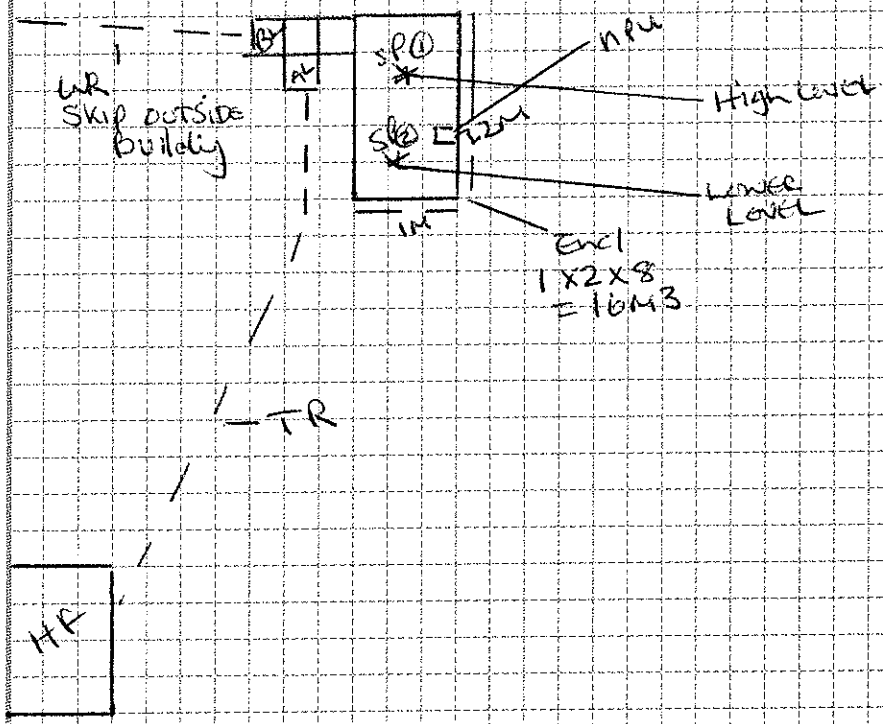
Report No: J179721/6 DP | Issue No: 1 | Page 3 of 6

Layout diagram of asbestos removal site

Site location: Enclosure No 24



Main work area features agreed with and signed by the asbestos removal contractor's representative and ace technician

Technician's name: D. Phillips | Contractor's name: T Peverley

Signature: D Phillips | Signature:

KEY:						
	Enclosure	EN	Waste skip	WS	Negative pressure unit	NPU
	Work area	WA	Airlock	AL	Transit route	TR
	Hygiene facility	HF	Baglock	BL	Sample point	SP

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Report No: J179721/6DP | Issue No: 1 | Page 4 of 6

STAGE 2 OF 4		Visual inspection			
2.1	Is there adequate lighting and essential equipment within the enclosure / work area	(Yes)	~~No~~		COMMENTS:
2.2	Is the enclosure internal construction intact	(Yes)	~~No~~	~~N/A~~	
2.3	Is the enclosure / work area dry	(Yes)	~~No~~		
2.4	Is there plant / equipment within the enclosure / work area	(Yes)	~~No~~		SEE COMMENTS BELOW
2.5	Is there the presence of fine settled dust to any surfaces within the enclosure / work area	~~Yes~~	(No)		
2.6	Has all the ACM specified in the plan of work been removed / encapsulated	(Yes)	~~No~~		
2.7	Is there ACM remaining within the enclosure / work area not specified for removal in the plan of work	(Yes)	~~No~~		SEE COMMENTS BELOW
2.8	Is there evidence of inaccessible ACM or reason to suspect its presence within the enclosure / work area	~~Yes~~	(No)		
2.9	Are there surfaces within the enclosure / work area where it is almost impossible to remove all the ACM, sufficient for a visual inspection to pass as normal	~~Yes~~	(No)		
2.10	Is there loose rubble flooring within the enclosure / work area	~~Yes~~	(No)		
2.11	Have waste bags, materials, unnecessary equipment been removed from the enclosure / work area	(Yes)	~~No~~		
2.12	Is there evidence or reason to suspect the general use of sprayed sealants	~~Yes~~	(No)		
2.13	Is air extraction equipment in situ and in operation	(Yes)	~~No~~	~~N/A~~	
2.14	Has each air extractor been fitted with new pre-filters	(Yes)	~~No~~	~~N/A~~	
2.15	**Stage 2 visual inspection duration:**	15 Mins			

STAGE 2 RESULT (Passed) / ~~Failed~~ Date: 23/10/18 Time: 10 20

THE ENCLOSURE INCLUDING AIRLOCK AND BAGLOCK (WHEN BAGLOCK CONSTRUCTED) OR DESIGNATED WORK AREA IS (FREE) / ~~NOT FREE~~ OF VISIBLE ASBESTOS WASTE, DEBRIS AND SURFACE DUST

Assessment carried out by: D - Phillips **Signature:** DPhillips

ADDITIONAL COMMENTS: The pipe is still present and has been wrapped in poly apart from a small section which has been cleared to allow a cut point. This is clean no lagging visible, following a satisfactory air test the rest of the enclosure shall be removed to allow the scaffolding tower to be moved to the next area, scaffolding will be inspected following completion of all works.

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03851

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STAGE 3 OF 4		Clearance air monitoring						
3.1	Estimated size of enclosure	16 ~~m³~~ / (ft³)		3.2	Are all areas within the enclosure / work area dry	(Yes)	~~No~~	
3.3	Is there evidence or reason to suspect the use of sprayed sealant	~~Yes~~	(No)	3.4	Is air extraction equipment to the enclosure switched off with pre-filters capped and sealed	(Yes)	~~No~~	~~N/A~~
3.5	Number of air samples collected	2		3.6	Method of dust raising activities	BRUSH		
	Number of air measurements required	2			Duration of dust raising activities	3 MINS		

Technical data & Clearance indicator air sampling details

Lab Location: Permanent / ~~Site~~ / (Mobile) If Mobile Lab - Reg No: AE66 UTG Field Blank (FB) nominated: ~~Yes~~ (No)

Microscope serial number	5493	Phase contrast telescope number	5085
Digital Thermometer / Barometer / Timepiece	5816	Working flow meter serial number	5888
Stage micrometer serial number	5012	NPL test slide serial number	5533

Limit of quantification for following measurements = 0.01 f/ml | Tally Counters 5891 5893

Analyst's name: D. Phillips Sampler's name: D. Phillips

Sample Number	Analyst Initial	Sampler Initial	Pump Number	Cowl Number	Start Time	Finish Time	Duration (min)	Intermediate Flow Rate (l/min) Start	60min	120min	180min	Finish
1	DP	DP	5196	5	1021	1121	60	8.0	/	/	/	8.0
2	DP	DP	8757	6	1023	1123	60	8.0	/	/	/	8.0

END

Sample Number	Location Refer to plan Page No: 3	Temp (°C)	Press (mbar)	★ Actual flow rate (l/min)	Volume (Litres)		Number of Fields	Number of Fibres		Calculated Result (f/ml)	# Reported Result (f/ml)
1	SP(1)	11	1033	8.0	480	/	200	2½	/	0.001	<0.01
2	SP(2)	11	1033	8.0	480	/	200	3	/	0.002	<0.01

END

Microscope calibrated (YES) ~~NO~~ NPL band resolution: 5 Graticule diameter: 100 µm

Membrane filters used: Nitrocellulose / 0.8 µm pore size / 25 mm Dia / Printed Grid Batch No. 1299 Exposed filter: 397.61 mm²

We hereby certify that the Asbestos Fibres in Air Sampling and Analysis has been carried out in accordance with the Asbestos Consultants Europe Ltd Technical Procedure Document TPD 6 and the HSE's HSG248. **The above tests meet the criteria set out in the international standard ISO / IEC 17025**

NOTE:

(#) UNCERTAINTY OF MEASUREMENT: The lower limit of quantification for the above method is stated in HSG248 as about 0.01 fibres/ml. When the sample volume is equal to or greater than 480 litres and 200 graticule fields are examined, a calculated result below the limit of detection may be expressed as <0.01 f/ml. For sample volumes below 480 litres and graticule field counts below 200, the lower limit of accurate measurement will be higher.

(★) ACTUAL FLOW RATE: Determined by averaging the calibrated Intermediate flow rates and/or where differences in ambient temperature and/or pressure between the calibration and sampling sites are greater than 5%.

STAGE 3 RESULT (Passed) ~~Failed~~ Date: 23/10/18 Time: 1245

THE ENCLOSURE / DESIGNATED WORK AREA CAN BE / ~~CANNOT BE~~ DISMANTLED

Assessment carried out by: D. Phillips Signature: D Phillips

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Report No: J179721/6 DP	Issue No: 1	Page 6 of 6

STAGE 4 OF 4		*Final assessment post enclosure / work area dismantling*			
4.1	Work area equipment and / or enclosure deconstruction process witnessed by the technician	(Yes)	~~No~~	COMMENTS:	
4.2	Is the work area and surrounding areas free of ACM waste / debris	(Yes)	~~No~~		
4.3	Is plant and / or equipment within the area free of ACM waste / debris / remnants	(Yes)	~~No~~		
4.4	Is plant and / or equipment immediately adjacent to the area, free of ACM waste / debris / remnants	~~Yes~~	(No)	Refer to 2.4/2.7	
4.5	Is the transit, waste route and skip location free of ACM waste / debris	(Yes)	~~No~~		
4.6	Reassurance air testing carried out during the deconstruction process	~~Yes~~	(No)		
STAGE 4 RESULT		(Passed)	~~Failed~~	Date: 23/10/18	Time: 1440

THE AREA (CAN BE) / ~~CANNOT BE~~ REOCCUPIED

Assessment carried out by: D. Phillips **Signature:** D Phillips

Contractor's representative acknowledgement

~~I have been advised by~~

~~that a failed Certificate of reoccupation will be issued because the area has failed stage:~~ ~~1~~ ~~2~~ ~~3~~ ~~4~~

I have been advised by D. Phillips

that the Certificate of reoccupation can be issued as the area has passed all 4 stages

(Complete one of the above and strike through the other option)

Contractor representative's Name: T Reverley **Date:** 23/10/18

Signature: **Time:** 1440

Certificate of reoccupation issue details

Copies of this certificate (with appendages where applicable) were issued to the following:

Copy 1 issued to: DSM Demolition LTD

Copy 2 issued to:

Other copies issued to:

Appended documents:

Technician's Name: D. Phillips **Date:** 23/10/18

Signature: D Phillips **Time:** 1440

Note: A copy of the Certificate of reoccupation must always be issued to the asbestos removal contractor.

The asbestos removal contractor requires a separate clearance certificate of inspection for the hygiene facility unless the unit is to remain on site for additional works.

Asbestos Consultants Europe Ltd

Head office: Magnet Road, Grays, Essex, RM20 4DP

UKAS TESTING 0472

Test Details

10781

Report No: J179997/04 AS	Issue No: 01	Page 01 of 04

Customer's name & address	DSM DEMOLITION LIMITED, ARDEN HOUSE, ARDEN ROAD, BURMINGHAM, B8 1DE
Site address	FORMER JDE BANBURY, SOUTHAM ROAD, BANBURY, OXFORDSHIRE, OX16 2QU

TECHNICAL DATA COUNTERS:- 279 + 280

Lab Location: Permanent / Site / (Mobile) If Mob Lab - Reg No:	AE66UTB	Field Blank (FB) nominated: (YES) / NO	
Microscope serial number	286	Phase contrast telescope number	287
Digital Thermometer / Barometer / Timepiece number	5115	Working flow meter serial number	5756
Stage micrometer serial number	34	NPL test slide serial number	391

SCOPE OF WORK

PERSONAL AIR MONITORING CARRIED OUT ON MARK WATTS OF DSM DURING REMOVAL OF PRE WRAPPED (INSULATION) PIPE WORK WITHIN WORK AREA N°2.

PERSONAL AIR MONITORING CARRIED OUT ON TERRY PEVERLEY WITHIN FINISHED GOODS EAST ~~BUILDING~~ AB, BUILDING DURING DE-SHEETING OF ENCLOSURE.

END

(Opinions & interpretations expressed herein are outside the scope of UKAS accreditation)

Technician authorising testing documentation : A. BOND Issue Date: 25/10/18

Technician's Signature:

ace

Layout Diagram

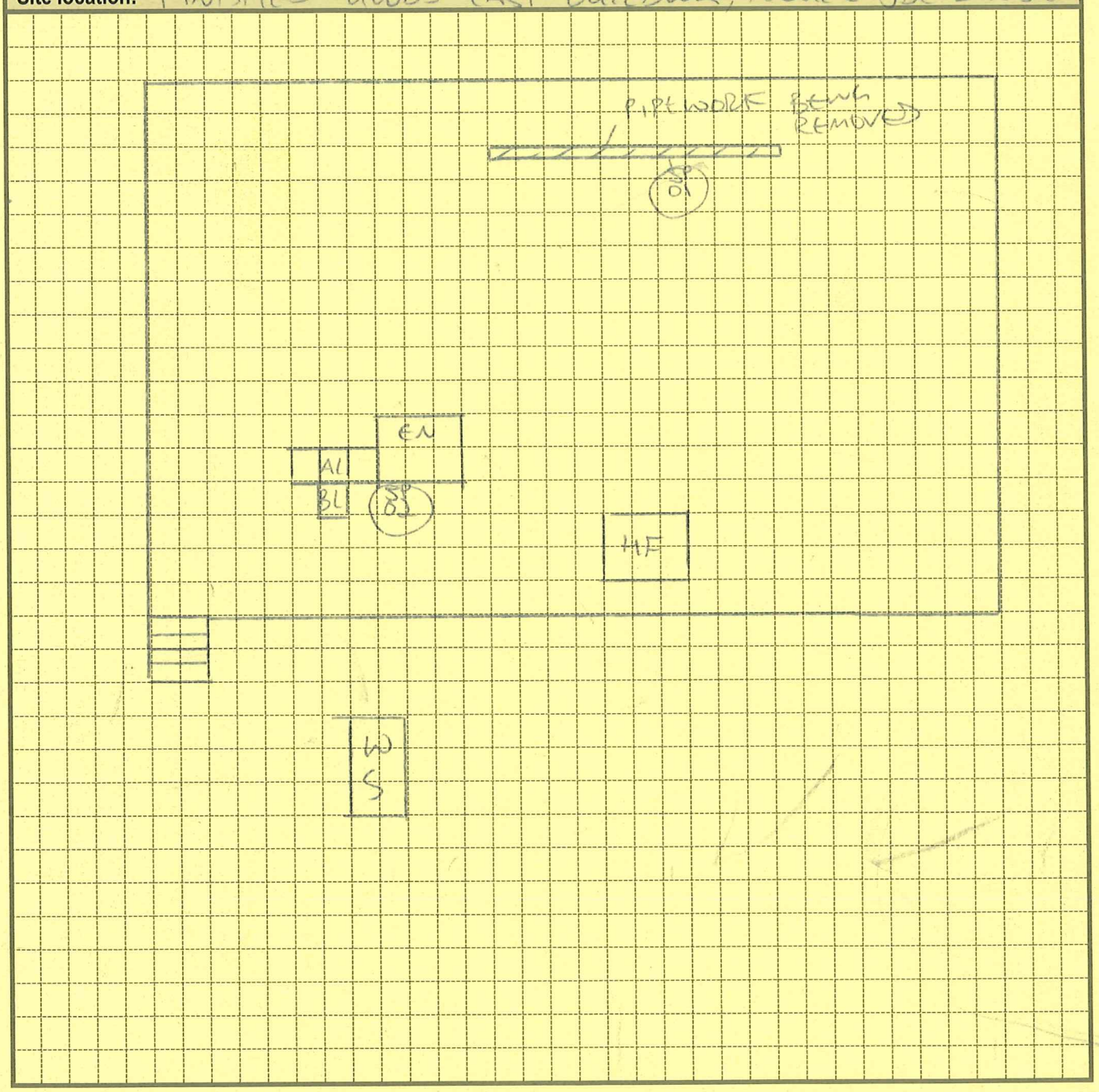
09361

Report No: J 179997/04 AB	Issue No: 01	Page 02 of 04

Technicians Name(s): A. BOND

Date: 25/10/18

Site location: FINISHED GOODS EAST BUILDING, FORMER JDE BANBURY



KEY:						
	Enclosure	EN	Waste skip	WS	Negative pressure unit	NPU
	Work area	WA	Airlock	AL	Transit route	TR
	Hygiene facility	HF	Baglock	BL	Sample point	SP

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Test Certificate

13513

Report No: J179997/04 AB	Issue No: 01	Page 3 of 4

Technicians Name(s): A. BOND Test Date: 25/10/13

Test Location: FORMER JDE

Type of Test: Background (B), Leak (L), Clearance (C), Reassurance (R), Personal (P), Work Area (WA)

Sample Number	Analyst Initial	Sampler Initial	Pump Number	Cowl Number	Test Type	Start Time	Finish Time	Duration (min)	Intermediate Flow Rate (l/min)				
									Start	60 min	120 min	180 min	Finish
01	AB	AB	7759	01	P	08:12	08:52	40	2.0	/	/	/	2.0
02	AB	AB	7905	02	P	13:02	13:42	40	2.0	/	/	/	2.0
03	N/A	AB	—	FIELD	BLANK	—	—	—	—	—	—	—	—
—	—	—	—	—	END	—	—	—	—	—	—	—	—

Sample Number	Location Refer to plan Page No. 02	Temp (°C)	Pressure (mbar)	★Actual flow rate (l/min)	Volume (Litres)		Number of Fields	Number of Fibres		Calculated Result (f/ml)	# Reported Result (f/ml)
01	SP01	10	1014	2.0	80	/	100	3	/	0.018	<0.12
02	SP02	10	1014	2.0	80	/	100	2½	/	0.012	<0.12
03	—	—	FIELD	BLANK	—	—	NOT READ	—	—	—	—
—	—	—	—	END	—	—	—	—	—	—	—

Limit of quantification for above air sampling measurements = 0.12 f/ml

Total Number of samples this page: 2

Microscope calibrated YES / NO NPL band resolution: 5 Graticule diameter: 100 µm

Membrane filters used: Nitrocellulose / 0.8 µm pore size / 25 mm Dia / Printed Grid Batch No. 1309 Exposed filter: 347.61 mm²

RESULTS OF ABOVE AIR MONITORING TESTS HAVE: PASSED / FAILED

We hereby certify that the Asbestos Fibres in Air Sampling and Analysis has been carried out in accordance with the Asbestos Consultants Europe Ltd Technical Procedure Document TPD6 and the HSE's HSG248. Any deviations from these methods are shown in the observation section of Test Report.

The above tests meet the criteria set out in the international standard ISO/IEC 17025

NOTE:

(#) UNCERTAINTY OF MEASUREMENT: The lower limit of quantification for the above method is stated in HSG248 as about 0.01 fibres/ml. When the sample volume is equal to or greater than 480 litres and 200 graticule fields are examined, a calculated result below the limit of detection may be expressed as <0.01 f/ml. For sample volumes below 480 litres and graticule field counts below 200, the lower limit of accurate measurement will be higher.

(★) ACTUAL FLOW RATE: Determined by averaging the calibrated Intermediate flow rates and/or where differences in ambient temperature and/or pressure between the calibration and sampling sites are greater than 5%.

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Test Report

09323

Report No: J179997/04 AB	Issue No: 01	Page 4 of 4

Technicians Name(s): A. BOND Test Date: 25/10/13

Test Location: FORMER JDE BANBURY

REPORT DETAILS

(Include any variations from standard procedures; relevant environmental conditions that significantly influenced results; any incidents of elevated fibre levels; required actions resulting from any incidents etc)

ACE ON SITE.
UPON ANALYSIS BOTH PERSONAL AIR SAMPLES WERE FOUND TO BE SATISFACTORY + BELOW THE LIMIT OF QUANTIFICATION (0.12 f/ml).

END

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Asbestos Consultants Europe Ltd

Head office: Magnet Road, Grays, Essex, RM20 4DP

UKAS TESTING 0472

Certificate of Reoccupation

03793

Report No: J179997/05 AB	Issue No: 01	Page 01 of 06

UKAS accredited methods	We hereby certify that site assessment for reoccupation has been carried out in accordance with the Health and Safety Executive HSG248 and the Asbestos Consultants Europe Ltd Technical procedure document TPD 6.

ACCREDITED BY UKAS FOR STAGES 1, 2, 3 & 4 OF THE 4 STAGE CERTIFICATE OF REOCCUPATION

Customer's name & address	DSM DEMOLITION LIMITED, ARDEN HOUSE, ARDEN ROAD, BIRMINGHAM, B8 1DE	
	Contact name: T. PEVERLEY	Telephone No: 07584028527
Site address	FORMER JDE BANBURY, SOUTHAM ROAD, BANBURY, OXFORDSHIRE, OX16 2QH	
Contractor's name & address	SAME AS CUSTOMER	
	Site supervisor's name: SEE ABOVE	Telephone No: SEE ABOVE

Contractor's representative who is responsible for confirming their inspection of the enclosure and / or work area is complete and satisfactory and who will acknowledge the outcome and findings reported by the ace technician

Representative's name: TERRY PEVERLEY

Areas to be assessed where work with asbestos has taken place	ENCLOSURE 25 WITHIN FINISHED GOODS EAST BUILDING
Brief description of work undertaken	REMOVAL OF INSULATION TO PIPEWORK TO CREATE CUTTING POINT.
	Date(s) work carried out by contractor: 24/10/18

The contractor's confirmed that their inspection of the enclosure and/or work area is completed and satisfactory with all specified asbestos work completed	(Yes)	~~No~~	Technician is not to proceed without contractors confirmation of a satisfactory inspection

Anticipated start of the assessment:	Date: 25/10/18	Time: 8.00 AM
Confirmed start of the assessment:	Date: 25/10/18	Time: 7.40 AM

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Report No: J179997/05 AB	Issue No: 01	Page 02 of 06

STAGE 1 OF 4		*Preliminary check of site condition and job completeness*			
1.1	Plan of work checked and entire work area defined/agreed including method of removal when enclosure not used	(Yes)	~~No~~		COMMENTS:
1.2	Diagram or photos showing main work area features agreed with and signed by contractor	(Yes)	~~No~~		
1.3	Is any asbestos to remain in work area not in the contract to be removed	~~Yes~~	(No)		
1.4	Work area only (enclosures not used), clearly defined with physical barriers appropriately placed	~~Yes~~	~~No~~	(N/A)	
1.5	Enclosure intact and constructed to encompass the defined work area with reasonable working space	(Yes)	~~No~~	~~N/A~~	
1.6	Airlocks / Baglocks suitably constructed and at least 1m x 1m x 2m (height)	(Yes)	~~No~~	~~N/A~~	
1.7	Air extraction unit(s) fitted to enclosure and operating	(Yes)	~~No~~	~~N/A~~	
1.8	Hygiene facility still intact and operating, including air extraction	(Yes)	~~No~~		
1.9	Hygiene facility clean end compartment checked for cleanliness, hot / cold water and heating	(Yes)	~~No~~		
1.10	Hygiene facility shower area and dirty end compartments inspected and found clean and free from stored items	(Yes)	~~No~~		
1.11	Transit and waste route signs appropriately displayed	(Yes)	~~No~~		
1.12	Transit and waste route areas free from obvious signs of contamination / ACM waste / debris	(Yes)	~~No~~		
1.13	Skip area free from obvious signs of contamination / ACM waste / debris	(Yes)	~~No~~	~~N/A~~	
1.14	Areas immediately adjacent enclosure / work area free from obvious signs of contamination / ACM waste / debris	(Yes)	~~No~~		
1.15	Work area only (inspected from barrier edge) for identification of any remedial action requirements prior to entry	~~Yes~~	~~No~~	(N/A)	
1.16	Enclosure inspected via viewing panels and/or CCTV for any remedial action requirements prior to entry	(Yes)	~~No~~	~~N/A~~	
1.17	Any additional checks (details of additional checks to be recorded in comments section)	~~Yes~~	(No)		

STAGE 1 RESULT	(Passed)	~~Failed~~	Date: 25/10/18	Time: 08:22

Assessment carried out by: A. BOND **Signature:** [signature]

ADDITIONAL COMMENTS: ~~AF~~ AB 1.8 - HYGIENE FACILITY TO STAY IN SITU FOR FURTHER WORKS. 1.12 - GENERAL DUST PRESENT DUE TO ON GOING WORKS. 1.13 - SKIP LOCATED OUTSIDE BUILDING.

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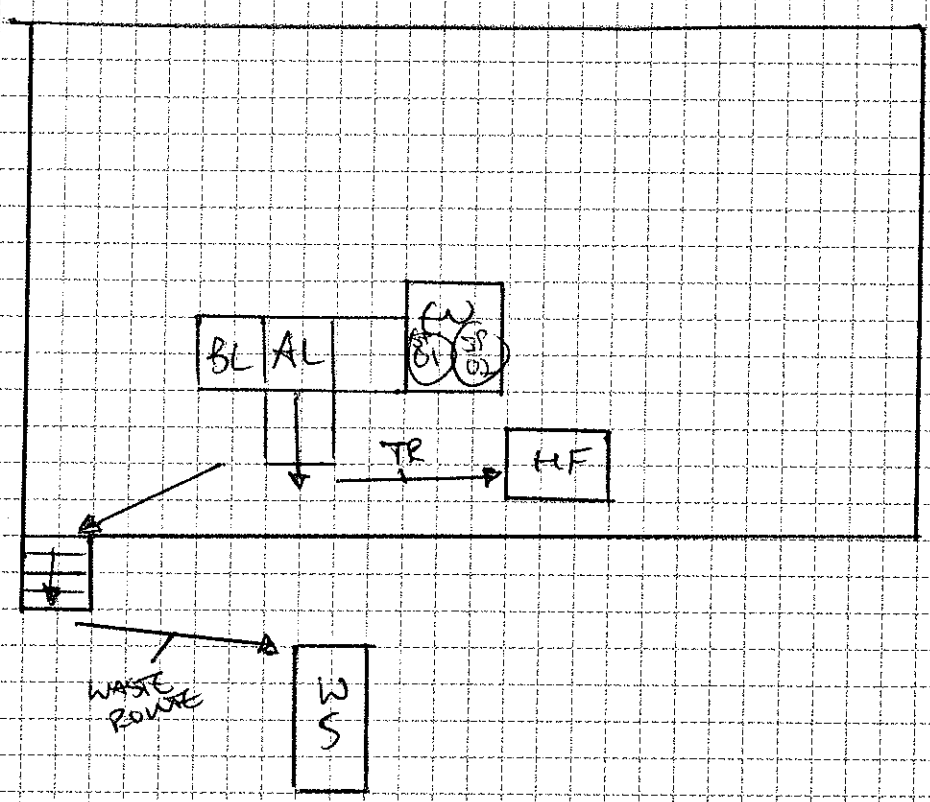
Report No: J179997/05 AB	Issue No: 01	Page 03 of 06

Layout diagram of asbestos removal site

Site location: FINISHED GOODS CAST BUILDING, FORMER JDE BANBURY



ENCLOSURE DIMENSIONS.

LENGTH	WIDTH	HEIGHT	TOTAL V
2m	× 1m	× 8m	= 16 m³

2 BAGS REQUIRED.

Main work area features agreed with and signed by the asbestos removal contractor's representative and ace technician

Technician's name: A. BAND Contractor's name: T. PENDLEBURY

Signature: Signature:

KEY:						
	Enclosure	EN	Waste skip	WS	Negative pressure unit	NPU
	Work area	WA	Airlock	AL	Transit route	TR
	Hygiene facility	HF	Baglock	BL	Sample point	SP

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Report No: J179997/05 AB | Issue No: 01 | Page 04 of 06

STAGE 2 OF 4		*Visual inspection*			
2.1	Is there adequate lighting and essential equipment within the enclosure / work area	(Yes)	~~No~~		COMMENTS:
2.2	Is the enclosure internal construction intact	(Yes)	~~No~~	~~N/A~~	
2.3	Is the enclosure / work area dry	(Yes)	~~No~~		
2.4	Is there plant / equipment within the enclosure / work area	~~Yes~~	(No)		
2.5	Is there the presence of fine settled dust to any surfaces within the enclosure / work area	~~Yes~~	(No)		
2.6	Has all the ACM specified in the plan of work been removed / encapsulated	(Yes)	~~No~~		
2.7	Is there ACM remaining within the enclosure / work area not specified for removal in the plan of work	~~Yes~~	(No)		
2.8	Is there evidence of inaccessible ACM or reason to suspect its presence within the enclosure / work area	~~Yes~~	(No)		
2.9	Are there surfaces within the enclosure / work area where it is almost impossible to remove all the ACM, sufficient for a visual inspection to pass as normal	~~Yes~~	(No)		
2.10	Is there loose rubble flooring within the enclosure / work area	~~Yes~~	(No)		
2.11	Have waste bags, materials, unnecessary equipment been removed from the enclosure / work area	(Yes)	~~No~~		
2.12	Is there evidence or reason to suspect the general use of sprayed sealants	~~Yes~~	(No)		
2.13	Is air extraction equipment in situ and in operation	(Yes)	~~No~~	~~N/A~~	
2.14	Has each air extractor been fitted with new pre-filters	(Yes)	~~No~~	~~N/A~~	
2.15	**Stage 2 visual inspection duration:**	22mins			

STAGE 2 RESULT (Passed) ~~Failed~~ **Date:** 25/10/13 **Time:** 08:55

THE ENCLOSURE INCLUDING AIRLOCK AND BAGLOCK (WHEN BAGLOCK CONSTRUCTED) OR DESIGNATED WORK AREA IS (FREE) / NOT FREE OF VISIBLE ASBESTOS WASTE, DEBRIS AND SURFACE DUST

Assessment carried out by: A. BOND **Signature:** [signature]

ADDITIONAL COMMENTS: THE PIPE REMAINS PRESENT + WRAPPED IN POLYTHENE EXCLUDING A SMALL SECTION WHICH HAS BEEN STRIPPED OF THE LAGGING TO ALLOW THE CUT POINT. THIS AREA WAS FOUND TO BE CLEAN WITH NO VISABLE LAGGING OR RESIDUES.

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Report No: J179497/05 AB	Issue No: D1	Page 05 of 06

STAGE 3 OF 4		Clearance air monitoring						
3.1	Estimated size of enclosure	16 ~~m²~~ (m³)		3.2	Are all areas within the enclosure / work area dry	(Yes)	~~No~~	
3.3	Is there evidence or reason to suspect the use of sprayed sealant	~~Yes~~	(No)	3.4	Is air extraction equipment to the enclosure switched off with pre-filters capped and sealed	(Yes)	~~No~~	~~N/A~~
3.5	Number of air samples collected	2		3.6	Method of dust raising activities	BRUSH		
	Number of air measurements required	2			Duration of dust raising activities	3 MINS		

Technical data & Clearance indicator air sampling details

Lab Location: Permanent / Site (Mobile) If Mobile Lab - Reg No: AE66 UTB Field Blank (FB) nominated: (Yes) ~~No~~

Microscope serial number	286	Phase contrast telescope number	287
Digital Thermometer / Barometer / Timepiece	SIIS	Working flow meter serial number	5756
Stage micrometer serial number	34	NPL test slide serial number	391

Limit of quantification for following measurements = 0.01 f/ml | 1 COUNTERS :- 279 + 280

Analyst's name: A. BOND Sampler's name: A. BOND

Sample Number	Analyst Initial	Sampler Initial	Pump Number	Cowl Number	Start Time	Finish Time	Duration (min)	Intermediate Flow Rate (l/min) Start	60min	120min	180min	Finish
01	AB	AB	07580	01	08.57	09.57	60	8.0	/	/	/	8.0
02	AB	AB	07581	02	08.59	09.59	60	8.0	/	/	/	8.0
03	N/A	AB	FIELD BLANK									
END												

Sample Number	Location Refer to plan Page No. 03	Temp (°C)	Press (mbar)	★ Actual flow rate (l/min)	Volume (Litres)	Number of Fields	Number of Fibres	Calculated Result (f/ml)	# Reported Result (f/ml)
01	SP01	10	1014	8.0	480 /	200	4 /	0.002	< 0.01
02	SP02	10	1014	8.0	48 /	200	8 /	0.004	< 0.01
03	FIELD BLANK					NOT READ			
END									

Microscope calibrated (YES) ~~NO~~ NPL band resolution: 5 Graticule diameter: 100 µm

Membrane filters used: Nitrocellulose / 0.8 µm pore size / 25 mm Dia / Printed Grid Batch No. 1309 Exposed filter: 397.61 mm²

We hereby certify that the Asbestos Fibres in Air Sampling and Analysis has been carried out in accordance with the Asbestos Consultants Europe Ltd Technical Procedure Document TPD 6 and the HSE's HSG248. **The above tests meet the criteria set out in the international standard ISO / IEC 17025**

NOTE:

(#) UNCERTAINTY OF MEASUREMENT: The lower limit of quantification for the above method is stated in HSG248 as about 0.01 fibres/ml. When the sample volume is equal to or greater than 480 litres and 200 graticule fields are examined, a calculated result below the limit of detection may be expressed as <0.01 f/ml. For sample volumes below 480 litres and graticule field counts below 200, the lower limit of accurate measurement will be higher.

(★) ACTUAL FLOW RATE: Determined by averaging the calibrated intermediate flow rates and/or where differences in ambient temperature and/or pressure between the calibration and sampling sites are greater than 5%.

STAGE 3 RESULT (Passed) ~~Failed~~ Date: 25/10/18 Time: 10.59

THE ENCLOSURE / DESIGNATED WORK AREA (CAN BE) / ~~CANNOT BE~~ DISMANTLED

Assessment carried out by: A. BOND Signature:

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Report No: J179997/05 AB | Issue No: 01 | Page 06 of 06

STAGE 4 OF 4		*Final assessment post enclosure / work area dismantling*		
4.1	Work area equipment and / or enclosure deconstruction process witnessed by the technician	(Yes)	~~No~~	COMMENTS:
4.2	Is the work area and surrounding areas free of ACM waste / debris	(Yes)	~~No~~	
4.3	Is plant and / or equipment within the area free of ACM waste / debris / remnants	(Yes)	~~No~~	
4.4	Is plant and / or equipment immediately adjacent to the area, free of ACM waste / debris / remnants	(Yes)	~~No~~	
4.5	Is the transit, waste route and skip location free of ACM waste / debris	(Yes)	~~No~~	
4.6	Reassurance air testing carried out during the deconstruction process	~~Yes~~	(No)	
STAGE 4 RESULT		(Passed)	~~Failed~~	Date: 25/10/18 Time: 13:20

THE AREA (CAN BE) / ~~CANNOT BE~~ REOCCUPIED

Assessment carried out by: A. BOND Signature: [signature]

Contractor's representative acknowledgement

~~I have been advised by~~

~~that a failed Certificate of reoccupation will be issued because the area has failed stage: 1 2 3 4~~

I have been advised by A. BOND

that the Certificate of reoccupation can be issued as the area has passed all 4 stages

(Complete one of the above and strike through the other option)

Contractor representative's Name: T. PERCIVAL Date: 25/10/18

Signature: [signature] Time: 13:20

Certificate of reoccupation issue details

Copies of this certificate (with appendages where applicable) were issued to the following:

Copy 1 issued to: DSM DEMOLITION

Copy 2 issued to: N/A

Other copies issued to: N/A

Appended documents: N/A

Technician's Name: A. BOND Date: 25/10/18

Signature: [signature] Time: 13:20

Note: A copy of the Certificate of reoccupation must always be issued to the asbestos removal contractor.

The asbestos removal contractor requires a separate clearance certificate of inspection for the hygiene facility unless the unit is to remain on site for additional works.

Asbestos Consultants Europe Ltd. Registered in England No. 6464301 Registered office: Europa Park, London Road, Grays, Essex, RM20 4DB
Head Office Tel: 01375 366777 web: www.aceconsultants.co.uk

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Head office: Magnet Road, Grays, Essex, RM20 4DP

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03794

Report No: J179997/06 AB	Issue No: 01	Page 01 of 06

UKAS accredited methods	We hereby certify that site assessment for reoccupation has been carried out in accordance with the Health and Safety Executive HSG248 and the Asbestos Consultants Europe Ltd Technical procedure document TPD 6.

ACCREDITED BY UKAS FOR STAGES 1, 2, 3 & 4 OF THE 4 STAGE CERTIFICATE OF REOCCUPATION

Customer's name & address	DSM DEMOLITION LIMITED, ARDEN HOUSE, ARDEN ROAD, BIRMINGHAM, B8 1DE
	Contact name: T. PEVERLEY — Telephone No: 07584028527
Site address	FORMER JDE BANBURY, JOWITT'S ROAD, BANBURY, OXFORDSHIRE, OX16 2QU
Contractor's name & address	SAME AS CUSTOMER
	Site supervisor's name: SEE ABOVE — Telephone No: SEE ABOVE

Contractor's representative who is responsible for confirming their inspection of the enclosure and / or work area is complete and satisfactory and who will acknowledge the outcome and findings reported by the ace technician

Representative's name: TERRY PEVERLEY

Areas to be assessed where work with asbestos has taken place	ENCLOSURE 29 WITHIN FINISHED GOODS EAST BUILDING
Brief description of work undertaken	REMOVAL OF INSULATION TO PIPEWORK TO CREATE CUTTING POINT
	Date(s) work carried out by contractor: 24/10/18

The contractor's confirmed that their inspection of the enclosure and/or work area is completed and satisfactory with all specified asbestos work completed	(Yes)	No	**Technician is not to proceed without contractors confirmation of a satisfactory inspection**

Anticipated start of the assessment:	Date: 25/10/18	Time: 08:00AM
Confirmed start of the assessment:	Date: 25/10/18	Time: 7.40AM

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Report No: J179997/06 AS | Issue No: D 1 | Page 02 of 06

STAGE 1 OF 4		Preliminary check of site condition and job completeness			
1.1	Plan of work checked and entire work area defined/agreed including method of removal when enclosure not used	(Yes)	~~No~~		COMMENTS:
1.2	Diagram or photos showing main work area features agreed with and signed by contractor	(Yes)	~~No~~		
1.3	Is any asbestos to remain in work area not in the contract to be removed	~~Yes~~	(No)		
1.4	Work area only (enclosures not used), clearly defined with physical barriers appropriately placed	~~Yes~~	~~No~~	(N/A)	
1.5	Enclosure intact and constructed to encompass the defined work area with reasonable working space	(Yes)	~~No~~	~~N/A~~	
1.6	Airlocks / Baglocks suitably constructed and at least 1m x 1m x 2m (height)	(Yes)	~~No~~	~~N/A~~	
1.7	Air extraction unit(s) fitted to enclosure and operating	(Yes)	~~No~~	~~N/A~~	
1.8	Hygiene facility still intact and operating, including air extraction	(Yes)	~~No~~		STANDING BY WITH FOR FURTHER WORKS
1.9	Hygiene facility clean end compartment checked for cleanliness, hot / cold water and heating	(Yes)	~~No~~		
1.10	Hygiene facility shower area and dirty end compartments inspected and found clean and free from stored items	(Yes)	~~No~~		
1.11	Transit and waste route signs appropriately displayed	(Yes)	~~No~~		
1.12	Transit and waste route areas free from obvious signs of contamination / ACM waste / debris	(Yes)	~~No~~		GENERAL DUST PRESENT DUE TO ON GOING WORKS.
1.13	Skip area free from obvious signs of contamination / ACM waste / debris	(Yes)	~~No~~	~~N/A~~	LOCATED OUTSIDE BUILDING
1.14	Areas immediately adjacent enclosure / work area free from obvious signs of contamination / ACM waste / debris	(Yes)	~~No~~		
1.15	Work area only (inspected from barrier edge) for identification of any remedial action requirements prior to entry	~~Yes~~	~~No~~	(N/A)	
1.16	Enclosure inspected via viewing panels and/or CCTV for any remedial action requirements prior to entry	(Yes)	~~No~~	~~N/A~~	
1.17	Any additional checks (details of additional checks to be recorded in comments section)	~~Yes~~	(No)		

STAGE 1 RESULT	(Passed)	~~Failed~~	Date: 25/10/18	Time: 08.22

Assessment carried out by: A. BOND Signature: [signature]

ADDITIONAL COMMENTS: N/A

QC/124-1 Issue date: 28.02.14

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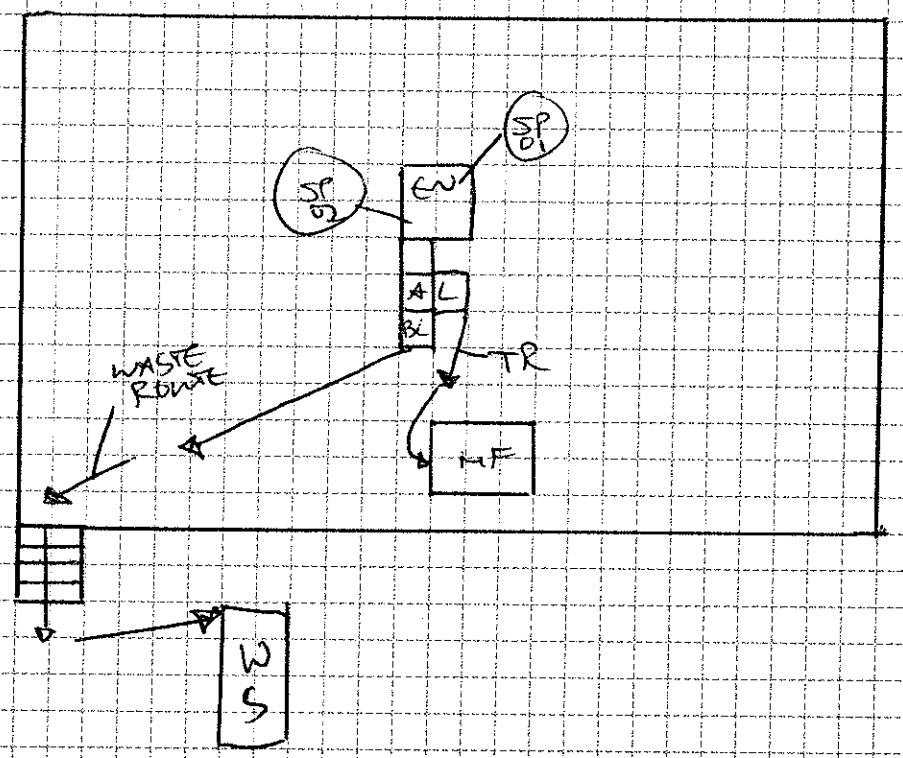
Report No: J179997/06 AB | Issue No: 01 | Page 03 of 06

Layout diagram of asbestos removal site

Site location: FROZEN GOODS EAST BUILDING, FORMER JDE BANBURY



ENCLOSURE DIMENSIONS:-

L	W	H	= TOTAL M³
2m	x 1m	x 8m	= 16m

2 PUMPS REQUIRED

Main work area features agreed with and signed by the asbestos removal contractor's representative and ace technician

Technician's name: A. BOND

Signature:

Contractor's name: T. PENDRICK

Signature:

KEY:						
	Enclosure	EN	Waste skip	WS	Negative pressure unit	NPU
	Work area	WA	Airlock	AL	Transit route	TR
	Hygiene facility	HF	Baglock	BL	Sample point	SP

QC/124-1 Issue date: 28.02.14

ace

Certificate of Reoccupation

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Report No: J179997/06 AB | Issue No: D1 | Page 04 of 06

STAGE 2 OF 4		Visual inspection			
2.1	Is there adequate lighting and essential equipment within the enclosure / work area	(Yes)	~~No~~		COMMENTS:
2.2	Is the enclosure internal construction intact	(Yes)	~~No~~	~~N/A~~	
2.3	Is the enclosure / work area dry	(Yes)	~~No~~		
2.4	Is there plant / equipment within the enclosure / work area	~~Yes~~	(No)		
2.5	Is there the presence of fine settled dust to any surfaces within the enclosure / work area	~~Yes~~	(No)		
2.6	Has all the ACM specified in the plan of work been removed / encapsulated	(Yes)	~~No~~		
2.7	Is there ACM remaining within the enclosure / work area not specified for removal in the plan of work	~~Yes~~	(No)		
2.8	Is there evidence of inaccessible ACM or reason to suspect its presence within the enclosure / work area	~~Yes~~	(No)		
2.9	Are there surfaces within the enclosure / work area where it is almost impossible to remove all the ACM, sufficient for a visual inspection to pass as normal	~~Yes~~	(No)		
2.10	Is there loose rubble flooring within the enclosure / work area	~~Yes~~	(No)		
2.11	Have waste bags, materials, unnecessary equipment been removed from the enclosure / work area	(Yes)	~~No~~		
2.12	Is there evidence or reason to suspect the general use of sprayed sealants	~~Yes~~	(No)		
2.13	Is air extraction equipment in situ and in operation	(Yes)	~~No~~	~~N/A~~	
2.14	Has each air extractor been fitted with new pre-filters	(Yes)	~~No~~	~~N/A~~	
2.15	**Stage 2 visual inspection duration:** 24mins				

STAGE 2 RESULT (Passed) ~~Failed~~ **Date:** 25/10/18 **Time:** 09.45

THE ENCLOSURE INCLUDING AIRLOCK (WHEN BAGLOCK CONSTRUCTED) OR DESIGNATED WORK AREA IS (FREE) / ~~NOT FREE~~ OF VISIBLE ASBESTOS WASTE, DEBRIS AND SURFACE DUST

Assessment carried out by: A. BOND **Signature:** [signature]

ADDITIONAL COMMENTS: THE PIPE REMAINS PRESENT + WRAPPED IN POLYTHENE EXCLUDING A SMALL SECTION WHICH HAS BEEN STRIPPED OF THE LAGGING TO ALLOW THE CUT POINT. THIS AREA WAS FOUND TO BE CLEAN WITH NO VISABLE LAGGING OR RESIDUES.

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Report No: J179997/06 AB	Issue No: 01	Page 05 of 06

STAGE 3 OF 4		Clearance air monitoring						
3.1	Estimated size of enclosure	16 ~~m²~~ / (m³)	3.2	Are all areas within the enclosure / work area dry	(Yes)	~~No~~	
3.3	Is there evidence or reason to suspect the use of sprayed sealant	~~Yes~~	(No)	3.4	Is air extraction equipment to the enclosure switched off with pre-filters capped and sealed	(Yes)	~~No~~	~~NA~~
3.5	Number of air samples collected	2		3.6	Method of dust raising activities	BRUSH		
	Number of air measurements required	2			Duration of dust raising activities	3 MINS		

Technical data & Clearance indicator air sampling details

Lab Location: ~~Permanent~~ / ~~Site~~ / (Mobile) If Mobile Lab - Reg No: AE66 UNS Field Blank (FB) nominated: (Yes) ~~No~~

Microscope serial number	286	Phase contrast telescope number	287
Digital Thermometer / Barometer / Timepiece	SIIS	Working flow meter serial number	5756
Stage micrometer serial number	34	NPL test slide serial number	391

Limit of quantification for following measurements = 0.01 f/ml. 1 COUNTERS :- 279 + 280

Analyst's name: A. BOND Sampler's name: A. BOND

Sample Number	Analyst Initial	Sampler Initial	Pump Number	Cowl Number	Start Time	Finish Time	Duration (min)	Intermediate Flow Rate (l/min) Start	60min	120min	180min	Finish
01	AB	AB	07582	05	09.47	10.47	60	8.0	/	/	/	8.0
02	AB	AB	07583	06	09.50	10.50	60	8.0	/	/	/	8.0
03	N/A	AB	—	—	FIELD	BLANK	—	—	—	—	—	—
—	—	—	—	—	—	END	—	—	—	—	—	—

Sample Number	Location Refer to plan Page No. 03	Temp (°C)	Press (mbar)	★ Actual flow rate (l/min)	Volume (Litres)	Number of Fields	Number of Fibres	Calculated Result (f/ml)	# Reported Result (f/ml)
01	SP01	10	1014	8.0	480	200	4	0.002	< 0.01
02	SP02	10	1014	8.0	480	200	7½	0.004	< 0.01
03	—	—	FIELD	BLANK	—	NOT	READ	—	—
—	—	—	—	END	—	—	—	—	—

Microscope calibrated (YES) ~~NO~~ NPL band resolution: 5 Graticule diameter: 100 µm

Membrane filters used: Nitrocellulose / 0.8 µm pore size / 25 mm Dia / Printed Grid Batch No. 1307 Exposed filter: 397.61 mm²

We hereby certify that the Asbestos Fibres in Air Sampling and Analysis has been carried out in accordance with the Asbestos Consultants Europe Ltd Technical Procedure Document TPD 6 and the HSE's HSG248. **The above tests meet the criteria set out in the international standard ISO / IEC 17025**

NOTE:

(#) **UNCERTAINTY OF MEASUREMENT:** The lower limit of quantification for the above method is stated in HSG248 as about 0.01 fibres/ml. When the sample volume is equal to or greater than 480 litres and 200 graticule fields are examined, a calculated result below the limit of detection may be expressed as <0.01 f/ml. For sample volumes below 480 litres and graticule field counts below 200, the lower limit of accurate measurement will be higher.

(★) **ACTUAL FLOW RATE:** Determined by averaging the calibrated Intermediate flow rates and/or where differences in ambient temperature and/or pressure between the calibration and sampling sites are greater than 5%.

STAGE 3 RESULT	(Passed)	~~Failed~~	Date: 25/10/13	Time: 11.50

THE ENCLOSURE / DESIGNATED WORK AREA (CAN BE) / ~~CANNOT BE~~ DISMANTLED

Assessment carried out by: A. BOND Signature:

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Report No: J179997/06 AB	Issue No: 01	Page 06 of 06

STAGE 4 OF 4	*Final assessment post enclosure / work area dismantling*		
4.1	Work area equipment and / or enclosure deconstruction process witnessed by the technician	(Yes) / ~~No~~	COMMENTS:
4.2	Is the work area and surrounding areas free of ACM waste / debris	(Yes) / ~~No~~	
4.3	Is plant and / or equipment within the area free of ACM waste / debris / remnants	(Yes) / ~~No~~	
4.4	Is plant and / or equipment immediately adjacent to the area, free of ACM waste / debris / remnants	(Yes) / ~~No~~	
4.5	Is the transit, waste route and skip location free of ACM waste / debris	(Yes) / ~~No~~	
4.6	Reassurance air testing carried out during the deconstruction process	~~Yes~~ / (No)	

STAGE 4 RESULT (Passed) / ~~Failed~~ Date: 25/10/18 Time: 13·32

THE AREA (CAN BE) / ~~CANNOT BE~~ REOCCUPIED

Assessment carried out by: A. BOND Signature: [signature]

Contractor's representative acknowledgement

~~I have been advised by~~

~~that a failed Certificate of reoccupation will be issued because the area has failed stage: 1 2 3 4~~

I have been advised by A. BOND

that the Certificate of reoccupation can be issued as the area has passed all 4 stages

(Complete one of the above and strike through the other option)

Contractor representative's Name: T. PENGELLY Date: 25/10/18

Signature: [signature] Time: 13·32

Certificate of reoccupation issue details

Copies of this certificate (with appendages where applicable) were issued to the following:

Copy 1 issued to: DSM DEMOLITION

Copy 2 issued to: N/A

Other copies issued to: N/A

Appended documents: N/A

Technician's Name: A. BOND Date: 25/10/18

Signature: [signature] Time: 13·32

Note: A copy of the Certificate of reoccupation must always be issued to the asbestos removal contractor.

The asbestos removal contractor requires a separate clearance certificate of inspection for the hygiene facility unless the unit is to remain on site for additional works.

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Head office: Magnet Road, Grays, Essex, RM20 4DP

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Report No: J179997/DJ01		Issue No: 1	Page 1 of 6
Customer's Name & Address		DSM Demolition Limited ,Arden House, Arden Road, Birmingham, B8 1DE ,	
		Contact Name: Keiron Jones	Telephone No: 0121 322 2225 / 07917 085959
Site Address		Former JDE Banbury, Southam Road, Banbury, Oxfordshire, OX16 2QU ,	
Asbestos Removal Contractor's: Name & Address		DSM Demolition Limited,Arden House, Arden Road, Birmingham, B8 1DE	
Site Supervisor Name:	T.Peverley	**Site Supervisor Tel:**	07584028527

Executive Summary

Contractor's representative who is responsible for confirming their inspection of the enclosure and / or work area is complete and satisfactory and who will acknowledge the outcome and findings reported by the ACE technician:
Representative's name: T.Peverley

Location of Work:	Enclosure 18 within Finished Goods East Building
Scope of Work:	A single screw fixed AIB panel behind in generally good condition is raw and will be removed inside a full enclosure. High level redundant heating pipe lagged with asbestos insulation will be removed inside a full enclosure. The insulation is in generally good condition. Amosite and chrysotile fibres have been identified.

The contractor's supervisor is to confirm that their inspection of the enclosure and/or work area is completed and satisfactory with all specified asbestos work completed. Technician is not to proceed without contractor's confirmation of a satisfactory inspection.
Site Supervisor's Signature:

UKAS accredited methods:	We hereby certify that site assessment for reoccupation has been carried out in accordance with the Health and Safety Executive HSG248 and the Asbestos Consultants Europe Ltd Technical procedure document TPD 6. **ACCREDITED BY UKAS FOR THE 4 STAGE CERTIFICATE OF REOCCUPATION**		
ACE Technical Equipment Used:	Microscope No: 00286	Phase contrast telescope No: 00287	Flow meter No: 05756
Tally Counter: 00279/00280	Digital Ther/Barometer - Timer No: /05115/	NPL test slide No: 00391	Stage micrometer No: 00034

Mobile Lab: Mobile Lab

Test Report:	***(Include a summary of test results and any incidents of elevated fibre levels; plus details of any variations from standard procedures; relevant environmental conditions that significantly influenced results and actions required as a result from any incidents etc)*** **Opinions & interpretations expressed herein are outside the scope of UKAS accreditation**

Confirmed start of the assessment:	**Date: 24/10/2018**	**Time: 07:10**

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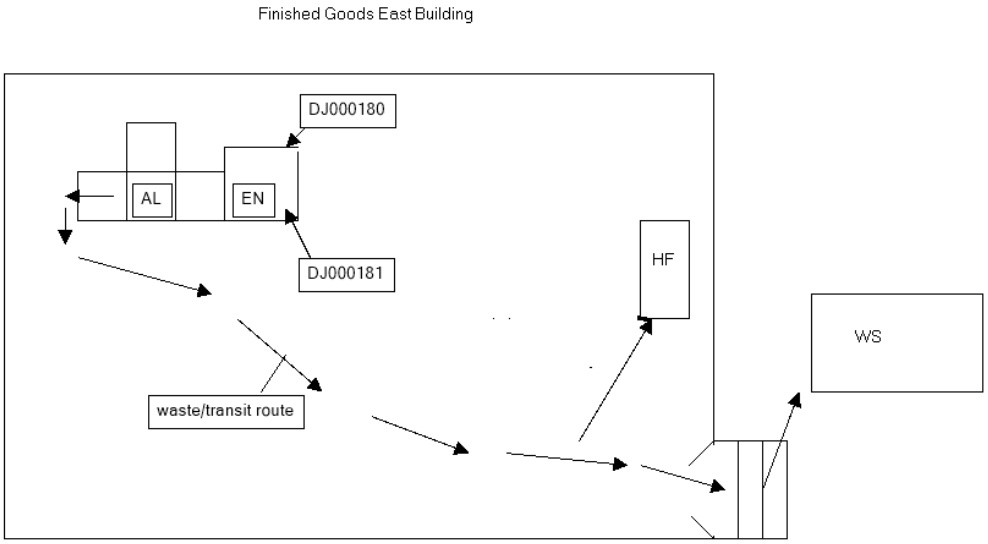
Layout Diagram of Asbestos Removal Site

Site Layout Diagram: Enclosure 18 within Finished Goods East Building

Enclosure Area:	2m²	Enclosure Volume:	16m³



Key:						
	Enclosure	EN	Waste Skip	WS	Negative Pressure Unit	NPU
	Work Area	WA	Airlock	AL	Transit route	TR
	Hygiene Facility	HF	Baglock	BL	Sample Point	SP

Main work area features agreed with and signed by the asbestos removal contractor's representative and ACE technician

Technician's name: Ashley Bond **Contractor's name: T.Peverley**

Signature: **Signature:**

Certificate of Reoccupation

Report No: J179997/DJ01	Issue No: 1	Page 3 of 6

STAGE 1 OF 4 — Preliminary check of site condition and job completeness

1.1	Plan of work checked and entire work area defined/agreed including method of removal when enclosure not used	Yes	1.2	Diagram or photos showing main work area features agreed with and signed by contractor	Yes
1.3	Is any asbestos to remain in work area not in the contract to be removed	No	1.4	Work area only (enclosures not used), clearly defined with physical barriers appropriately placed	N/A
1.5	Enclosure intact and constructed to encompass the defined work area with reasonable working space	Yes	1.6	Airlocks / Baglocks suitably constructed and at least 1m x 1m x 2m (height)	Yes
1.7	Air extraction unit(s) fitted to enclosure and operating	Yes	1.8	Hygiene facility still intact and operating, including air extraction	Yes
1.9	Hygiene facility clean end compartment checked for cleanliness, hot / cold water and heating	Yes	1.10	Hygiene facility shower area and dirty end compartments inspected and found clean and free from stored items	Yes
1.11	Transit and waste route signs appropriately displayed	Yes	1.12	Transit and waste route areas free from obvious signs of contamination / ACM waste / debris	Yes
1.13	Skip area free from obvious signs of contamination / ACM waste / debris	Yes	1.14	Areas immediately adjacent enclosure / work area free from obvious signs of contamination / ACM waste / debris	Yes
1.15	Work area only (inspected from barrier edge) for identification of any remedial action requirements prior to entry	N/A	1.16	Enclosure inspected via viewing panels and/or CCTV for any remedial action requirements prior to entry	Yes
1.17	Any additional checks (details of additional checks to be recorded in comments section)	No			

Result: PASSED	Date: 24 Oct 2018	Time: 09:19	Assessed by: Ashley Bond	Signature: 

Stage 1 Comments:
1.8-HF to stay in situ for further works.
1.12-General dust present due to on going works.
1.13-skip located outside building.

STAGE 2 OF 4 — Visual Inspection

2.1	Is there adequate lighting and essential equipment within the enclosure / work area	Yes	2.2	Is the enclosure internal construction intact	Yes
2.3	Is the enclosure / work area dry	Yes	2.4	Is there plant / equipment within the enclosure / work area	No
2.5	Is there the presence of fine settled dust to any surfaces within the enclosure / work area	No	2.6	Has all the ACM specified in the plan of work been removed / encapsulated	Yes
2.7	Is there ACM remaining within the enclosure / work area not specified for removal in the plan of work	No	2.8	Is there evidence of inaccessible ACM or reason to suspect its presence within the enclosure / work area	No
2.9	Are there surfaces within the enclosure / work area where it is almost impossible to remove all the ACM, sufficient for a visual inspection to pass as normal	No	2.10	Is there loose rubble flooring within the enclosure / work area	No
2.11	Have waste bags, materials, unnecessary equipment been removed from the enclosure / work area	Yes	2.12	Is there evidence or reason to suspect the general use of sprayed sealants	No
2.13	Is air extraction equipment in situ and in operation	Yes	2.14	Has each air extractor been fitted with new pre-filters	Yes
2.15	Visual Inspection start time:	09:59	2.16	Visual Inspection end time:	10:23

THE ENCLOSURE INCLUDING AIRLOCK AND BAGLOCK (WHEN BAGLOCK CONSTRUCTED) OR DESIGNATED WORK AREA HAVE PASSED FOR BEING FREE OF VISIBLE ASBESTOS WASTE, DEBRIS AND SURFACE DUST

Result: PASSED	Date: 24 Oct 2018	Time: 10:23	Assessed by: Ashley Bond	Signature: 

Stage 2 Comments:
The pipe remains present and wrapped in polythene excluding a small section which has been stripped of the lagging to allow the cut point. This area was found to be clean with no visable lagging or residues.

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STAGE 3 OF 4 — **Clearance Air Monitoring**

3.1	Estimated size of enclosure	2 m²	16 m³	3.2	Are all areas within the enclosure / work area dry	Yes
3.3	Is there evidence or reason to suspect the use of sprayed sealant	No		3.4	Is air extraction equipment to the enclosure switched off with pre-filters capped and sealed	Yes
3.5	Number of air samples collected	2		3.6	Method of dust raising activities	Brush
	Number of air measurements required	2			Duration of dust raising activities (minutes)	3 minutes

Sample Number	Analyst	Sampler	Pump No	Cowl No	Test Type	Start Time	Finish Time	Duration (min)	Intermediate Flow Rate (l/min)		
									Start	Mean flow rate	Finish
DJ000180	Ashley Bond	Ashley Bond	07582	05	Clearence	10:25	11:25	60	8.0	N/A	8.0
DJ000181	Ashley Bond	Ashley Bond	07583	06	Clearence	10:27	11:27	60	8.0	N/A	8.0

Sample Number	Location Rrefer to Plan No...	Temp (°C)	Pres (mbar)	☆ Actual flow rate (l/min)	Volume (Litres)	Number of Fields	Number of Fibres	Calculated Result (f/ml)	# Reported Result (f/ml)
DJ000180	low level/gound floor	N/A	1018	8.0	480	200	2	0.001	<0.01
DJ000181	high level/scaffold	14	1018	8.0	480	200	6	0.003	<0.01

Microscope Calibrated: Yes	Band 5 of HSE/NPL test slide visible: Yes	Graticule diameter: 100 µm	**Total Number of samples this page: 2**
Membrane filters used: Nitrocellulose / 1.2 µm pore size / 25 mm Dia / Printed Grid		Batch No: B01309	Exposed Filter 22.5mm²

Result: PASSED	**Date: 24 Oct 2018**	**Time: 12:03**	**Assessed by: Ashley Bond**	**Signature:** 

THE ENCLOSURE / DESIGNATED WORK AREA HAS PASSED AS BEING CLEARED TO BE DISMANTLED

Stage 3 Comments:
Upon analysis clearance air sampling found to be satisfactory and below the limit of quantification (0.01f/ml).

Air Monitoring Validation Statement:

We hereby certify that the Asbestos Fibres in Air Sampling and Analysis has been carried out in accordance with the Asbestos Consultants Europe Ltd Technical Procedure Document TPD6 and the HSE's HSG248.

Any deviations from these methods are shown in the Test Report section below.

The Asbestos Fibres in Air Sampling and Analysis tests meet the criteria set out in the international standard ISO/IEC 17025

NOTE:
(#) UNCERTAINTY OF MEASUREMENT: The lower limit of detection for the method is stated in HSG248 as about 0.01 fibres/ml.

When the sample volume is equal to or greater than 480 litres and 200 graticule fields are examined, a calculated result below the limit of detection may be expressed as <0.01 f/ml.

For sample volumes below 480 litres and graticule field counts below 200, the limit of detection will be higher.

(☆) ACTUAL FLOW RATE: Determined by averaging the calibrated Intermediate flow rates and/or where differences in ambient temperature and/or pressure between the calibration and sampling sites are greater than 5%.

Certificate of Reoccupation

STAGE 4 OF 4 **Final assessment post enclosure/work area dismantling**

4.1	Work area equipment and / or enclosure deconstruction process witnessed by the technician	No	4.2	Is the work area and surrounding areas free of ACM waste / debris	Yes
4.3	Is plant and / or equipment within the area free of ACM waste / debris / remnants	Yes	4.4	Is plant and / or equipment immediately adjacent to the area, free of ACM waste / debris / remnants	Yes
4.5	Is the transit, waste route and skip location free of ACM waste / debris	Yes	4.6	Reassurance air testing carried out during the deconstruction process	No

THE AREA IS SAFE FOR REOCCUPATION

Result: PASSED	**Date: 24 Oct 2018**	**Time: 13:17**	**Assessed by: Ashley Bond**	**Signature:** 

Stage 4 Comments:
Please refer to stage 2 additional comments.

Contractor's representative acknowledgement

I HAVE BEEN ADVISED BY Ashley Bond

THAT THE AREA IS SAFE FOR REOCCUPATION

Contractor representative's name: T.Peverley	**Date: 24 Oct 2018**	**Time: 13:18**	**Signature:** 

Certificate of reoccupation issue details

Copies of this certificate (with appendages where applicable) were issued to the following:

Copy 1 issued to: DSM

Copy 2 issued to: N/A

Other copies issued to: N/A

Appended documents: N/A

Note:	**A copy of the Certificate of reoccupation must always be issued to the asbestos removal contractor.**	**The asbestos removal contractor requires a separate clearance certificate of inspection for the hygiene facility unless the unit is to remain on site for additional works.**

Technician authorising testing documentation: **Ashley Bond** **Signature**  **Issue Date: 24 Oct 2018**

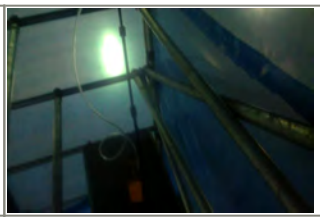
Certificate of Reoccupation

Photos Pages

Stage 1 Photos




Stage 2 Photos

Stage 4 Photos




Air Sample Photos

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UKAS TESTING 0472

Certificate of Reoccupation

Report No: J179997/DJ02		Issue No: 1	Page 1 of 6
Customer's Name & Address		DSM Demolition Limited ,Arden House, Arden Road, Birmingham, B8 1DE ,	
		Contact Name: Keiron Jones	Telephone No: 0121 322 2225 / 07917 085959
Site Address		Former JDE Banbury, Southam Road, Banbury, Oxfordshire, OX16 2QU ,	
Asbestos Removal Contractor's: Name & Address		DSM Demolition Limited,Arden House, Arden Road, Birmingham, B8 1DE	
Site Supervisor Name:	T.Peverley	**Site Supervisor Tel:**	07584028527

Executive Summary

Contractor's representative who is responsible for confirming their inspection of the enclosure and / or work area is complete and satisfactory and who will acknowledge the outcome and findings reported by the ACE technician:
Representative's name: T.Peverley

Location of Work:	Enclosure 27 within Finished Goods East Building
Scope of Work:	A single screw fixed AIB panel behind in generally good condition is raw and will be removed inside a full enclosure. High level redundant heating pipe lagged with asbestos insulation will be removed inside a full enclosure. The insulation is in generally good condition. Amosite and chrysotile fibres have been identified.

The contractor's supervisor is to confirm that their inspection of the enclosure and/or work area is completed and satisfactory with all specified asbestos work completed. Technician is not to proceed without contractor's confirmation of a satisfactory inspection.
Site Supervisor's Signature:

UKAS accredited methods:	We hereby certify that site assessment for reoccupation has been carried out in accordance with the Health and Safety Executive HSG248 and the Asbestos Consultants Europe Ltd Technical procedure document TPD 6. **ACCREDITED BY UKAS FOR THE 4 STAGE CERTIFICATE OF REOCCUPATION**		
ACE Technical Equipment Used:	Microscope No: 00286	Phase contrast telescope No: 00287	Flow meter No: 05756
Tally Counter: 00279/00280	Digital Ther/Barometer - Timer No: /05115/	NPL test slide No: 00391	Stage micrometer No: 00034

Mobile Lab: Mobile Lab

Test Report:	***(Include a summary of test results and any incidents of elevated fibre levels; plus details of any variations from standard procedures; relevant environmental conditions that significantly influenced results and actions required as a result from any incidents etc)*** **Opinions & interpretations expressed herein are outside the scope of UKAS accreditation**

Confirmed start of the assessment:	**Date: 24/10/2018**	**Time: 07:10**

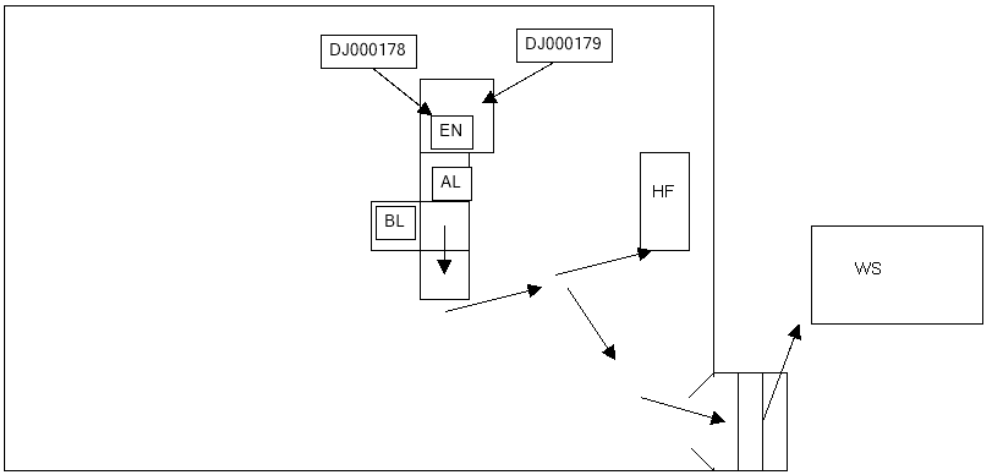
Certificate of Reoccupation

Layout Diagram of Asbestos Removal Site

Site Layout Diagram: Enclosure 27 within Finished Goods East Building

Enclosure Area:	2m²	Enclosure Volume:	16m³

Finished Goods East Building



Key:	Enclosure	EN	Waste Skip	WS	Negative Pressure Unit	NPU
	Work Area	WA	Airlock	AL	Transit route	TR
	Hygiene Facility	HF	Baglock	BL	Sample Point	SP

Main work area features agreed with and signed by the asbestos removal contractor's representative and ACE technician

Technician's name: Ashley Bond **Contractor's name: T.Peverley**

Signature: **Signature:**

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STAGE 1 OF 4 — Preliminary check of site condition and job completeness

1.1	Plan of work checked and entire work area defined/agreed including method of removal when enclosure not used	Yes	1.2	Diagram or photos showing main work area features agreed with and signed by contractor	Yes
1.3	Is any asbestos to remain in work area not in the contract to be removed	No	1.4	Work area only (enclosures not used), clearly defined with physical barriers appropriately placed	N/A
1.5	Enclosure intact and constructed to encompass the defined work area with reasonable working space	Yes	1.6	Airlocks / Baglocks suitably constructed and at least 1m x 1m x 2m (height)	Yes
1.7	Air extraction unit(s) fitted to enclosure and operating	Yes	1.8	Hygiene facility still intact and operating, including air extraction	Yes
1.9	Hygiene facility clean end compartment checked for cleanliness, hot / cold water and heating	Yes	1.10	Hygiene facility shower area and dirty end compartments inspected and found clean and free from stored items	Yes
1.11	Transit and waste route signs appropriately displayed	Yes	1.12	Transit and waste route areas free from obvious signs of contamination / ACM waste / debris	Yes
1.13	Skip area free from obvious signs of contamination / ACM waste / debris	Yes	1.14	Areas immediately adjacent enclosure / work area free from obvious signs of contamination / ACM waste / debris	Yes
1.15	Work area only (inspected from barrier edge) for identification of any remedial action requirements prior to entry	N/A	1.16	Enclosure inspected via viewing panels and/or CCTV for any remedial action requirements prior to entry	Yes
1.17	Any additional checks (details of additional checks to be recorded in comments section)	No			

Result: PASSED	Date: 24 Oct 2018	Time: 09:18	Assessed by: Ashley Bond	Signature: 

Stage 1 Comments:
1.8-HF to stay in situ for further works.
1.12-General dust present due to on going works.
1.13-skip located outside building.

STAGE 2 OF 4 — Visual Inspection

2.1	Is there adequate lighting and essential equipment within the enclosure / work area	Yes	2.2	Is the enclosure internal construction intact	Yes
2.3	Is the enclosure / work area dry	Yes	2.4	Is there plant / equipment within the enclosure / work area	No
2.5	Is there the presence of fine settled dust to any surfaces within the enclosure / work area	No	2.6	Has all the ACM specified in the plan of work been removed / encapsulated	Yes
2.7	Is there ACM remaining within the enclosure / work area not specified for removal in the plan of work	No	2.8	Is there evidence of inaccessible ACM or reason to suspect its presence within the enclosure / work area	No
2.9	Are there surfaces within the enclosure / work area where it is almost impossible to remove all the ACM, sufficient for a visual inspection to pass as normal	No	2.10	Is there loose rubble flooring within the enclosure / work area	No
2.11	Have waste bags, materials, unnecessary equipment been removed from the enclosure / work area	Yes	2.12	Is there evidence or reason to suspect the general use of sprayed sealants	No
2.13	Is air extraction equipment in situ and in operation	No	2.14	Has each air extractor been fitted with new pre-filters	Yes
2.15	Visual Inspection start time:	09:25	2.16	Visual Inspection end time:	09:47

THE ENCLOSURE INCLUDING AIRLOCK AND BAGLOCK (WHEN BAGLOCK CONSTRUCTED) OR DESIGNATED WORK AREA HAVE PASSED FOR BEING FREE OF VISIBLE ASBESTOS WASTE, DEBRIS AND SURFACE DUST

Result: PASSED	Date: 24 Oct 2018	Time: 09:47	Assessed by: Ashley Bond	Signature: 

Stage 2 Comments:
The pipe remains present and wrapped in polythene excluding a small section which has been stripped of the lagging to allow the cut point. This area was found to be clean with no visable lagging or residues.

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STAGE 3 OF 4 — **Clearance Air Monitoring**

3.1	Estimated size of enclosure	2 m²	16 m³	3.2	Are all areas within the enclosure / work area dry	Yes
3.3	Is there evidence or reason to suspect the use of sprayed sealant	No		3.4	Is air extraction equipment to the enclosure switched off with pre-filters capped and sealed	Yes
3.5	Number of air samples collected	2		3.6	Method of dust raising activities	Brush
	Number of air measurements required	2			Duration of dust raising activities (minutes)	3 minutes

Sample Number	Analyst	Sampler	Pump No	Cowl No	Test Type	Start Time	Finish Time	Duration (min)	Intermediate Flow Rate (l/min)		
									Start	Mean flow rate	Finish
DJ000178	Ashley Bond	Ashley Bond	07580	03	Clearence	09:50	10:50	60	8.0	N/A	8.0
DJ000179	Ashley Bond	Ashley Bond	07581	04	Clearence	09:52	10:52	60	8.0	N/A	8.0

Sample Number	Location Rrefer to Plan No...	Temp (°C)	Pres (mbar)	☆ Actual flow rate (l/min)	Volume (Litres)	Number of Fields	Number of Fibres	Calculated Result (f/ml)	# Reported Result (f/ml)
DJ000178	low level/ground floor	N/A	1018	8.0	480	200	1.5	0.001	<0.01
DJ000179	high level/scaffold	N/A	1018	8.0	480	200	9	0.005	<0.01

Microscope Calibrated: Yes	Band 5 of HSE/NPL test slide visible: Yes	Graticule diameter: 100 µm	**Total Number of samples this page: 2**
Membrane filters used: Nitrocellulose / 1.2 µm pore size / 25 mm Dia / Printed Grid		Batch No: B01309	Exposed Filter 22.5mm²

Result: PASSED	**Date: 24 Oct 2018**	**Time: 11:19**	**Assessed by: Ashley Bond**	**Signature:** 

THE ENCLOSURE / DESIGNATED WORK AREA HAS PASSED AS BEING CLEARED TO BE DISMANTLED

Stage 3 Comments:
Upon analysis clearance air sampling found to be satisfactory and below the limit of quantification (0.01f/ml).

Air Monitoring Validation Statement:

We hereby certify that the Asbestos Fibres in Air Sampling and Analysis has been carried out in accordance with the Asbestos Consultants Europe Ltd Technical Procedure Document TPD6 and the HSE's HSG248.

Any deviations from these methods are shown in the Test Report section below.

The Asbestos Fibres in Air Sampling and Analysis tests meet the criteria set out in the international standard ISO/IEC 17025

NOTE:
(#) UNCERTAINTY OF MEASUREMENT: The lower limit of detection for the method is stated in HSG248 as about 0.01 fibres/ml.

When the sample volume is equal to or greater than 480 litres and 200 graticule fields are examined, a calculated result below the limit of detection may be expressed as <0.01 f/ml.

For sample volumes below 480 litres and graticule field counts below 200, the limit of detection will be higher.

(☆) ACTUAL FLOW RATE: Determined by averaging the calibrated Intermediate flow rates and/or where differences in ambient temperature and/or pressure between the calibration and sampling sites are greater than 5%.

Certificate of Reoccupation

STAGE 4 OF 4 **Final assessment post enclosure/work area dismantling**

4.1	Work area equipment and / or enclosure deconstruction process witnessed by the technician	No	4.2	Is the work area and surrounding areas free of ACM waste / debris	Yes
4.3	Is plant and / or equipment within the area free of ACM waste / debris / remnants	Yes	4.4	Is plant and / or equipment immediately adjacent to the area, free of ACM waste / debris / remnants	Yes
4.5	Is the transit, waste route and skip location free of ACM waste / debris	Yes	4.6	Reassurance air testing carried out during the deconstruction process	No

THE AREA IS SAFE FOR REOCCUPATION

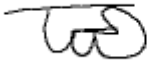
Result: PASSED	**Date: 24 Oct 2018**	**Time: 11:52**	**Assessed by: Ashley Bond**	**Signature:** 

Stage 4 Comments:
Please refer to stage 2 additional comments

Contractor's representative acknowledgement

I HAVE BEEN ADVISED BY Ashley Bond

THAT THE AREA IS SAFE FOR REOCCUPATION

Contractor representative's name: T.Peverley	**Date: 24 Oct 2018**	**Time: 11:52**	**Signature:** 

Certificate of reoccupation issue details

Copies of this certificate (with appendages where applicable) were issued to the following:

Copy 1 issued to: DSM

Copy 2 issued to: N/A

Other copies issued to: N/A

Appended documents: N/A

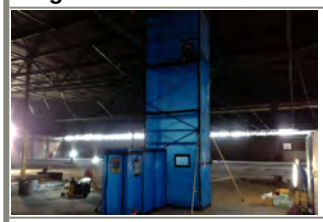
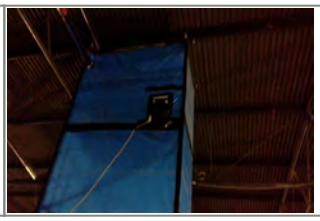
Note:	**A copy of the Certificate of reoccupation must always be issued to the asbestos removal contractor.**	**The asbestos removal contractor requires a separate clearance certificate of inspection for the hygiene facility unless the unit is to remain on site for additional works.**

Technician authorising testing documentation: **Ashley Bond** **Signature**  **Issue Date: 24 Oct 2018**

Certificate of Reoccupation

Photos Pages

Stage 1 Photos

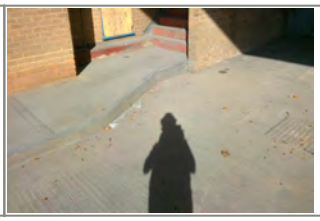



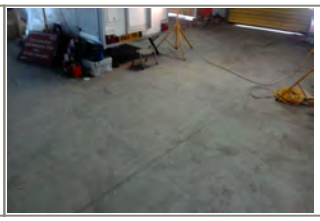
Stage 2 Photos



No photographic evidence taken.

Stage 4 Photos



Air Sample Photos

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Head office: Magnet Road, Grays, Essex, RM20 4DP

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Certificate of Reoccupation

03796

Report No: J180353	Issue No: 01	Page 01 of 06

UKAS accredited methods	We hereby certify that site assessment for reoccupation has been carried out in accordance with the Health and Safety Executive HSG248 and the Asbestos Consultants Europe Ltd Technical procedure document TPD 6.

ACCREDITED BY UKAS FOR STAGES 1, 2, 3 & 4 OF THE 4 STAGE CERTIFICATE OF REOCCUPATION

Customer's name & address	DSM DEMOLITION LIMITED, ARDEN HOUSE, ARDEN ROAD, BIRMINGHAM, B8 1DE	
	Contact name: T. PENDLEY	Telephone No: 07584 028527
Site address	FORMER JDE BANBURY, SOUTHAM ROAD, BANBURY, OXFORDSHIRE, OX16 2DH	
Contractor's name & address	SAME AS CUSTOMER	
	Site supervisor's name: SEE ABOVE	Telephone No: SEE ABOVE

Contractor's representative who is responsible for confirming their inspection of the enclosure and / or work area is complete and satisfactory and who will acknowledge the outcome and findings reported by the ace technician

Representative's name: T. PENDLEY

Areas to be assessed where work with asbestos has taken place	ENCLOSURE 1 WITHIN FINISHED GOODS WEST BUILDING
Brief description of work undertaken	REMOVAL OF SINGLE SKIN FIXED PANEL UNDER FULLY CONTROLLED CONDITIONS.
	Date(s) work carried out by contractor: 29/10/18

The contractor's confirmed that their inspection of the enclosure and/or work area is completed and satisfactory with all specified asbestos work completed	(Yes)	No	Technician is not to proceed without contractors confirmation of a satisfactory inspection

Anticipated start of the assessment:	Date: 30/10/18	Time: 7.00AM
Confirmed start of the assessment:	Date: 30/10/18	Time: 7.05AM

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Report No: J180353 | Issue No: 01 | Page 02 of 06

STAGE 1 OF 4		Preliminary check of site condition and job completeness			
1.1	Plan of work checked and entire work area defined/agreed including method of removal when enclosure not used	(Yes)	~~No~~		COMMENTS:
1.2	Diagram or photos showing main work area features agreed with and signed by contractor	(Yes)	~~No~~		
1.3	Is any asbestos to remain in work area not in the contract to be removed	~~Yes~~	(No)		
1.4	Work area only (enclosures not used), clearly defined with physical barriers appropriately placed	~~Yes~~	~~No~~	(N/A)	
1.5	Enclosure intact and constructed to encompass the defined work area with reasonable working space	(Yes)	~~No~~	~~N/A~~	
1.6	Airlocks / Baglocks suitably constructed and at least 1m x 1m x 2m (height)	(Yes)	~~No~~	~~N/A~~	
1.7	Air extraction unit(s) fitted to enclosure and operating	(Yes)	~~No~~	~~N/A~~	
1.8	Hygiene facility still intact and operating, including air extraction	(Yes)	~~No~~		
1.9	Hygiene facility clean end compartment checked for cleanliness, hot / cold water and heating	(Yes)	~~No~~		REFER TO J180353/01
1.10	Hygiene facility shower area and dirty end compartments inspected and found clean and free from stored items	(Yes)	~~No~~		AS ABOVE
1.11	Transit and waste route signs appropriately displayed	(Yes)	~~No~~		
1.12	Transit and waste route areas free from obvious signs of contamination / ACM waste / debris	(Yes)	~~No~~		
1.13	Skip area free from obvious signs of contamination / ACM waste / debris	(Yes)	~~No~~	~~N/A~~	
1.14	Areas immediately adjacent enclosure / work area free from obvious signs of contamination / ACM waste / debris	(Yes)	~~No~~	—	
1.15	Work area only (inspected from barrier edge) for identification of any remedial action requirements prior to entry	~~Yes~~	~~No~~	(N/A)	
1.16	Enclosure inspected via viewing panels and/or CCTV for any remedial action requirements prior to entry	(Yes)	~~No~~	~~N/A~~	
1.17	Any additional checks (details of additional checks to be recorded in comments section)	~~Yes~~	(No)		

STAGE 1 RESULT: (Passed) ~~Failed~~ | Date: 30/10/18 | Time: 07:28

Assessment carried out by: A BOND | Signature: [signature]

ADDITIONAL COMMENTS: N/A

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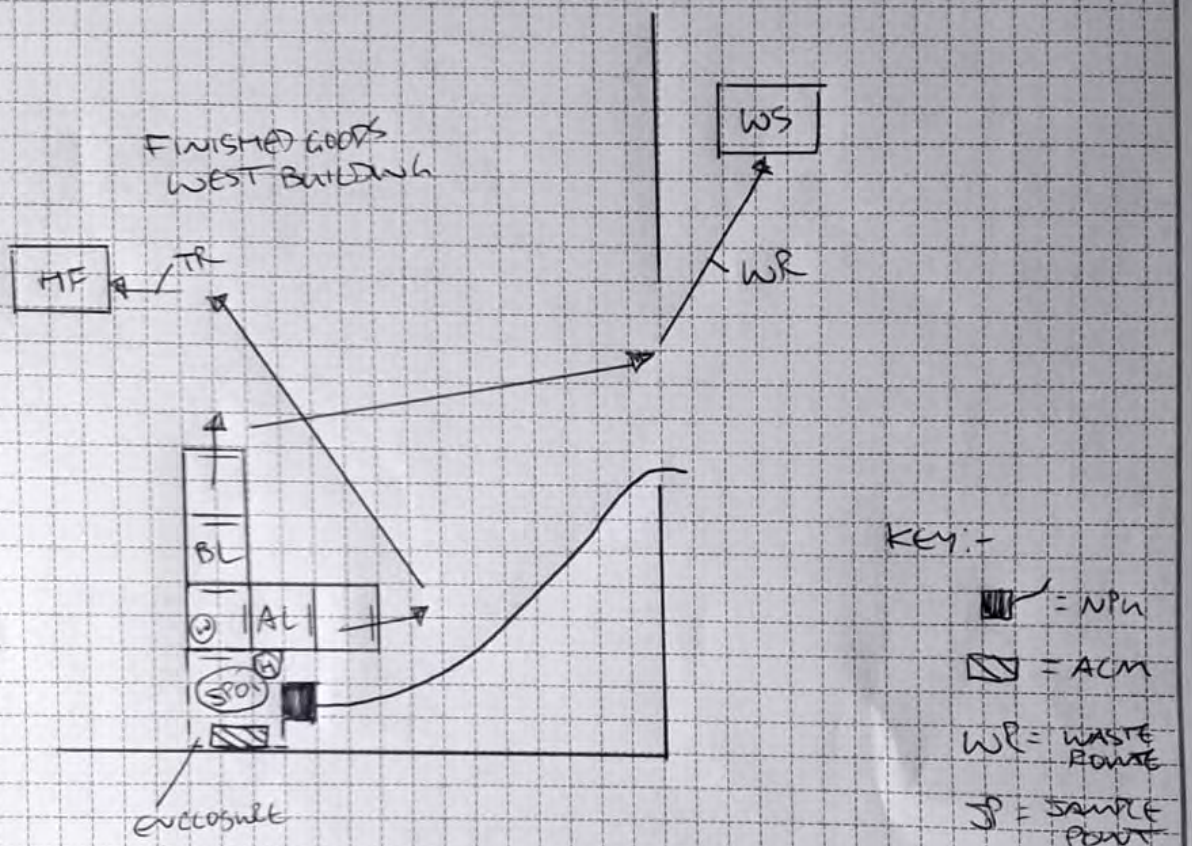
Layout diagram of asbestos removal site

Site location: FORMER JDE BANBURY



ENCLOSURE DIMENSIONS

W 15(m) × H 2(m) × L 2(m) = VOL 6 (m³)

Main work area features agreed with and signed by the asbestos removal contractor's representative and ace technician

Technician's name: A. BOND

Signature:

Contractor's name: T. PEVERLEY

Signature:

KEY:						
	Enclosure	EN	Waste skip	WS	Negative pressure unit	NPU
	Work area	WA	Airlock	AL	Transit route	TR
	Hygiene facility	HF	Baglock	BL	Sample point	SP

QC/124:1 Issue date: 28.02.14

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Report No: J180353	Issue No: 01	Page 04 of 06

STAGE 2 OF 4		Visual inspection			
2.1	Is there adequate lighting and essential equipment within the enclosure / work area	(Yes)	~~No~~		COMMENTS:
2.2	Is the enclosure internal construction intact	(Yes)	~~No~~	~~N/A~~	
2.3	Is the enclosure / work area dry	(Yes)	~~No~~		
2.4	Is there plant / equipment within the enclosure / work area	~~Yes~~	(No)		
2.5	Is there the presence of fine settled dust to any surfaces within the enclosure / work area	~~Yes~~	(No)		
2.6	Has all the ACM specified in the plan of work been removed / encapsulated	(Yes)	~~No~~		
2.7	Is there ACM remaining within the enclosure / work area not specified for removal in the plan of work	~~Yes~~	(No)		
2.8	Is there evidence of inaccessible ACM or reason to suspect its presence within the enclosure / work area	~~Yes~~	(No)		
2.9	Are there surfaces within the enclosure / work area where it is almost impossible to remove all the ACM, sufficient for a visual inspection to pass as normal	~~Yes~~	(No)		
2.10	Is there loose rubble flooring within the enclosure / work area	~~Yes~~	(No)		
2.11	Have waste bags, materials, unnecessary equipment been removed from the enclosure / work area	(Yes)	~~No~~		
2.12	Is there evidence or reason to suspect the general use of sprayed sealants	~~Yes~~	(No)		
2.13	Is air extraction equipment in situ and in operation	(Yes)	~~No~~	~~N/A~~	
2.14	Has each air extractor been fitted with new pre-filters	(Yes)	~~No~~	~~N/A~~	
2.15	Stage 2 visual inspection duration: 21 mins				

STAGE 2 RESULT: (Passed) ~~Failed~~ Date: 30/10/18 Time: 08.00

THE ENCLOSURE INCLUDING AIRLOCK AND BAGLOCK (WHEN BAGLOCK CONSTRUCTED) OR DESIGNATED WORK AREA IS (FREE) / ~~NOT FREE~~ OF VISIBLE ASBESTOS WASTE, DEBRIS AND SURFACE DUST

Assessment carried out by: A. BOND Signature: A.B

ADDITIONAL COMMENTS: N/A

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Report No: J180353	Issue No: 01	Page 05 of 06

STAGE 3 OF 4		Clearance air monitoring						
3.1	Estimated size of enclosure	6 ~~m²~~ (m³)		3.2	Are all areas within the enclosure / work area dry	(Yes)	~~No~~	
3.3	Is there evidence or reason to suspect the use of sprayed sealant	~~Yes~~	(No)	3.4	Is air extraction equipment to the enclosure switched off with pre-filters capped and sealed	(Yes)	~~No~~	~~N/A~~
3.5	Number of air samples collected	1		3.6	Method of dust raising activities	BRUSH		
	Number of air measurements required	1			Duration of dust raising activities	1 1/2 mins		

Technical data & Clearance indicator air sampling details

Lab Location: ~~Permanent~~ / ~~Site~~ / (Mobile) If Mobile Lab - Reg No: AE66 UTB		Field Blank (FB) nominated:	(Yes) ~~No~~
Microscope serial number	286	Phase contrast telescope number	287
Digital Thermometer / Barometer / Timepiece	5115	Working flow meter serial number	5756
Stage micrometer serial number	34	NPL test slide serial number	391
Limit of quantification for following measurements = 0.01 f/ml		COUNTERS: - 279 + 280	
Analyst's name: A. BOND		Sampler's name: A. BOND	

Sample Number	Analyst Initial	Sampler Initial	Pump Number	Cowl Number	Start Time	Finish Time	Duration (min)	Intermediate Flow Rate (l/min) Start	60min	120min	180min	Finish
01	AB	AB	07580	01	08:01	09:01	60	8.0	/	/	/	8.0
02	—	AB	—	FIELD BLANK				—				
				END								

Sample Number	Location Refer to plan Page No. 03	Temp (°C)	Press (mbar)	★ Actual flow rate (l/min)	Volume (Litres)		Number of Fields	Number of Fibres		Calculated Result (f/ml)	# Reported Result (f/ml)
01	SP01	8	1011	8.0	480	/	200	2½	/	0.002	< 0.01
02	—		FIELD	BLANK			NOT	READ		—	
				END							

Microscope calibrated	(YES) ~~NO~~	NPL band resolution: 5	Graticule diameter: 100 µm
Membrane filters used: Nitrocellulose / 0.8 µm pore size / 25 mm Dia / Printed Grid		Batch No. 1304	Exposed filter: 397.61 mm²

We hereby certify that the Asbestos Fibres in Air Sampling and Analysis has been carried out in accordance with the Asbestos Consultants Europe Ltd Technical Procedure Document TPD 6 and the HSE's HSG248. **The above tests meet the criteria set out in the international standard ISO / IEC 17025**

NOTE:

(#) **UNCERTAINTY OF MEASUREMENT:** The lower limit of quantification for the above method is stated in HSG248 as about 0.01 fibres/ml. When the sample volume is equal to or greater than 480 litres and 200 graticule fields are examined, a calculated result below the limit of detection may be expressed as <0.01 f/ml. For sample volumes below 480 litres and graticule field counts below 200, the lower limit of accurate measurement will be higher.

(★) **ACTUAL FLOW RATE:** Determined by averaging the calibrated Intermediate flow rates and/or where differences in ambient temperature and/or pressure between the calibration and sampling sites are greater than 5%.

STAGE 3 RESULT	(Passed)	~~Failed~~	Date: 30/10/18	Time: 09:18
THE ENCLOSURE / DESIGNATED WORK AREA	(CAN BE)	/ ~~CANNOT BE~~ DISMANTLED		
Assessment carried out by: A. BOND		Signature:		

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STAGE 4 OF 4		*Final assessment post enclosure / work area dismantling*			
4.1	Work area equipment and / or enclosure deconstruction process witnessed by the technician	~~Yes~~	(No)	COMMENTS:	
4.2	Is the work area and surrounding areas free of ACM waste / debris	(Yes)	~~No~~		
4.3	Is plant and / or equipment within the area free of ACM waste / debris / remnants	(Yes)	~~No~~		
4.4	Is plant and / or equipment immediately adjacent to the area, free of ACM waste / debris / remnants	(Yes)	~~No~~		
4.5	Is the transit, waste route and skip location free of ACM waste / debris	(Yes)	~~No~~		
4.6	Reassurance air testing carried out during the deconstruction process	~~Yes~~	(No)		
STAGE 4 RESULT		(Passed)	~~Failed~~	Date: 30/10/18	Time: 09.40

THE AREA (CAN BE) / ~~CANNOT BE~~ REOCCUPIED

Assessment carried out by: A. BOND Signature: [signature]

Contractor's representative acknowledgement

~~I have been advised by~~

~~that a failed Certificate of reoccupation will be issued because the area has failed stage:~~ ~~1~~ ~~2~~ ~~3~~ ~~4~~

I have been advised by A. BOND

that the Certificate of reoccupation can be issued as the area has passed all 4 stages

(Complete one of the above and strike through the other option)

Contractor representative's Name: T. PENBLEY Date: 30/10/18

Signature: [signature] Time: 09.41

Certificate of reoccupation issue details

Copies of this certificate (with appendages where applicable) were issued to the following:

Copy 1 issued to: DSM DEMOLITION

Copy 2 issued to: N/A

Other copies issued to: N/A

Appended documents: N/A

Technician's Name: A. BOND Date: 30/10/18

Signature: [signature] Time: 09.41

Note: A copy of the Certificate of reoccupation must always be issued to the asbestos removal contractor.

The asbestos removal contractor requires a separate clearance certificate of inspection for the hygiene facility unless the unit is to remain on site for additional works.

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Asbestos Consultants Europe Ltd

Head office: Magnet Road, Grays, Essex, RM20 4DP

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Hygiene Facility Certificate of Inspection

02070

Report No: J 1803531 01	Issue No: 01	Page 01 of 03

UKAS accredited method	We hereby certify that the hygiene facility Certificate of inspection has been carried out in accordance with HSG248 and the Asbestos Consultants Europe Ltd Technical procedure document TPD 6.
Customer's name & address	DSM DEMOLITION LIMITED, ARDEN HOUSE, ARDEN ROAD, BIRMINGHAM, B8 1DE
Contact name: T. PENKLEY	Telephone No: 07584 028527
Site address	FORMER JDE BANBURY, JONATHAN ROAD, BANBURY, OXFORDSHIRE, OX16 2QH
Contractor's name & address	SAME AS CUSTOMER
Site supervisor's name: SEE ABOVE	Telephone No: SEE ABOVE

Contractor's representative who is responsible for confirming their inspection of the hygiene facility is complete and satisfactory and who will acknowledge the outcome and findings reported by the ace technician

Representative's name: T. PENKLEY

Unique reference of hygiene facility (i.e. contractors unit No, Manufacturers ID, serial No.) DCU2

The contractor's confirmed that their inspection of the hygiene facility is completed and satisfactory with all potentially asbestos contaminated materials removed (Yes) / No — **Technician is not to proceed without contractors confirmation of a satisfactory inspection**

Anticipated start of the assessment:	**Date:** 30/10/18	**Time:** 11.00AM
Confirmed start of the assessment:	**Date:** 30/10/18	**Time:** 09.45AM

Thorough visual inspection

1	Hygiene facilities are free from contaminated clothing, used/discarded RPE filters, waste bags etc	(Yes)	No	COMMENTS:
2	Interior surfaces are dry and free from visible asbestos debris and fine settled dust	(Yes)	No	
		(Passed)	Failed	**Date:** 30/10/18 **Time:** 09.50AM

THE HYGIENE FACILITY IS (FREE) / NOT FREE OF VISIBLE ASBESTOS WASTE, DEBRIS AND SURFACE DUST

COMMENTS: N/A

Assessment carried out by: A BOND **Signature:**

Asbestos Consultants Europe Ltd. Registered in England No. 6464301 Registered office: Europa Park, London Road, Grays, Essex, RM20 4DB
Head Office Tel: 01375 366777 web: www.aceconsultants.co.uk

ace

Hygiene Facility Certificate of Inspection

02070

Report No: J180 353 /01	Issue No: 01	Page 02 of 03

Clearance air monitoring inside the hygiene facility-

1	Is air extraction equipment to the facility switched off with their pre-filters capped and sealed	(Yes) / ~~No~~		2	Floor area of shower and dirty end of the hygiene facility	4 m²
3	Number of air samples collected	1		4	Method of dust raising activities	BRUSH
	Number of air measurements required	1			Duration of dust raising activities	1 1/2 mins

Technical data & Clearance indicator air sampling details

Lab Location: Permanent / Site / (Mobile) If Mobile Lab - Reg No AE66 WFB Field Blank (FB) nominated: (Yes) / No

Microscope serial number	286	Phase contrast telescope number	287
Digital Thermometer / Barometer / Timepiece	SIIS	Working flow meter serial number	5756
Stage micrometer serial number	34	NPL test slide serial number	391
Limit of quantification for following measurements =	0.01 f/ml	COUNTED:- 279 + 280	

Analyst's name: A. BOND Sampler's name: A. BOND

Sample Number	Analyst Initial	Sampler Initial	Pump Number	Cowl Number	Start Time	Finish Time	Duration (min)	Intermediate Flow Rate (l/min) Start	60min	120min	180min	Finish
01	AB	AB	67581	02	09.56	10.56	60	8.0	✓	✓	✓	8.0
02	—	AB	—	—	FIELD	BLANK	—	—	—	—	—	—
					END							

Sample Number	Location Refer to plan Page No 3	Temp (°C)	Press (mbar)	★ Actual flow rate (l/min)	Volume (Litres)	Number of Fields	Number of Fibres	Calculated Result (f/ml)	# Reported Result (f/ml)
01	SP01	8	1011	8.0	480 ✓	200	3½ ✓	0.002	<0.01
02	—	FIELD BLANK NOT READ							
		END							

Microscope calibrated (YES) / ~~NO~~ NPL band resolution: 5 Graticule diameter: 100 µm

Membrane filters used: Nitrocellulose / 0.8 µm pore size / 25 mm Dia / Printed Grid Batch No. 1307 Exposed filter: 397.61 mm²

We hereby certify that the Asbestos Fibres in Air Sampling and Analysis has been carried out in accordance with the Asbestos Consultants Europe Ltd Technical Procedure Document TPD 6 and the HSE's HSG248. **The above tests meet the criteria set out in the international standard ISO / IEC 17025**

NOTE:

(#) UNCERTAINTY OF MEASUREMENT: The lower limit of quantification for the above method is stated in HSG248 as about 0.01 fibres/ml. When the sample volume is equal to or greater than 480 litres and 200 graticule fields are examined, a calculated result below the limit of detection may be expressed as <0.01 f/ml. For sample volumes below 480 litres and graticule field counts below 200, the lower limit of accurate measurement will be higher.

(★) ACTUAL FLOW RATE: Determined by averaging the calibrated intermediate flow rates and/or where differences in ambient temperature and/or pressure between the calibration and sampling sites are greater than 5%.

Clearance air monitoring result (Passed) / ~~Failed~~ Date: 30/10/18 Time: 11.15

THE HYGIENE FACILITY IS (CLEARED) / NOT CLEARED FOR RE-USE

Assessment carried out by: A. BOND Signature:

Asbestos Consultants Europe Ltd. Registered in England No. 6464301 Registered office: Europa Park, London Road, Grays, Essex, RM20 4DB
Head Office Tel: 01375 366777 web: www.aceconsultants.co.uk

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Hygiene Facility Certificate of Inspection

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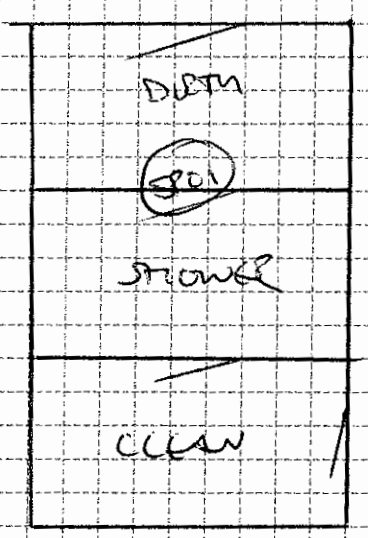
Layout diagram of hygiene facility

Hygiene facility unit / identification number: DCU 2



Contractor's representative acknowledgement

I have been advised by A. BOND that a hygiene facility certificate of inspection (CAN) / ~~CANNOT~~ BE ISSUED

Contractor representative's Name: T. PENGELLY **Date:** 30/10/18

Signature: **Time:** 11.20

Hygiene facility Certificate of inspection issue details

Copy 1 of this certificate was issued to:

Copy 2 of this certificate was issued to:

Technician's Name: A. BOND **Date:** 30/10/18

Signature: **Time:** 11.20

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Head Office Tel: 01375 366777 web: www.aceconsultants.co.uk

Environmental and Impacts and Benefits

www.dsmgroup.info
decommission / demolish / decontaminate

Contract Name	JDE Building, Banbury, OX16 2NN				
Contract Number	C11281				
Phase Number	Not Applicable	Date of Issue	04 Feb 2019	Version Number	1
Reason For Issue	Final				

Facility Code	Facility Type	Recyling Rate (%)	Material	EWC Material	Carrier Code	No. of Loads	Total Amount (tonnes)	Mean Load (tonnes)	Site to Facility (km)	CO^2 (Tonnes)
158	End User	100	Concrete & Brick	17 01 07	2	26	468	18.0	14	2.009
123	Transfer Station	85	Soft Strip	17 09 04	2	2	8	4.0	68	0.172
86	Landfill	0	Soft Strip	17 09 04	2	6	21	3.5	42	0.282
"	Landfill	0	Asbestos Insul.	17 06 01	2	2	9	4.5	42	0.121
83	Transfer Station	85	Soft Strip	17 09 04	2	1	5	5.0	63	0.099
44	Transfer Station	100	Iron & Steel	17 04 05	23	28	170	6.1	93	5.016
Total in site to facility column is total one way distance					Total	65	681	10.5	3491	7.70
Total of DSM plant moves (assumed to and from Arden Road)						6	210	35	538	5.97

Operations with Associated Energy, Emissions and Environmental Impacts	CO^2 (Tonnes)
Estimated emissions from site staff and visitors transport - not determined on this contract	
Emissions from the measured fuel, 8443 litres, used on site	25.75
Estimated emission savings from using crushed secondary aggregates on site - not applicable	
Estimated emission savings from using crushed secondary aggregates off site - not applicable	
Estimated emission savings from replacing iron ore with 170 tonnes of scrap steel	328.1
Emissions from the measured 233 kg of propane gas used on site	0.7
Water usage on site, cubic metres, for dust control etc - not determined on this contract	

Factors Used From The Environment Agency Carbon Calculator

Site Plant Operation	1 litre gas oil = 0.83kg 3.674 tonnes CO2 / tonne gas oil
Transport	tonnes CO2 per tonne kilometre = 0.0003174
Propane Use	0.003 Tonne CO^2 per kg propane
Steel Production	0.97 tonne CO^2 per tonne scrap 2.9 tonne CO2 per tonne ore

PALOMA 1 (INDUSTRIAL 1) UNIT TRUST LTD

REFURBISHMENT OF AN EXISTING WAREHOUSE WITH NEW CAR PARK AND RENOVATED SERVICE YARD AT BANBURY 200, SOUTHAM ROAD, BANBURY, OX16 2QU

PRE-CONSTRUCTION PHASE CDM INFORMATION RECORD AND CLIENT REQUIREMENTS

Successful Partners
DELIVERING QUALITY

CONTENTS

APPENDICES

PREFACE

This Pre-Construction Information has been produced in accordance with the Construction (Design and Management) Regulations 2015 (CDM 2015).

1. The purpose of the Pre-Construction Information is to act as a reference document for health and safety issues identified at the design and planning stage. The plan may include information made available by the Client and Designer(s) and that which can be reasonably obtained by the Principal Designer. The document is compiled on behalf of the Client and (in this instance) issued to the Principal Contractor for the work in order that due regard and allowance can be made for health and safety matters as the work is being developed.

2. Following the Client's appointment of the Principal Contractor, a Construction Phase Plan shall be prepared by the Principal Contractor to include details of their Health and Safety Policy, Management Systems, Risk Assessments, Method Statements, and Welfare Arrangements, etc., including due consideration of foreseeable risks created by other contractors/sub-contractors.

3. This Pre-Construction Information has been prepared in relation to the refurbishment of an existing warehouse facility with integral offices to maximise future use. External works included a new car park and renovated service yard along with drainage reinforcements at Banbury 200, Southam Road, Banbury, OX16 2QU.

4. The Principal Contractor shall be required to provide sufficient information in their Health and Safety Plan to enable the Client to make a reasoned judgement as to whether the Plan is adequate for works to commence. This must be done before the Client allows the project to commence on site. Adequate resources and sufficient time should be allocated by the Principal Contractor to ensure that due regard for health and safety has been planned for.

   Foreseeable, significant hazards and risks that have been identified at the pre-construction stage must be addressed by the Principal Contractor and, where appropriate, the Principal Contractor will have to produce risk assessments and safe systems of work (method statements) ensuring precautions or preventative measures are undertaken on site.

   Where the Principal Contractor appoints sub-contractors, he must be satisfied as to the level of their competence and the provisions they will make to the allocation of adequate time and resources to provide for health and safety.

   In accordance with CDM 2015, the appointed Principal Contractor must develop the Construction Phase Plan during the construction phase. A copy of the outline plan should be forwarded to RPS at least 14 days prior to the construction phase commencing. The Principal Designer will review the plan and once suitably developed will advise the Client accordingly. Only at this stage will the Client advise the Principal Contractor that works may commence on site.

   It is stressed that this Pre-Construction Information Pack is based on information received from the Client and/or his Designers, together with that which is reasonably foreseeable by the Principal Designer, at the time of its preparation. The Principal Contractor has a legal obligation under CDM 2015 to develop the Construction Phase Plan during the construction phase.

1.0 OVERVIEW

1.1 Pre-Construction Information

This Pre-Construction Information document has been prepared in accordance with the Requirements of the Construction (Design and Management) Regulations 2015.

This document shall be used in connection with the design and construction of the project works and is intended to assist in the development of the Construction Phase Plan before work commences.

Appendix A: L153 Managing Health and Safety in Construction

1.2 Statutory Notifications

Notification of the project to the Health and Safety Executive in accordance with the Construction (Design and Management) Regulations 2015 will be made once the Principal Contractor is appointed for the works.

Appendix B: HSE F10 Notification

The Principal Contractor must ensure that other notifications (Statutory/Non-Statutory) are submitted in accordance with the legislative time scales/format required.

1.3 Construction Phase Plan

The Principal Contractor's Construction Phase Plan shall be presented to the client's team no later than 2 weeks before commencement of works on site.

Appendix C: Suggested Contents of the Construction Phase Plan

There will be a planned pre-start meeting prior to the commencement of works on site with an agreed mobilisation period beforehand. This will give the project team an opportunity to receive the Construction Phase Plan and comment and discuss any issues raised with the appointed Principal Contractor.

1.4 Supervision Requirements

A clearly defined organisational chart will be detailed in the Construction Phase Plan, setting out the chain of command/delegated powers. This shall include all names, telephone numbers and email addresses where available. A site contact number must be provided at all times even if this is a mobile number until the site setup is established.

1.5 Training Requirements

CDM 2015 requires that persons carrying out construction work carry the appropriate skills, training, knowledge and experience to undertake the task in question. Where such training cannot be demonstrated then the person undertaking the work shall be adequately supervised by a person who has been so trained and only following assessment of the risk associated with this arrangement.

1.6 Safe Places of Work

CDM 2015 requires that every contractor shall require that every place of work, so far as is reasonably practicable, be made and kept safe for any person working there.

1.7 Competency and Resources

The Principal Contractor will need to establish and demonstrate that all Sub-Contractors, self-employed and others appointed are competent, have proven ability and are adequately resourced. In accordance with the CDM 2015 Regulations the contractor must utilise the facilities, documents and accreditations referenced with the above legislation as a means of assessing the competence of themselves and of those they appoint. The Principal Contractor is specifically directed to the Publicly Available Specification document (PAS 91:2013) and accreditation of the Safety Schemes in Procurement (SSIP). This may act as a method for demonstrating and assessing elements of competence.

2.0 DESCRIPTION

2.1 Site Location & Description

The site is located at Banbury 200, Southam Road, Banbury, OX16 2QU (see aerial photograph below).

The site is approximately 6.10ha and forms the southern part of the existing Jacobs Douwe Egberts (JDE) factory site. The site currently comprises a warehouse, part of the existing JDE factory (in the centre and north), with a lorry park and lorry wash in the west, a large car park in the east and grassed areas in the south and northwest.

There is an electricity sub-station in the southwest of the site. The warehouse was previously used as a storage area for JDE but is currently vacant.

There is a brook in the northwest of the site, which is then culverted (four pipes) below the warehouse, exiting on the eastern side of the warehouse (from two pipes) before flowing into the River Cherwell approximately 500m to the east.

The site slopes slightly down from the west to the east with an approximate 4m drop from the car park to the warehouse.

2.2 Nature of Works

Briefly described the project comprises the design and refurbishment of an existing warehouse facility with integral offices to maximise future use. External works included a new car park and renovated service yard along with drainage reinforcements.

2.3 Programme & Mobilisation

The Principal Contractor shall be required to submit their anticipated programme as part of their tender return. The Principal Contractor shall have sufficient time to mobilise for construction activity on this contract.

Construction Start:	To be discussed and agreed with the project team.
Practical Completion:	To be discussed and agreed with the project team.

2.4 Build Contract

The project will be carried out under a JCT Design and Build Contract 2016 as set out in the tender documents.

2.5 Project Team

2.5.1 Employer/Client:

Paloma 1 (Industrial 1) Unit Trust Ltd
Henry Wood House
2 Riding House Street
London
W1W 7FA

Contact: Jeremy Thiagarajah
Tel: 0203 595 4950

2.5.2 Development Manager:

Graftongate Developments Ltd
Victory House
26-28 Ludgate Hill
Birmingham
B3 1DX

Contact: Jamie Hockaday / Richard Smallman
Tel: 0121 200 2886

2.5.3 Employers Agent/QS:

RPS Consulting Services Ltd
321 Bradford Street
Digbeth
Birmingham
B5 6ET

Contact: Andrew Wilson / Louise Hodson
Tel: 0121 622 8520

2.5.4	Principal Designer:	RPS Consulting Services Ltd 321 Bradford Street Digbeth Birmingham B5 6ET Contact: Steven Faulkner Tel: 0121 622 8520
2.5.5	Architect: (Novated)	UMC Architects Ltd Newark Beacon Innovation Centre Cafferata Way Newark Nottinghamshire NG24 2TN Contact: Gary Hauton / Adam Stephenson Tel: 01636 653027
2.5.6	Structural/Civil Engineer: (Novated)	T R Collier Associates Rochester House 275 Baddow Road Essex CM2 7QA Contact: Terry Collier Tel: 01245 500360
2.5.7	Services Engineer: (Retained)	Halligan Associates 32 Ludgate Hill Birmingham B3 1EH Contact: Terry Halligan Tel: 0121 233 4733
2.5.8	Building Control:	C3 Design Approvals Ltd Communications House University Court Staffordshire Technology Park Stafford ST18 0ES Contact: Matthew Nock Tel: 07950 541123
2.5.9	Local HSE Office:	19 Ridgeway 9 Quinton Business Park Quinton Birmingham B32 1AL Tel: 0121 607 6200

2.6 CDM Duty Holder Responsibilities

All those who work in the construction industry have their part to play looking after their own employees' health and safety, and also in improving the industry's health and safety record.

2.6.1 Designers

A designer is any person who either prepares or modifies a design; or arranges for or instructs someone under their control to do so. The design relates to a structure or product, a mechanical or electrical system intended for a particular structure. A person is also deemed to prepare a design where a design is prepared by a person under their control.

WHAT DESIGNERS MUST DO FOR ALL PROJECTS

Designers must:

1. make sure that they are competent and adequately resourced to address the health and safety issues likely to be involved in the design
2. check that clients are aware of their duties
3. when carrying out design work, avoid foreseeable risks to those involved in the construction and future use of the structure. In doing so, they should eliminate hazards (so far as is reasonably practicable, taking account of other design considerations) and reduce risk associated with those hazards which remain
4. provide adequate information about any significant risks associated with the design
5. co-ordinate their work with that of others in order to improve the way in which risks are managed and controlled.

The Principal Contractor is to be made aware that the project is to be executed under a design and build contract therefore the design team is to be appointed directly by the contractor. In light of this, the Principal Contractor will be responsible for managing the communication and co-ordination of the design and for obtaining any relevant information (i.e. significant/unusual design risks) from his appointed design team.

NB: for the designer's preliminary safety considerations (design risk assessments) please refer to Appendix I of this document.

Appendix D of this report provides a copy of the Construction Industry Advisory Committee (CONIAC) Guidance Documents which have been produced for each of the six duty holders, which includes designers.

2.6.2 Principal Contractor

Please refer the following documents which set out the requirements for Principal Contractor under the CDM 2015 Regulations:-

1. Appendix A - L153 Managing Health & Safety in Construction.
2. Appendix D - CONIAC Industry Guidance for Principal Contractors.

2.7 Existing Records and Plans

The following information has been provided to assist with the safe planning and delivery of the works by the project team.

2.7.1 Existing Services/Utilities

Existing services and topographical information has been provided within Appendix F of this document. The Principal Contractor is to review all available services information prior to conducting any ground penetrating works on site. **NB:** the employers requirements document (section 150D) states **"the contractor is to be aware all utilities terminate at the site boundary at Southam Road. The contractor is to include all costs associated with extending the services from the termination point and into the warehouse".**

The Principal Contractor will be required to ascertain the extent of services prior and during the works through proprietary scanning of the site. Services must be isolated and made safe before undertaking any ground works in accordance with best practice. A record of the location of services must be kept and provided within the Health and Safety File which can be provided to any future incoming development contractor.

On commencement, the Principal Contractor will be required to follow best practice guidance when preparing the site prior to any ground-breaking excavation. It will be necessary to utilise utility records and service detection equipment, in accordance with HSG47. A copy can be found within Appendix F of this document.

2.7.2 Unexploded Ordnance

An unexploded bomb risk map (a desktop study produced by Zetica) has been obtained for the site location, which has been categorised as a **LOW** risk. This map has been used only as an indication to the level of risk in the area of works. A copy of the map can be found within Appendix G of this document.

The Principal Contractor shall be required to commission a detailed UXO survey by a specialist UXO consultant in order to more accurately assess and potentially zone, the UXO hazard level on the site, prior to the commencement of any groundwork activities.

Consideration should also be given for any measures required during their works including but not limited to training and supervision if required by UXB experts.

2.7.3 Asbestos

A Refurbishment and Demolition Asbestos Survey (produced by: Maylarch Environmental Surveying; dated: July 2016) has been carried out at the exiting warehouse and a copy of the report can be found within Appendix L of this document. **NB: the existing warehouse is currently undergoing the internal strip out of all fixtures/fittings/M&E including associated asbestos removal by Astec TM Ltd under a separate contract with a proposed completed date of 12th November 2018. On practical completion of these works all documentation related to the asbestos removal will be provided to the incoming Principal Contractor for the refurbishment works, i.e. updated asbestos register; hazardous waste consignment notes; air reassurance/4 stage clearance certification etc.**

In addition to the above, the Principal Contractor attention is drawn to the potential for unidentified ACMs to be discovered buried within the ground. The Principal Contractor should ensure that employees are suitably trained in the identification of ACMs and that procedures are in place to prevent unnecessary exposure should suspect material be identified. This should especially be the case when undertaking any groundworks.

NB: the Principal Contractor is to be advised that a guidance document has been produced by the CIRIA entitled 'Asbestos in soil and made ground practice site guide'. This guide builds on previous work undertaken by CIRIA in 'Guidance in Soil and Made Ground' (C733) published in 2014, which set out the risk assessment process and risk management framework for

asbestos in soils. The new guide is aimed at improving confidence in the control and management of expected and unexpected finds of asbestos. It covers:-

- The practical management of asbestos containing soils (ACS) in field conditions.
- How to avoid the unexpected discovery of ACS.
- The initial actions required to make a site safe.
- How to collect evidence to assess the risk in compliance with the Control of Asbestos Regulations (CAR) 2012.

Designed to be easy to understand, information is clearly set out with accompanying flow diagrams. A decision tree is provided that can be used to establish whether the work needs to be Licensed Work (LW), or can be managed as Non-Licensed Work (NLW). Control procedures are set out for both LW and NLW, together with information on competency and training. In addition, protocols for sampling and analysis are presented along with a useful pictorial guide of what to look for.

Should any ACMs be discovered on site, then works shall cease immediately with the area withdrawn from by contractor staff. The Principal Contactor will then notify the Client, the Project Manager and Principal Designer of the situation.

A UKAS accredited analyst should be arranged to analyse the suspected material. If the material is confirmed as containing asbestos of a type notifiable to the HSE, then the Principal Contractor shall follow the guidelines as laid down under the Control of Asbestos Regulations 2012. Following removal, the Principal Contractor will ensure copies of Waste Consignment Notes are obtained and retained for inclusion within the Health and Safety File.

NB: the Principal Contractor will be required to demonstrate within their Construction Phase Plan that they will have operatives on site trained to recognise ACMs at all times and that procedures are in place to prevent unnecessary exposure should suspect material be identified.

2.7.4 Ground Investigation

An investigation into the existing ground conditions has been carried out and reports have been produced which can be found within Appendix H of this document. The following reports have been included:-

- R/161279/001 - Ground Conditions Desk Study (by Hydrock Consultants Ltd; date: April 2016).
- R/161279/002 - Ground Investigation (by Hydrock Consultants Ltd; date: July 2016).

To summarise the Ground Investigation (ref: R/161279/002) report's findings:-

1. *Ground conditions encountered*

The ground conditions as proven by investigation comprise:-

- *Topsoil – to between 0.30m and 0.40m bgl, comprising orange brown sandy slightly gravelly clay; or*
- *Made Ground – to between 0.30m and 2.60m bgl, comprising asphalt or concrete over sandy gravel or clay comprising flint, concrete, ironstone, sandstone; over*
- *Alluvium, present in the east to depths of between 1.20m and 4.60m bgl, comprising soft to firm greenish grey slightly sandy clay with some rootlets and rare reeds. Mild organic odour; over*
- *River Terrace Deposits – to between 0.90m – 8.00m bgl, comprising loose to medium dense orange clayey gravel or firm (occasionally soft) gravelly clay of sandstone, ironstone and flint; over*

- *Charmouth Mudstone Formation – to the full depth of investigation at >20.14m bgl, comprising stiff grey thinly laminated clay becoming a very weak thinly laminated grey mudstone with some shell fragments and bands of limestone.*

2. *Groundwater*

Groundwater was encountered at between 0.90m bgl and 5.00m bgl during the investigation. Water levels recorded post-fieldwork range from 0.32m bgl to 3.76m bgl.

3. *Conclusions of contamination generic risk assessment*

Human health: *subject to agreement with the regulators, Hydrock does not believe the site poses a significant risk to site users. Asbestos noted in a small number of samples (2 out of 23 Made ground samples).*

Plant growth: *recorded US95 value for nickel in soil slightly in excess of the GAC. However, Hydrock considers that and no further assessment of this contaminant is required.*

Controlled waters: *low risk, subject to agreement with the regulators.*

Ground gases or vapours: *low risk from ground gases and CS 1 conditions apply.*

Water supply pipework: *brownfield site and the presumption in the guidance is that barrier pipe will be used.*

4. *Obstructions*

There is existing development on the site comprising an existing warehouse building and associated car parking. Obstructions were encountered at shallow depth in two locations and further obstructions associated with this development, including foundations, floor slabs and services, should be anticipated.

Heavy duty excavation plant/breaking equipment may be required to excavate the existing construction.

5. *Groundworks and earthworks*

Excavation to proposed founding depth generally should be readily achievable with standard excavation plant. Some collapse of the near surface soils was noted during drilling, requiring casing of all future boreholes.

Groundwater levels are generally shallow and dewatering may be required.

Excavated soils should be reusable as follows:
- *Made Ground - General Fill.*
- *Alluvium - landscaping material only.*
- *River Terrace Deposits - General and Structural Fill; and*
- *Charmouth Mudstone - General and Structural Fill.*

6. *Waste management*

Based on the results of the testing it is anticipated that the natural Alluvium and River Terrace Deposits may be classified as inert for off-site disposal purposes. Excavated Made Ground and Charmouth Mudstone Formation soils may be classified as non-hazardous.

NB: the Principal Contractor is to review the full reports prior to conducting any groundworks on site.

The Principal Contractor shall be required to record any ground conditions, contamination issues, constraints etc. that they encounter on the site and issue these in their Health and Safety File for the works.

The Principal Contractor is to develop safe systems of work to ensure that exposure to contaminated materials is minimised to site operatives and site visitors in accordance with the guidance contained within HSE document: "Protection of workers and the general public during the development of contaminated land (HSG66)".

2.7.5 Generally

The Principal Contractor is to review the information provided to ensure enough is known prior to commencing in order to mitigate risk.

In the event that any additional or specific information is required by the Principal Contractor that has not been supplied in relation to the existing site, identified hazards, service information or design considerations for the site or the intended works, the contractor should contact the project team immediately.

3.0 CLIENT'S CONSIDERATIONS AND MANAGEMENT REQUIREMENTS

3.1 Client Expectations/Requirements

3.1.1 Health and Safety Goals of the Project

The Client believes that construction projects should target zero harm, and thus efforts should be made to prevent any RIDDOR event. It would be expected that the Principal Contractor would be able to demonstrate these health and safety goals within their policy and management strategy.

The Client expects adequate Risk Assessments to be made and Safe Methods of Work to be adopted by trained workers under competent supervision.

Where adverse events (accidents & incidents) do occur, they should be recorded and reported to the project team and then individually discussed with the Principal Designer immediately.

The Principal Contractor is expected to keep the whole project team aware of developments on site. The Client will expect that an appropriate investigation should be made to determine the immediate, underlying and root causes of the adverse event. The adverse event investigation should ensure appropriate control measures are adopted to prevent the recurrence of similar events. All adverse event investigations and copies of relevant RIDDOR reporting forms (F2508 & F2508A) should be forwarded to the Project Manager and the Principal Designer.

HSG245 Investigating Accidents & Incidents - this document is a step-by-step guide which will help all organisations to carry out their own health and safety investigations. The link below 'Investigating accidents and incidents' explains why you need to carry out investigations and takes you through each step of the process.

HSE HSG245 - http://www.hse.gov.uk/pubns/books/hsg245.htm

3.1.2 Principles of Prevention

All duty holders are to take account of the general principles of prevention specified in Schedule 1 to the Management of Health and Safety at Work Regulations 1999.

Effective planning is concerned with prevention through identifying, eliminating and controlling hazards and risks. The need for risk control within the construction industry is particularly important because of the high-risk nature of the work and the reliance on a significant number of contractors and sub-contractors.

Eliminating risk is always the preferred approach where possible which requires substituting the dangerous substance or work practice by one which is not dangerous or less so. This is followed by combating the risk at source by engineering controls and giving collective measures a priority. Measures include remote operated vibrating machinery or machinery guarding. Finally, you should seek to minimise risk where the two other approaches are not possible by using for example personal protective equipment (PPE). PPE is always the last resort for protection from risks.

Duty holders should use these principles of prevention to direct their approach to identifying and implementing precautions that are necessary to control risks associated with the project.

3.1.3 Planning & Management of the Works

The construction works have been planned and will be managed by the project team. The Principal Contractor must continue with the principles established in terms of design risk management and safe working practises and work collaboratively with the team to deliver the scheme.

The Principal Contractor shall follow the recommendations of the manufacturer in respect of the storage, handling and installation of any material used in connection with the work.

3.1.4 The Workplace (Health, Safety & Welfare) Regulations 1992

The proposed works on the existing site will be subject to compliance with the Workplace (Health, Safety & Welfare) Regulations 1992.

3.1.5 Development of Construction Phase Plan

The Principal Contractor is required to provide a copy of their Construction Phase Plan as a demonstration of planning and management of the works as soon as possible.

Under no circumstances shall work commence without the Client having given their authority expressed in writing and until the Client has received and reviewed the content of the Principal Contractor's Construction Phase Plan. The Principal Designer will undertake on behalf of the Client the Construction Phase Plan review. They will advise both the Client and the Principal Contractor that it is suitably developed for a safe start on site.

The Client will not permit works to commence until they receive confirmation from the Principal Designer that the appropriate planning and preparation has taken place.

3.1.6 Permit Requirements

As a minimum, the Principal Contractor will implement permit to work systems for excavations (confined spaces) and service interruptions/works together with any works that will effect or restrict any adjacent premises/works. Any restrictions, site rules or permissions not already mentioned within this Pre-Construction Information relating to the existing site will be issued at a later date.

3.1.7 Communication

All communication to or by the Client will be made through the Project Manager and Principal Designer to ensure that all parties to the project are aware of communications and decisions made in relation to it.

Any design or construction matter which may affect the Health and Safety or the usability or maintainability of the completed building must first be discussed directly with the Project Manager and Principal Designer for comment before the amendment is incorporated into the design, and shall not be incorporated without the Client's express permission.

3.1.8 Setup & Accommodation

The Principal Contractor shall provide suitable and sufficient welfare facilities for the use of all persons employed on the site, in accordance with the provisions of Schedule 2 of CDM 2015.

The Principal Contractor is to review Schedule 2 of the HSE's 'Managing Health and Safety in Construction' (L153) which provides guidance on the minimum welfare facilities that must be provided or made available to workers on construction sites. A copy of this extract can be found within Appendix E of this document.

3.1.9 Temporary Works

The Principal Contractor will be responsible for coordinating design, selection of equipment, appointment of contractors, supervision of work, checking completion, authorisation to load and removal temporary works onsite. This must be done in a thorough and systematic way to prevent inadvertent collapse or structural failure of both temporary and permanent works. In addition, the Principal Contractor shall be responsible for providing designers and sub-contractors under their control with the necessary pre-construction information in order to fully design temporary works for the duration of the construction period.

Temporary works (TW) are the parts of a construction project that are needed to enable the permanent works to be built. Usually the TW are removed after use - e.g. access scaffolds, props, shoring, excavation support, falsework and formwork, etc. Sometimes the TW are incorporated into the permanent works.

The British Standard 5975 sets out one way of managing temporary works (TW) that has been found to work well on construction sites.

It uses the job title Temporary Works Coordinator (TWC). There is no legal requirement to use this job title or the BS recommended process, but the appointed Principal Contractor should remember that BS5975 provides an industry consensus view on what is considered to be good practice and that is what will be expected on this project. The Principal Contractor must include the name and responsibilities of those persons undertaking temporary works design and coordination.

The legal requirement is that the party in control must ensure that work is allocated and carried out in a manner that does not create unacceptable risk of harm to workers or members of the public.

NB: an example temporary works register has been included within Appendix K of this document.

3.2 Site Risks & Control Requirements

3.2.1 Location & Adjoining Land Use

As previously stated, the site is located at Banbury 200, Southam Road, Banbury, OX16 2QU.

The site is approximately 6.10ha and forms the southern part of the existing Jacobs Douwe Egberts (JDE) factory site. The site currently comprises a warehouse, part of the existing JDE factory (in the centre and north), with a lorry park and lorry wash in the west, a large car park in the east and grassed areas in the south and northwest.

There is an electricity sub-station in the southwest of the site. The warehouse was previously used as a storage area for JDE but is currently vacant.

There is a brook in the northwest of the site, which is then culverted (four pipes) below the warehouse, exiting on the eastern side of the warehouse (from two pipes) before flowing into the River Cherwell approximately 500m to the east.

The site slopes slightly down from the west to the east with an approximate 4m drop from the car park to the warehouse.

Sporadic trees and vegetation are present along the south and west of the site. Mature poplar trees are present just off site to the southeast.

The site is within a generally industrial/commercial setting in the north of Banbury. However, there are houses immediately to the southwest.

The site is bounded by industrial buildings (other parts of the Kraft factory) to the north, Southam Road and a grassed area to the east, a graveyard to the southeast, residential properties to the southwest and by Ruscote Avenue to the west.

3.2.2 Security

The Principal Contractor's attention is drawn to their duties under Construction (Design and Management) Regulations 2015.

Generally, the security of the site shall be the responsibility of the Principal Contractor to ensure the safety of individual work areas within the wider site using appropriate and safe means of access and egress. The security measures provided must be robust in nature to prevent any unauthorised access to the site.

Site security must be provided to all boundaries to the site including any provision deemed necessary to the boundary.

The site is to have access gate/s through which site deliveries and the operational traffic system will pass. Suitable construction site signage must be displayed around site perimeter. The site entry and exit gates must not open out onto public highway causing obstruction or risk to pedestrians/passing traffic.

All site visitors should be met at the gate and escorted to the site office where they will need to be inducted prior to commencing works onsite (unless as good practice dictates, a segregated pedestrian route is provided).

Contractors shall make appropriate arrangements around any materials left on or adjacent to site to ensure safety and security of those materials during and after working hours.

NB: the Principal Contractor shall have the responsibility to ensure the warehouse's intruder alarm system is set at all times when the contractor is not working on site. If the alarm fails to set or is required to be deactivated due to works on site then the contractor will be required to employ on site security until the alarm is reactivated.

3.2.3 Traffic Management

The Principal Contractor's attention is drawn to their duties under Construction (Design and Management) Regulations 2015. The Contractor shall be responsible for providing a satisfactory Traffic Management Plan as part of the Construction Phase Plan.

The successful Principal Contractor is to identify the traffic management arrangements inclusive of site deliveries, within their Construction Phase Plan. This Traffic Management Plan is to be kept updated as the development proceeds in line with programme.

All site deliveries and skip removals from the site are to take place within the site boundary. Banksmen should be made available to assist where necessary.

The Principal Contractor is requested to provide within their Construction Phase Plan a single drawing of the site indicating all key information in relation to traffic management and emergency procedures which enables issues or potential route clashes to be identified at an early stage. This single drawing may supplement other documents which the contractor wishes to produce.

The following issues are specifically drawn to the contractor's attention when considering their traffic management arrangements:-

1. Establish and agree access in conjunction with the Local Authority requirements and the Client.

2. Any temporary access requirements.
3. During the site works (particularly where works are taking place in the ground) the contractor must not allow construction debris, dirt and material onto the roadways. It is important to put in place on-site measures for control of mud and dust – e.g. base course/aggregate and/or wheel wash provision especially during ground works
4. All contractors' vehicles are to be contained within the site setup area.
5. Clear signage is required to direct contractors to the site entrance from the surrounding roads.
6. The Principal Contractor is to allow for temporary traffic management measures (where applicable) to allow the adjacent occupiers to remain operational for the duration of the works. The Principal Contractor will be fully responsible with managing the interface with any adjacent occupiers for the duration of the works.

NB: the Principal Contractor is to be aware that Waitrose are to have unrestricted access to the estates road at all times. Access must not be prohibited by the contractor.

As referenced previously in this Pre-Construction Information document, the Principal Contractor must ensure that they do not unduly affect any access to adjoining/adjacent buildings, businesses etc. for their access requirements. This would also include for emergency vehicle access and bin lorry collections, buses, etc. as applicable.

All contractors and vehicles delivering materials must be aware of the precise job location and the specific requirements for delivering to this site. Only deliveries to site will be permitted upon prior arrangement with site.

Delivery vehicles must have the correct information for the site. Failure to do this will result in delays and unnecessary traffic congestion to the project which is not acceptable.

Manoeuvring space within the site must be accommodated, and trained banksmen employed. Should the project team be made aware of any complaints from neighbours concerning the construction site over parking, blocking of entrances, leaving excessive mud on the roads, etc. then the contractor will be deemed to not be managing their activities sufficiently and appropriate action will be taken. It would be expected as a contract requirement that the successful Principal Contractor would apply for the site to be Considerate Constructors registered and thus this and other considerations would be included.

All traffic entry routes, parking provisions must be confirmed and communicated in the Construction Plan.

3.2.4 Fire Precautions & Fire Plan

The Principal Contractor's attention is drawn to their duties under Construction (Design and Management) Regulations 2015 and the Regulatory Reform (Fire Safety) Order 2005 and their statutory duties under that order.

Particular consideration should be given to the nature of potential substances which may have been left on the site. These should be assessed and removed in an appropriate manor.
The Principal Contractor must include any provision required to separate their works from the site areas which are to be occupied for certain periods of the works. This may include screens, fire curtains, restrictions on methodology especially in relation to hot works etc.

The Principal Contractor should utilise the best practice guidance as prescribed in the HSE publication HSG168 - Fire Safety in Construction

http://www.hse.gov.uk/pubns/priced/hsg168.pdf

Fire Risk Assessments resulting from compliance with the above shall be included with the initial Construction Phase Plan and submitted to the Principal Designer for review. The

Principal Contractor will be expected to review their Fire Risk Assessment throughout the construction phase and inform the project team of any significant changes.

The five steps for carrying out a Fire Risk Assessment:-

1. Identify hazards: consider how a fire could start and what could burn.
2. People at risk: employees, contractors, visitors and anyone who is vulnerable, e.g. disabled, elderly, children.
3. Evaluation and action: consider the hazards and people identified in 1 and 2 and act to remove and reduce risk to protect people and premises.
4. Record, plan and train: keep a record of the risks and action taken. Make a clear plan for fire safety and ensure that people understand what they need to do in the event of a fire.
5. Review: your assessment regularly and check it takes account of any changes on site.

Means of escape - key aspects to providing safe means of escape on construction sites include:-

- Routes: your risk assessment should determine the escape routes required, which must be kept available and unobstructed.
- Alternatives: well-separated alternative ways to ground level should be provided where possible.
- Protection: routes can be protected by installing permanent fire separation and fire doors as soon as possible.
- Assembly: make sure escape routes give access to a safe place where people can assemble and be accounted for.
- Signs: will be needed if people are not familiar with the escape routes. Lighting should be provided for enclosed escape routes and emergency lighting may be required.

Means of giving warning:-

Set up a system to alert people on site. This may be a temporary or permanent mains operated fire alarm (tested regularly), a klaxon, an air horn, whistle or a two-way radio system, depending on the size and complexity of the site. The warning needs to be distinctive, audible above other noise and recognisable by everyone. Details of the means of giving warning must be set out within the Principal Contractor's Construction Phase Plan. Given the size of the site the means of giving warning will need to be appropriate. It is recommended that a two way radio system is also used to improve communication in the event of an emergency.

Means of fighting fire:-

Fire extinguishers should be located at identified fire points around the site. The extinguishers should be appropriate to the nature of the potential fire:-

- Wood, paper and cloth - water extinguisher.
- Flammable liquids - dry powder or foam extinguisher.
- Electrical - carbon dioxide (C02) extinguisher.

Nominated people should be trained in how to use extinguishers.

The Fire Plan for the work shall include:-

(a) A drawing detailing the position of important features from the Fire Plan e.g. Call points, fire extinguishers, assembly points, smoke detectors etc.
(b) The Fire Action Notice detailing the actions to be taken in the event of a fire.
(c) Emergency telephone numbers required to summon the fire brigade.

(d) The name of the Fire Marshall.
(e) The Training Certificate of the Fire Marshall.

3.2.5 Health Considerations

Occupational health is often overlooked with safety matters given primary consideration. Health & Safety Executive statistics demonstrate that past exposures to harmful substances at work cause over an estimated 12,000 deaths per year.

Occupational health issues across the construction industry can be vast and include;

Risk of exposure to hazardous substances:-
- Asbestos
- Respirable dusts/sensitisers

Noise - construction workers are often exposed to noise above 1st and 2nd action levels.

Hand Arm Vibration - high vibration hand-tools.

Radiation - ionising radiation e.g. naturally occurring radon gas, and radioactive sources (non-ionising radiation includes visible light and ultra-violet light (which if not protected against can lead to skin cancers).

Musculoskeletal - manual handling needs to be reduced as far as possible.

Stress - including work related stress can be a significant cause of absenteeism, high staff turnover and accidents.

Skin - contact with hazardous substances – dermatitis, psoriasis, sun burn, cement burns, etc.

All of these are subject to specific assessment in accordance with all relevant legislation and guidance.

3.2.6 Emergency Procedures

The Principal Contractor's attention is drawn to their duties under Construction (Design and Management) Regulations 2015 and in particular the requirements for information which is to be included within the Construction Phase Plan.

The Principal Contractor shall include in his Construction Phase Plan, details of the Emergency Plan, Fire Plan, First Aid facilities, including name and contact details of first aider(s), location of first aid box and the full name, address and contact details of the nearest accident & emergency hospital. This plan will be required prior to any commencement of works on site.

The closest accident & emergency is the Horton General Hospital which is approximately 2.2 miles from the site:-

Horton General Hospital
Oxford Road
Banbury
Oxfordshire
OX16 9AL

Tel: 0300 304 7777

NB: a copy of the vehicular route map (including directions) can be found within Appendix J of this documentation.

3.2.7 Working at Height

The Work at Height Regulations 2005 set out a hierarchy which should be followed when planning any work at height. The hierarchy should be followed systematically and only when one level is not reasonably practicable may the next level down be considered.

Those planning work at height must avoid work at height where they can. Where this is unavoidable the use of work equipment or other measures to prevent falls must be considered:-

- By using an existing (950 mm minimum height) parapet wall preferably 1100mm.
- Erecting permanent or temporary folding edge protection.
- Using a MEWP to carry out the work from within.

Where they cannot eliminate the risk of a fall by the use work equipment. Other measures are to be considered to minimise the distance and consequences of a fall, e.g. by using nets, air or bean bags or a fall-arrest harness system.

Those in control of the work must also:-

- Always consider measures that protect all those at risk, i.e. collective protection systems such as scaffolds, nets, soft landing systems, before measures that only protect the individual, e.g. personal protection measures such as harnesses.
- Always consider passive systems such as nets (where the individual does not have to do anything to activate the system) before active systems such as harnesses (where the worker has to clip on).
- Make sure work is carried out only when weather conditions do not endanger the health and safety of workers.

Where Working at Heights (WAH) hazards are present, the Principal Contractor shall include the Emergency Procedure associated with the WAH hazard in the Construction Phase Plan.

3.2.8 Confined Spaces

Where Confined Space Hazards are present, the Principal Contractor shall include the Emergency Procedure associated with the Confined Space hazard in the Construction Phase Plan.

3.2.9 Live Services

Existing services and topographical information has been provided within Appendix F of this document. The Principal Contractor is to review all available services information prior to conducting any ground penetrating works on site. **NB:** the employers requirements document (section 150D) states **"the contractor is to be aware all utilities terminate at the site boundary at Southam Road. The contractor is to include all costs associated with extending the services from the termination point and into the warehouse".**

Prior to commencement on site the appointed Principal Contractor will be required to follow good practice guidance when preparing the site prior to any ground-breaking and/or excavation. It will be necessary to utilise service detection equipment, in accordance with HSG47 available in Appendix F. All findings from this survey are to be recorded and included within the Health and Safety File for the works. Refer to information provided in section 2.7 of this document.

The Principal Contractor must have in place, and have issued to his employees, written procedures for carrying out works within the vicinity of live electric cables, water, gas and live drainage systems.

It is essential that equipment, machinery or installations are prepared for the work to be carried out. This includes the isolation and release of all sources of energy (electrical, mechanical, pneumatic, etc.).
Isolation of energy sources should be secure, meaning that energy cannot be inadvertently re-introduced into the equipment, machinery or installation. All work should be thoroughly planned so that it can be done safely and so that the completed installation or equipment is safe.

HSE booklet electricity at work, safe working practices provides information on how to plan electrical work in a wide range of industries.

http://www.hse.gov.uk/pubns/priced/hsg85.pdf

Where there are known live services on or around the construction zone, the Principal Contractor shall include the Emergency Procedure for Electrocution, in the Construction Phase Plan.

3.2.10 First Aid

The First Aid and Injury Plan for the work shall include:-

(a) A drawing detailing the on-site first aid facilities, the location of first aid box, the location of any additional first aid equipment not included in the standard first aid box [e.g. copious quantities of fresh water for burns, eye wash bottles etc.],
(b) The full name and address of the nearest accident & emergency hospital.
(c) Emergency numbers required to obtain emergency medical assistance.
(d) The name of the first aider.

HSE First Aid Assessment Tool:-

The tool is designed to help employers determine the number and type of first-aid personnel to provide in their workplace i.e. Construction Site.

http://www.hse.gov.uk/firstaid/assessmenttool.htm

3.2.11 Smoking, Drugs & Alcohol

The Principal Contractor will designate a smoking area on the site. Smoking shall not be permitted at any time in the working areas. Cigarette butts and other smoking-related rubbish must be properly disposed of in the appropriate containers. Open flames, such as cigarette lighters and matches, are strictly prohibited in areas where flammable liquids, gases, or highly combustible materials are stored, handled, or processed.

The use of alcohol, drugs, prescription or over-the-counter medications that adversely affect the employee's performance or endanger the health of the employee or the safety of others will not be tolerated. The Site Manager should be made aware of any prescription or over the counter medications that could adversely affect the safety or performance of site operatives.

3.2.12 Lifting Operations

Where lifting operations are to be undertaken then these shall be planned and document in accordance with the Lifting Operations and Lifting Equipment Regulations 1998 (LOLER). This is particular relevant when erecting steelwork for the frame of the building.

The Principal Contractor shall take into consideration the following when developing his management procedures for the site (not an exhaustive list):-

- Existing underground services.

- Weather (especially high winds).
- Safe working loads.
- Ground conditions/stability.
- Oversailing existing buildings/highway/footpaths.
- Site security and segregation.
- Competency of sub-contractor and his staff.

3.3 Environmental Constraints & Control Requirements

3.3.1 Ground Conditions & Contamination

As previously stated, an investigation into the existing ground conditions has been carried out and reports have been produced which can be found within Appendix H of this document. The following reports have been included:-

- R/161279/001 - Ground Conditions Desk Study (by Hydrock Consultants Ltd; date: April 2016).
- R/161279/002 - Ground Investigation (by Hydrock Consultants Ltd; date: July 2016).

To summarise the Ground Investigation (ref: R/161279/002) report's findings:-

1. *Ground conditions encountered*

The ground conditions as proven by investigation comprise:-

- *Topsoil – to between 0.30m and 0.40m bgl, comprising orange brown sandy slightly gravelly clay; or*
- *Made Ground – to between 0.30m and 2.60m bgl, comprising asphalt or concrete over sandy gravel or clay comprising flint, concrete, ironstone, sandstone; over*
- *Alluvium, present in the east to depths of between 1.20m and 4.60m bgl, comprising soft to firm greenish grey slightly sandy clay with some rootlets and rare reeds. Mild organic odour; over*
- *River Terrace Deposits – to between 0.90m – 8.00m bgl, comprising loose to medium dense orange clayey gravel or firm (occasionally soft) gravelly clay of sandstone, ironstone and flint; over*
- *Charmouth Mudstone Formation – to the full depth of investigation at >20.14m bgl, comprising stiff grey thinly laminated clay becoming a very weak thinly laminated grey mudstone with some shell fragments and bands of limestone.*

2. *Groundwater*

Groundwater was encountered at between 0.90m bgl and 5.00m bgl during the investigation. Water levels recorded post-fieldwork range from 0.32m bgl to 3.76m bgl.

3. *Conclusions of contamination generic risk assessment*

Human health: *subject to agreement with the regulators, Hydrock does not believe the site poses a significant risk to site users. Asbestos noted in a small number of samples (2 out of 23 Made ground samples).*

Plant growth: *recorded US95 value for nickel in soil slightly in excess of the GAC. However, Hydrock considers that and no further assessment of this contaminant is required.*

Controlled waters: *low risk, subject to agreement with the regulators.*

Ground gases or vapours: *low risk from ground gases and CS 1 conditions apply.*

Water supply pipework: *brownfield site and the presumption in the guidance is that barrier pipe will be used.*

4. *Obstructions*

There is existing development on the site comprising an existing warehouse building and associated car parking. Obstructions were encountered at shallow depth in two locations and further obstructions associated with this development, including foundations, floor slabs and services, should be anticipated.

Heavy duty excavation plant/breaking equipment may be required to excavate the existing construction.

5. *Groundworks and earthworks*

Excavation to proposed founding depth generally should be readily achievable with standard excavation plant. Some collapse of the near surface soils was noted during drilling, requiring casing of all future boreholes.

Groundwater levels are generally shallow and dewatering may be required.

Excavated soils should be reusable as follows:
- *Made Ground - General Fill.*
- *Alluvium - landscaping material only.*
- *River Terrace Deposits - General and Structural Fill; and*
- *Charmouth Mudstone - General and Structural Fill.*

6. *Waste management*

Based on the results of the testing it is anticipated that the natural Alluvium and River Terrace Deposits may be classified as inert for off-site disposal purposes. Excavated Made Ground and Charmouth Mudstone Formation soils may be classified as non-hazardous.

NB: the Principal Contractor is to review the full reports prior to conducting any groundworks on site.

The Principal Contractor shall be required to record any ground conditions, contamination issues, constraints etc. that they encounter on the site and issue these in their Health and Safety File for the works.

The Principal Contractor is to develop safe systems of work to ensure that exposure to contaminated materials is minimised to site operatives and site visitors in accordance with the guidance contained within HSE document: "Protection of workers and the general public during the development of contaminated land (HSG66)".

The site conditions will require very careful consideration. The Principal Contractor is therefore required to record any ground conditions, contamination issues, constraints etc. that they encounter on the site and issue these in their Health and Safety File for the works.

3.3.2 Pollution

The Principal Contractor will be required to take all reasonable steps and comply with all relevant legislative requirements to ensure that they minimise any pollution as a result of their works.

3.3.3 Waste

All waste skips are to be accommodated within the boundaries to site. Collection of all skips must be controlled to ensure overspill to site areas is minimised and no waste is lost upon entering the main carriageway from site, potentially causing an accident or congestion.

Please also refer to section 7 of this report for further requirements regarding the management of waste on site.

3.3.4 Existing Storage of Hazardous Materials

We have not been made aware of any hazardous materials being stored on the site. A full assessment of the site must be undertaken prior to commencement of the works.

3.3.5 Existing Structures & Hazards (Including Known Previous Modification)

As stated previously, there is existing development on the site comprising an existing warehouse building and associated car parking. Obstructions were encountered at shallow depth in two locations and further obstructions associated with this development, including foundations, floor slabs and services, should be anticipated. Heavy duty excavation plant/breaking equipment may be required to excavate the existing construction.

For further details please refer to the site/ground investigation reports (produced by Hydrock) within Appendix H of this document.

3.3.6 Asbestos

As stated previously, a Refurbishment and Demolition Asbestos Survey (produced by: Maylarch Environmental Surveying; dated: July 2016) has been carried out at the exiting warehouse and a copy of the report can be found within Appendix L of this document. **NB: the existing warehouse is currently undergoing the internal strip out of all fixtures/fittings/M&E including associated asbestos removal by Astec TM Ltd under a separate contract with a proposed completed date of 12th November 2018. On practical completion of these works all documentation related to the asbestos removal will be provided to the incoming Principal Contractor for the refurbishment works, i.e. updated asbestos register; hazardous waste consignment notes; air reassurance/4 stage clearance certification etc.**

In addition to the above, the Principal Contractor attention is drawn to the potential for unidentified ACMs to be discovered buried within the ground. The Principal Contractor should ensure that employees are suitably trained in the identification of ACMs and that procedures are in place to prevent unnecessary exposure should suspect material be identified. This should especially be the case when undertaking any groundworks.

NB: the Principal Contractor is to be advised that a guidance document has been produced by the CIRIA entitled 'Asbestos in soil and made ground practice site guide'. This guide builds on previous work undertaken by CIRIA in 'Guidance in Soil and Made Ground' (C733) published in 2014, which set out the risk assessment process and risk management framework for asbestos in soils. The new guide is aimed at improving confidence in the control and management of expected and unexpected finds of asbestos. It covers:-

- The practical management of asbestos containing soils (ACS) in field conditions.
- How to avoid the unexpected discovery of ACS.
- The initial actions required to make a site safe.
- How to collect evidence to assess the risk in compliance with the Control of Asbestos Regulations (CAR) 2012.

Designed to be easy to understand, information is clearly set out with accompanying flow diagrams. A decision tree is provided that can be used to establish whether the work needs to be Licensed Work (LW), or can be managed as Non-Licensed Work (NLW). Control procedures are set out for both LW and NLW, together with information on competency and training. In addition, protocols for sampling and analysis are presented along with a useful pictorial guide of what to look for.

Should any ACMs be discovered on site, then works shall cease immediately with the area withdrawn from by contractor staff. The Principal Contactor will then notify the Client, the Project Manager and Principal Designer of the situation.

A UKAS accredited analyst should be arranged to analyse the suspected material. If the material is confirmed as containing asbestos of a type notifiable to the HSE, then the Principal Contractor shall follow the guidelines as laid down under the Control of Asbestos Regulations 2012. Following removal, the Principal Contractor will ensure copies of Waste Consignment Notes are obtained and retained for inclusion within the Health and Safety File.

NB: the Principal Contractor will be required to demonstrate within their Construction Phase Plan that they will have operatives on site trained to recognise asbestos containing materials at all times and that procedures are in place to prevent unnecessary exposure should suspect material be identified.

3.3.7 Unexploded Ordnance

As stated previously, an unexploded bomb risk map (a desktop study produced by Zetica) has been obtained for the site location, which has been categorised as a **LOW** risk. This map has been used only as an indication to the level of risk in the area of works. A copy of the map can be found within Appendix G of this document.

The Principal Contractor shall be required to commission a detailed UXO survey by a specialist UXO consultant in order to more accurately assess and potentially zone, the UXO hazard level on the site, prior to the commencement of any groundwork activities.

Consideration should also be given for any measures required during their works including but not limited to training and supervision if required by UXB experts.

3.3.8 Health Risks Associated with the Works

Other than those issues mentioned previously within this document, no atypical health risks are believed to be associated with the new building materials proposed other than those that are standard to undertaking any construction activity, which a competent contractor is used to managing. However, a number of common materials may be used that could cause hazards if manufacturer's instructions are not followed.

The Principal Contractor is to obtain manufacturer's COSHH datasheets on all products that they may have identified as a potential risk, to enable them to carry out suitable and sufficient risk assessments and dependent on the findings introduce adequate control measures within his Construction Phase Plan. The Principal Contractor is to identify any hazardous materials and undertake the necessary Assessments as required by the Control of Substances Hazardous to Health (COSHH) Regulations 2002.

The Principal Contractor should be aware that they are required to plan and implement significant control measures and controlled methodology for the works in order to execute the works safety. Please refer to section 4.0 of this report for a list of works which we considered to present significant risks to the contractor undertaking works on site.

4.0 SPECIFIC HAZARDS & RISKS

The following hazards, risks and control measures have been compiled by the Principal Designer based on the information provided by the client and his project team. This list is not exhaustive and the Principal Contractor should not consider this a list of all risks and hazards present on the scheme. The Principal Designer has not set out standard risks which an experienced and competent contractor should be expected to manage as part of their management arrangements and day to day running of the site.

- Working in close proximity/adjacent to occupied premises.
- Ground conditions and contamination.
- Excavations.
- Unidentified underground services (live) - the contractor is responsible for verifying this information and undertaking proprietary testing on site.
- Unidentified underground structures.
- Discovery of unexploded ordnance (UXO).
- Discovery of asbestos containing materials (ground).
- Falls from height, i.e. roof level; temporary structures etc.
- Erection of temporary works, (i.e. excavation formwork; propping (structural) etc), this must be designed by a competent person in line with the relevant British Standards and good practice.
- Requirement for banksmen and/or gatemen for all vehicle movements into the site (gates to be kept closed wherever possible to limit the opportunity for unauthorised access).
- Install on-site wheel washing/employ contract road sweepers (in accordance with considerate constructors).
- Traffic/pedestrian collisions with manoeuvring vehicles, segregate where possible, loss of loads, slips/trips/falls.
- Adequate security of the site. All entry points to the site are to be kept shut and locked at all times other than when being used. Where gates are open a guard/banksman is required.
- Dust, noise, vibration and other emissions from plant and machinery.
- Inclement weather conditions, i.e. snow, ice, mud etc. - ensure appropriate measures are taken to ensure for safety of site operatives, moving vehicles and members of the public when using pavements near to site entry and exit points.
- Fire risk, ensure flammable materials are kept away from ignition sources and skips away from buildings.
- Onsite storage of explosive materials (fuels, solvents, compressed air etc.) and or use of hazardous and combustible materials (COSHH).
- Manual handling operations, particularly repetitive handling such as material shifts. Reduce weights and mechanise the process wherever possible by placing materials close to where required.
- Hand-arm Vibration Syndrome (HAVs), ensure tools and equipment with low HAV's ratings are selected for the work, the aim should be to use tools emitting HAV's below the threshold limit, monitoring of exposures should be recorded in order to provide suitable health surveillance.
- Non-involvement of the Principal Designer in significant design changes/development and construction etc.

NB: for the designer's preliminary significant risks (design risk assessments) please refer to Appendix I of this document.

5.0 DESIGN DEVELOPMENT & CONTROL (INCLUDING TEMPORARY WORKS)

The Principal Contractor is expected to commission a competent person either internally or externally to undertake any design work. Duty holders should use the 'principles of prevention' to direct their approach to identifying and implementing precautions which are necessary to control risks associated with this project.

As previously stated, the Principal Contractor is to be made aware that the project is to be executed under a design and build contract therefore the design team is to be appointed directly by the contractor. In light of this, the Principal Contractor will be responsible for managing the communication and co-ordination of the design and for obtaining any relevant information (i.e. significant/unusual design risks) from his appointed design team.

The Principal Contractor is required to carry out a detailed hazard identification exercise to state required controls, provide necessary method statements and incorporate these into the Construction Phase Plan.

The risk analysis takes into consideration previously identified hazards, assess the severity of the risk and where appropriate indicate the consideration given by Designer's to health and safety.

The Principal Contractor is required to fully address the issue of risk analysis in developing the Construction Phase Plan.

The Principal Contractor must ensure that method statements and risk assessments are obtained (for sub-contractors (if applicable)) prior to relevant activities being undertaken on site.

There are no particular work methods or sequences that have been identified or control measures highlighted that a competent contractor would not be aware of in undertaking the construction of the development.

The Principal Contractor will liaise with his appointed design team relating to any design undertaken in the construction stage.

The Principal Contractor will be responsible for co-ordinating any design carried out by sub-contractors including where this has an impact on the health and safety of those carrying out construction work, cleaning, maintenance or demolition of the structure or any equipment installed as part of the project. **NB:** minutes of relevant meetings will be taken and recorded within the Construction Phase Plan.

Any changes in design that have a significant impact on health and safety will be notified to the Principal Designer at the earliest possible opportunity. Where these have a significant effect on health and safety, the proper risk review should be undertaken by the designer in line with their duties under CDM 2015. This is particularly relevant for any elements that involve the design of temporary works.

Where the Principal Contractor (including his sub-contractors) and others have a design input into elements or components of the works, their duties under CDM 2015 are the same as any other 'Designer'. They shall give the same due consideration to their designs in terms of health and safety and follow the same procedures of hazard identification and risk assessment as required of all Designer's within CDM 2015 and the Approved Code of Practice.

The Principal Contractor shall be responsible for preparing a list of parties with design input ('design' as defined in the CDM 2015). Contact names, addresses, telephone numbers shall be given to the Principal Designer.

The Principal Contractor must provide details of procedures that must be observed where unforeseen eventualities during project execution result in substantial design changes which might affect the allocation of health and safety resources.

The Principal Contractor must provide information on the arrangements for the co-ordination of ongoing design work and handling design changes.

The Principal Designer is to be invited to design team meetings and included on the distribution of all design team minutes to enable the Principal Designer's duties to be fulfilled.

The Principal Contractor is to ensure that any unforeseen eventualities regarding health and safety are immediately notified to the Principal Designer.

6.0 HEALTH & SAFETY FILE

6.1 Health and Safety File

Generally:

During the course of the contract a Health and Safety File will be prepared for retention by the Client at completion of the works. The Design team and Principal Contractor are required to supply information to the Principal Designer, whose duty it is to ensure that the Health and Safety File is prepared.

The appointed Principal Contractor shall be responsible for the collection of all information for the inclusion into the Health and Safety File. These documents must be supplied in a format (including electronic), which can be inserted directly into the file without alteration or amendment as required by the Principal Designer and agreed by the Client, and other consultants.

The Health and Safety File shall also contain records and information relating to the works carried out on this project which may cause hazards or risks to any person involved with the site in the future.

The Principal Designer shall be responsible for reviewing the Principal Contractor's prepared Health and Safety File.

The Principal Contractor shall ensure that the Health and Safety File information and building manuals are in place and substantially complete no later than two weeks post completion of the works and issued promptly to the Principal Designer. The satisfactory issue/delivery of the Health and Safety Files to the Client will be on the completion of the project. The O&M manuals may be subject to the separate review and approval of the Client's consultants.

Presentation:

The Principal Contractor shall supply his hard copy Health and Safety File information and any supporting O&M manuals in white 65mm presentation binders with each binder/volume being numerically referenced to indicate clearly its volume number and to which set/copy of the Health and Safety File information and supporting building & O&M manuals it belongs i.e. copy number, volume number, and supplied in document boxes appropriately labelled to indicate what volumes they each contain i.e. volumes 1 to 4, etc. Boxes must not be excessive in weight.

All inclusions of drawings, certification, product literature, calculations and schedules etc. must be accompanied by register's/schedules or contents lists. The Principal Contractor will supply his electronic copies of the Health and Safety File information and supporting O&M manuals on CD in a portable document format (PDF) and compiled in line with the confirmed hard copy, using the volume log and index as the route to the CD's contained information via hyperlinks. The Principal Contractor shall prepare and supply an overall description of the Health and Safety File information inclusive of all building and O&M manuals, this description will be in the form of a volume log and will list all the individual binders/volumes being supplied together with details of contents and supplier etc.

As a minimum the files shall include all information set out within the Employers Requirements document together with the following:

Work Details

A brief description of the work carried out.

Residual Hazards

Information on any residual hazards which remain and how they have been dealt with. For example, services locations, surveys or any working at height that may be required, etc.

Key Structural Principles

The health and safety file should contain details of the design concepts behind various elements of the structure. For example, safe working loads for floors and particularly where these may preclude heavy equipment there.

A checklist would include:

- Structural load-bearing.
- Cladding/infill.
- Curtain walling and window systems.
- Floor structures.
- Mechanical services' design concept, e.g. negative pressure systems.
- Electrical services' design concept, e.g. whether all electric lighting is on one circuit or on a floor-by-floor basis.

The file should identify any specific sequence that was used in the erection of the building and which might need to be reversed during alterations or demolition.

Hazardous Materials Used

Potentially hazardous materials that may be identified on the drawings or as a separate piece of documentation include:

- Flammable finishes.
- Various types of insulating materials.
- Special coatings which should not be burnt off.

Health and Safety Information Required for Maintaining the Structure

The file must set out the various elements within the building that are provided for maintenance and cleaning purposes and which have health and safety implications for those using them, including:

- Facilities for maintenance of cladding/windows, roof areas and access restrictions.
- Mansafe details/design, access point onto roof area.
- Green roof areas and/or PV panels, as applicable.
- Other design features and / or plant that require periodic cleaning and maintenance.
- Mechanical equipment requiring inspection, testing and maintenance (O&M's).
- Electrical equipment requiring inspection, testing and maintenance (O&M's).

These procedures should include details about the required frequency of cleaning and the types of cleaning materials to be used and those to be avoided.

Significant Services

Included in the file should be information on the nature, location and markings of significant services, including electricity, water, gas and telecommunications etc. It is good practice to also provide this information on one colour-coded plan.

Information and As-built Drawings

Information and as-built drawings should be included of the structure (for example, the means of safe access to and from service voids, fire doors and compartmentalisation, etc.).

The drawings should be the final, "as-built" version (i.e. as amended from the originals through the construction process). These will represent the final structure as it actually exists and not just as it was conceived.

The drawings should:

- Indicate the position of incoming services and distribution (any or all of which may be concealed).
- Indicate the location and details of various building materials used.
- Identify the various types of insulation material, flammable finishes, etc. that may represent hazards if they are disturbed.
- Make cross references to the information on hazards where appropriate.

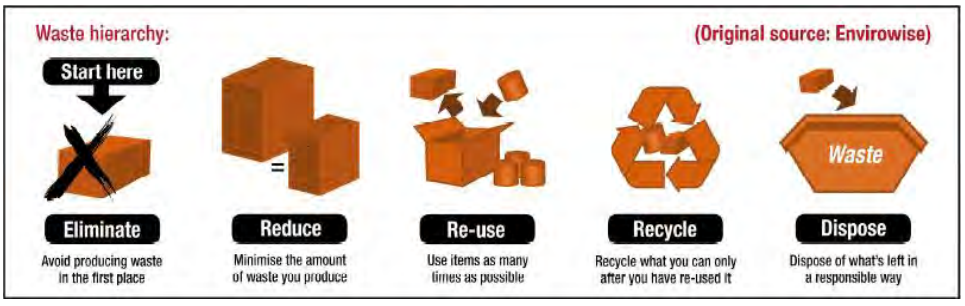
7.0 SITE WASTE MANAGEMENT PLAN

The preparation of a Site Waste Management Plan (SWMP) is no longer a legal requirement but Client team still wish for its implementation to record the site waste generated. The Principal Contractor is directed by the Client to ensure that a SWMP is written at the construction design stage. The Principal Contractor is then required to maintain and update the SWMP during the entire project. This can be achieved by updating the plan with the site's day-to-day activity. The SWMP must be kept for at least two years after the project has finished, either at the project site, or at the Principal Contractor's main place of business.

NetRegs link: http://www.netregs.org.uk/library_of_topics/checklists/construction_swmps.aspx

SWMP Step Diagram

Waste Hierarchy



Waste Duty of Care

The Principal Contractor has a legal responsibility to ensure that they produce, store, transport and dispose of controlled waste without harming the environment. This is called your duty of care.

NetRegs Link: http://www.netregs.org.uk/library_of_topics/waste/duty_of_care.aspx

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Appendix I – Risk Definitions

Contaminated Land Risk Definitions

The following methodology is based on the methodology presented in CIRIA C552 Contaminated Land Risk Assessment: A Guide to Good Practice 2001. It requires the classification of the:

Magnitude of the potential consequence (severity) of the Risk occurring: and

Magnitude of the Probability (likelihood) of the Risk occurring.

The classifications are then compared to indicate the risk presented by each pollutant linkage.

Consequence to Receptor Definition Matrix

	Human Health	Controlled Waters	Buildings/Services
Severe Consequence	Acute or chronic permanent impact on human health.	Sensitive controlled water pollution ongoing, or just about to occur.	Catastrophic collapse
Medium Consequence	Chronic permanent impact on human health	Gradual pollution of sensitive controlled water	Degradation of materials
Mild Consequence	Chronic temporary impact on human health	Gradual pollution of non-sensitive controlled water	Damage to building rendering it unsafe.to occupy (e.g. foundation damage resulting in instability).
Minor Consequence	Non-permanent health effects to human health (easily prevented by means such as personal protective clothing etc).	Slight discoloration of water	Easily repairable effects of damage to buildings, structures and services, i.e. discoloration of concrete

Probability Definitions

Probability	Definition in Context
Higher	There is a pollution linkage and an event that either appears very likely in the short term and almost inevitable over the long term, or there is evidence at the receptor of harm or pollution. Positive evidence of source, pathway and receptor.
Likely	There is a pollution linkage and all the elements are present and in the right place, which means that it is probable that an event will occur. Circumstances are such that an event is not inevitable, but possible in the short term and likely over the long term. Suspect source, pathway, and receptor
Low Likelihood	There is a pollution linkage and circumstances are possible under which an event could occur. However, it is by no means certain that even over a longer period such event would take place, and is less likely in the shorter term.
Unlikely	There is a pollution linkage but circumstances are such that it is improbable that an event would occur even in the very long term. No evidence of hazard, pathway, and receptor

Standard Risk Matrix

		Consequence/Magnitude of impact			
		Severe	**Medium**	**Mild**	**Minor**
Probability	**High**	Very High	High	Moderate	Moderate/Low
	Likely	High	Moderate	Moderate/low	Low
	Low Likelihood	Moderate	Moderate/low	Low	Very Low
	Unlikely	Moderate/low	Low	Very Low	Very Low

Classified risks and likely action

Significance Level	Definition/Comments
Very High Risk	There is a high probability that severe harm could arise to a designated receptor from an identified hazard, OR, there is evidence that severe harm to a designated receptor is currently happening. This risk, if realised, is likely to result in a substantial liability. Urgent investigation (if not undertaken already) and remediation are likely to be required. Demonstrable contaminated land situation, highest threat & liability level, urgent action recommended.
High Risk	Harm is likely to arise to a designated receptor from an identified hazard. Realisation of the risk is likely to present a substantial liability. Urgent investigation (if not undertaken already) is required and remedial works may be necessary in the short term and are likely over the longer term. Likely contaminated land situation, risk assessment and action recommended.
Moderate	It is possible that harm could arise to a designated receptor from an identified hazard. However, if is either relatively unlikely that any such harm would be severe, or if any harm were to occur it is more likely that the harm would be relatively mild. Investigation (if not already undertaken) is normally required to clarify the risk and to determine the potential liability. Some remedial works may be required in the longer term. Plausible contaminated land situation, risk assessment and possible action recommended.
Low Risk	It is possible that harm could arise to a designated receptor from an identified hazard, but it is likely that this harm, if realised, would at worst normally be mild. Unlikely contaminated land situation, possible risk assessment and possible action.
Very Low Risk	There is a low possibility that harm could arise to a receptor. In the event of such harm being realised it is not likely to be severe. Negligible risk, no action recommended except vigilance for changes in conditions.

Geotechnical Risk Classification

The geohazards listed in the report within Section 4 follow guidance presented in Clayton, C.R.I. (2001) *Managing Geotechnical Risk*, Thomas Telford and the Highways Agency document CD622 '*Managing Geotechnical Risk*' (2008) which aims to identify and manage the geotechnical risks associated with a scheme throughout its lifespan, from planning to construction to maintenance.

For each geohazard the probability of the hazard occurring (P) has been considered together with the impact it would have (I) if it were to happen to calculate the risk rating between 1 and 25.

Risks that fall within Moderate, Significant and Severe categories below are considered to be ***substantial*** and are therefore listed within the report.

Probability	**(P)**
Very Likely (VLk)	5
Likely (Lk)	4
Plausible (P)	3
Unlikely (U)	2
Very Unlikely (VU)	1

X

Impact	**(I)**
Very High (VH)	5
High (H)	4
Medium (M)	3
Low (L)	2
Very Low (VL)	1

=

(R)	**Risk**
20 – 25	Severe
15 – 19	Substantial
10 – 14	Moderate
5 – 9	Minor
1 – 4	Negligible