

Repo	ort No: 5179721	1 PI	р 		Issue No: 1 Page 4 of 6
STAC	nanominana en la companya en la comp	Visu	al inspe	ection	
2.1	Is there adequate lighting and essential equipment within the enclosure / work area	Yes	,40	4	COMMENTS:
2.2	Is the enclosure internal construction intact	Fes) Ng	- MA	
2.3	Is the enclosure / work area dry	(es)	MO		
2.4	Is there plant / equipment within the enclosure / work area	(es)	,MO		Report To comments Belan
2.5	Is there the presence of fine settled dust to any surfaces within the enclosure / work area	Yes	6		
2.6	Has all the ACM specified in the plan of work been removed / encapsulated	ĆĐ	NO		
2.7	Is there ACM remaining within the enclosure / work area not specified for removal in the plan of work	(res)	NO		Revor To comments Below.
2.8	Is there evidence of inaccessible ACM or reason to suspect its presence within the enclosure / work area	Yes	No	n	
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		ND		
2.10	Is there loose rubble flooring within the enclosure / work area	Yes	\bigcirc		
2.11	Have waste bags, materials, unnecessary equipment been removed from the enclosure / work area	(Yes)	_ 40		
2.12	Is there evidence or reason to suspect the general use of sprayed sealants	Yea	Ø	}	
2.13	Is air extraction equipment in situ and in operation	(ves)	Ner	MA	
2.14	Has each air extractor been fitted with new pre-filters	(res)	No	MTA	
2.15	Stage 2 visual inspection duration:	15	5 Mi	רע 2	
	2 RESULT	Passe		h	Date: 22/10/18 Time: 1055
	CLOSURE INCLUDING AIRLOCK AND BA BLE ASBESTOS WASTE, DEBRIS AND SU			BAGLOCI	(CONSTRUCTED) OR DESIGNATED WORK AREA IS FREE
Asses	sment carried out by: $\mathbb{D} \cdot \phi$	hill	ips	กษณะสาราสารา	Signature: Wantlins
	DNAL COMMENTS: THE PIPE i	s 5t	ill f	NEW	IT AND has Been wrapped in Poly Alart
				^	been cleaned to allow a W- point,
					owing a SATISVACTORY AIVTEST The MP
					to Allow The scaleday Toner To be
York	o to Next Avel, se	affe	ich	لمانا	be inspected following completion of
<u>a</u>	Issue date: 28.02.14		~		

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STAGE	3 OF 4			Clearance	air monitor	ing							
3.1 [Estimated size	of enclosure		16	112/62	3.2	Are all a	ireas withi	in the enclosu	re / work are	ea dry	(es) Mo	_
	s there evidend he use of spra		o suspect	Year	(No)	3.4			uipment to th pre-filters cap			D NO	
3.5	lumber of air s	amples collec	xted	2		3.6	Method	of dust rai	sing activities	·	Bru	SUN	
	lumber of air n	neasurements	required	2		3.0	Duration	of dust ra	aising activitie	s	31	MINS	
	1777-262 - 51-50-12 - 70-50-10-10-10-10-10-10-10-10-10-10-10-10-10		Technic	cal data &	Clearance	indi	cator a	ir sam	pling deta	ails			<u> </u>
Lab Locat	ion: Permané	nt / Site / M	16b)e If Mo	bile Lab - Re	gNo: AE	061	UT 9		Field B	lank (FB) n	ominated:	Yes	(
Microscop	e serial numb	per			5493				elescope nur	nber		50	
Digital The	ermometer / B	arometer / T	mepiece		5816		Working	g flow me	ter serial nur	nber			888
Stage mic	rometer serial	number			5012		NPL tes	t slide se	rial number				53
Limit of qu	antification fo	or following (neasurements	= 0.01	fluit		TA	114 (Counter	5 58	sü l	5893	<u> </u>
Analyst's i	name:	D.h	illipe		19 mile of an A in an an an an an a go i a sa a go i a sa a go	Sar	npler's n	ame:	D-Phil	lips			
Sample	Analyst	Sampler	Pump	Cowl	Start	F	inish	Duratio			liate Flow I	Rate (I/min)	
Number	Initial	Initial	Number	Number	Time		Time	(min)	Start	60min	120min	180min	Fini
4	DP	DP	5313	3	1056	11	56	60) % °C				8
2	DP	DP	5100	4	1059	~i~	59	60					8.
·	<u> </u>		0.00	<u> </u>	1001		<u> </u>					-	D
							<u> </u>						
Sample Number	Refer to p Page No S? ((3 (°C)		flow rate (I/min)	Volum (Litres		ol Fiel 26	ds	of Fibres ろ		Result (f/ml) 602	Re	ported sult /ml)
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licroscope	calibrated	(YES)		+	NDI -	hand ro	solution:	\sim		ticule diame		00	
				ize / 25 mm D	ia / Printed Grid			1290			iter: 39		µm
					sis has been ca		latch No.						mm²
ocedure Do	ocument TPD {	5 and the HSI	E's HSG248.	The above te	sts meet the c	riteria	set out in	the inter	national star	idard ISO /	IEC 17025	au reconical	
			IT, The is a fi	ante of a second					00010				
equal to or	greater than 4	80 litres and 2	200 graticule fie	elds are exami	cation for the al ined, a calculate	ed resu	It below th	ne limit of i	detection may	he everes	es/ml. Whe ed as <0.01	n the sample	e volun
	plumes below 4	480 litres and	graticule field of	counts below 2	200, the lower li	mit of a	iccurate n	neasurem	ent will be hig	her.			
	L FLOW RAT and sampling	E: Determine sites are gre	d by averaging ater than 5%.	the calibrated	Intermediate fl					bient tempe	rature and/o	or pressure b	etweer
🔄) ACTUA			Pé	issed _F	ailed Da	te: 2	22/1	0/19	8		Time:	1330)
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	nt No: ブ1フタフ	21/10			Issue No:		1999-1997 (N. 4) 	ige O	ot 6
STAG	E 4 OF 4	Final assessm	ent post enc	losure / wor	k area dismantling				
4.1	Work area equipment and / or deconstruction process witness		Yes	No	COMMENTS:				
4.2	Is the work area and surroundi ACM waste / debris		(Yeg	No		-***			
4.3	is plant and / or equipment with ACM waste / debris / remnants		Yes	(N)	Nevter	ho	2.4	12.7	
4.4	Is plant and / or equipment imm the area, free of ACM waste / o		(es)	NO					
4.5	Is the transit, waste route and a ACM waste / debris	skip location free of	(Yes)	No					
4.6	Reassurance air testing carried deconstruction process	I out during the	Xes	(No)		and a frank of a frank of a frank			
STAGE	E 4 RESULT		Passed	Failed	Date: 22/10	118		Time:	1435
Asses	REA CANBE / CANAGTB	p. hill	ιµ Λ		Signature: 🕅	hi	Ľs.		
	ractor's representative ac	xnowleagement	[
	iled Certificate of reoccupation w	be issued because	the area has fa	iled stage:	4			4	
	een advised by D. fn	والمرجا المرجاة المسلم المريك مهم وعها موجوه والواحو موجوعها ومرد						• •	، يون والمركز المركز
that the	Certificate of reoccupation can be		as passed all 4	4 stages					
(Comple	ete one of the above and strike th	rough the other option	¹ O				··		
Cont	ractor representative's N	ame: T	Lever	Nay		Date:	22	101	18
	Signa	ture: E	\mathbf{x}			Time:	****	143	
Certifi	icate of reoccupation iss	ue details							
Copies	s of this certificate (with a	appendages whe	ere applical	ble) were is	sued to the follow	ing:			
Сору 1	l issued to: DSM	Damol	ichion	- LTI	2				
Сору 2	2 issued to:								
Other (copies issued to:								
Appen	ded documents:					5010505100101010101010	1-12-11-12-12-12-12-12-12-12-12-12-12-12		
ſechni	ician's Name: D	· Millips				Date:	22	1.01	<u>1 8</u>
	Signature: copy of the Certificate of reoccupation	must always be issued	to the asbestos		sbestos removal contractor				
	emoval contractor.			i the hy	giene facility unless the unit	in to remain		dditional work	K.C.
/124-1	Issue date: 28.02.14					IS TO TERMIN	On site for a		



Asbestos Consultants Europe Ltd

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

Certificate of Reoccupation



		N			037
Report No: 5	74721	2. ^{pp}];	ssue No; Page of 6
UKAS accredited methods	We hereby certi Executive HSG2	ly that site assessment f 48 and the Asbestos Co	or reoccupa insultants E	tion has beer urope Ltd Ter	carried out in accordance with the Health and Safety chical procedure document TPD 6.
Accred		Version estimates and the second second second second second second		the second s	AGE CERTIFICATE OF REOCCUPATION
Customer's name & address	DSM HEAVH	Domolihic AMOS Bir	n ho mingl	ND, A	VDEN HOUSE, ANDEN ROAT B8 IDE
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Site address		2 JDE D			fairlity, SouthanRoxs
Contractor's name & address	AS PEN	client	**************************************		
Contractor's representati vill acknowledge the out	Site supervisor's n ve who is responsib come and findings n	le for confirming their ins	ection of the nician	he enclosure	Telephone No: 0758402-8527 and / or work area is complete and satisfactory and who
Representative's nan		Peverley	13-15-16-16-16-16-16-16-16-16-16-16-16-16-16-	****	
Areas to be assessed vith asbestos has tal		Enclosu	re N	028	
rief description of w	ork undertaken	Removal Controlled	oz h Ci	ngh leu nDihó	H Pilt UNDER Wily ns
าร์การการกระบบระบบรายการการการการการการการการการการการการการก	-	Date(s) work carried or	it by contra	ctor:	9/10/18-22/10/18
e contractor's confirmed closure and/or work area h all specified asbestos	i is completed and s	of the atisfactory	MC	Technicia	an is not to proceed without contractors tion of a satisfactory inspection
ticipated start of the	assessment:	Date: 22/10	118		Time: 08.00
nfirmed start of the a	issessment:	Date: 22/10	118	19910020012000000	Time: 0940

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Certificate of Reoccupation

Restricts agrided with and signed by (res) Mod 13 Is any adbettes to compare in work area and in the contract to be removed dearly defined with thysical barries. (No) 14 Work area only (enclosures not used), dearly defined with thysical barries. (No) 16 Enclosure insta and constructed to encompass the defined wate area with reasonable working gapse. (No) 16. Antices: Plaqbode stubby constructed and at least tim x tim x 2m (neight) at least tim x tim x 2m (neight). (res) Mod 18. Hygiene facility side intext and operating. including an extraction the dearle to ceanines, not content and corporting including an extraction (res) Mod 19. Hygiene facility clean end compartment the deard for ceanines, not content and compartments inspected and found clean and free from stored lens. (res) Mod 11. Transit and wate notes agins appropriately (res) (res) Mod Schoool D upst (PhtSimb (res) 12. Transit and wate notes agins appropriately (res) (res) Mod Schoool D upst (PhtSimb (res) 13. Scho area free from obvious signs of contamination / ACM wate dools agins of content and on a read and free from obvious signs of contamination / ACM wate (res) Mod Schoool D upst (PhtSimb (res) 14. Areas inmeduately adjacent enclosure / work and here fro	definedagiesed inducting method of removal Image: Second Second Use and Second Use Showing method second Second Use Showing methods showing method second Second Use Second Second Use Second	STAG	E 1 OF 4	Preli	minary (check o	f site condition and job completeness
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6 Enclosure inspected via viewing panels and/or CCTV for any remedial action requirements prior to entry Ves No NA 7 Any additional checks (details of additional checks to be recorded in comments section) Yes No NA AGE 1 RESULT Passed Failed Date: 27/10/1% Time: 10.000 sessment carried out by: D. Multiply Signature: Multiply Signature: Multiply	6 Enclosure inspected via viewing panels and/or CCTV for any remedial action requirements prior to entry Ves No 7 Any additional checks (details of additional checks to be recorded in comments section) Ves No AGE 1 RESULT Passed Failed Date: 27/10/158 Time: 10.000 sessment carried out by: D. Multiply Signature: Wultiply	15	Work area only (inspected from barrier edge) for identification of any remedial	Yes	, ™	(N/A)	
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sessment carried out by: D. hullips Signature: Whilly S	sessment carried out by: D. hulling Signature: Whellings	7	Any additional checks (details of additional checks to be recorded	Yes		·	
		AGE	I RESULT	Passe	Fg	ulled	Date: 22/10/18 Time: 10.00
		sessr	nent carried out by: D · h. VI	~			Signature: The LL's C
DITIONAL COMMENTS;		***		1.			ogniture. VP-coop S



Certificate of Reoccupation



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STA	GE 2 OF 4	Visu	al inspe	ection	
2.1	Is there adequate lighting and essential equipment within the enclosure / work area	Fes)_16	-	COMMENTS:
2.2	Is the enclosure internal construction intact	(Yes)	No	N/A	
2.3	Is the enclosure / work area dry	Fres	No		
2.4	Is there plant / equipment within the enclosure / work area	(res)	No		SEE Commants BELOW
2.5	Is there the presence of fine settled dust to any surfaces within the enclosure / work area	Yes	6		
2.6	Has all the ACM specified in the plan of work been removed / encapsulated	Ye	_A10	•	
2.7	Is there ACM remaining within the enclosure / work area not specified for removal in the plan of work	Yes	No		see canments below.
2.8	Is there evidence of inaccessible ACM or reason to suspect its presence within the enclosure / work area	Yes	6		
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	Yea	No		
2.10	Is there loose rubble flooring within the enclosure / work area	Yes	ND		
2.11	Have waste bags, materials, unnecessary equipment been removed from the enclosure / work area	res	MO		
.12	Is there evidence or reason to suspect the general use of sprayed sealants	Yes			
.13	Is air extraction equipment in situ and in operation	(es)	No	ATA	
14	Has each air extractor been fitted with new pre-filters	(res)	No	MA	
15	Stage 2 visual inspection duration:	151	Min	5	
TAGE	2 RESULT	Passe	d) Fa	riled	Date: 22/10/18 Time: 1121
	ICLOSURE INCLUDING AIRLOCK AND BAI BLE ASBESTOS WASTE, DEBRIS AND SU	GLOCK	(WHEN B	AGLOCI	(CONSTRUCTED) OR DESIGNATED WORK AREA IS FREE NOTEREE
	sment carried out by: D .				Signatura Should'
S	Mall Section which	<u>s s</u> ha	n bee	vese n cl	eaned to Allow a CUTPOILUT, This is clean
					cherry Air TEST The bep of The Enclosus
					dy TOWER TO be MOVED TO NEXT AREA
					ECKED ONCE THE all Works Art Complete

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STAGE	3 OF 4			Clearance	air monite	oring							
3.1	Estimated size	of enclosure		16	.m763	3.2	Are all a	reas within t	he enclosure	e / work are	a dry (Y	es No	-
11	Is there eviden the use of spra		to suspect	Yes	No	3.4			pment to the -filters cappe		ed (Y	es) No	
35 ⊢	Number of air s	· · · · · · · · · · · · · · · · · · ·		2		3.6	Method (of dust raisir	ig activities		Bin	shy	
	Number of air r	neasurement	aanaaaaaaaaaa	2		hannan			ing activities	madaassaassa	31	11'ns	
			Technic	ai data 8	Clearan	ce indi	cator a	ir sampl	ing deta	ils			
Lab Loca	tion: Permane	nt / Siller / I	obile If Mo	bile Lab - Re	g No: AE	<u>-66</u>	UTC	<u> </u>	Field BI	ank (FB) no	ominated:	Hes	
	pe serial num				5493		Phase c	ontrast tele	scope num	ber		50	
	ermometer / E		imepiece	<u> </u>	5816			·	r serial num	ber		58	
	crometer seria				5012	eL		t slide seria					33
			measurements	= 0.0	14/14	1 1	TAIL		intaus V		591 9	5893	-
Analyst's		M Wood College	Wips				npler's na		<u>p. hi</u>	destablishes (155er sectors of	iata Elour T	late (I/min)	
Sample Number	Analyst Initial	Sampler Initial	Pump Number	Cowl Number	Start Time		'inìsh Time	Duration (min)	Start	60min	120min	180min	Finis
1	Dr	26	5172	5	1122	11	.22	60	8.0				3
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	$\mathcal{D}\mathcal{C}$	Db	5193	6	1121	<u> </u>	.24	60	8.0				8.
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Sample Number	Locatic Refer to j Page No. SPC SPC	olan (℃	j (mbar) . LOYC		ាំំំំំំំំំំំំំំំំំំំំំំំំំំំំំំំំំំំំំំ	res)	Num of Fiel 200	ds 0 2	Number of Fibres	/ <u>c</u>	alculated Result (f/ml) . OO \	Ri (! ∠ 0	eported esult (/ml) · O (
	e calibrated	ED	100			PL band re		5		ticule diame)0)7.61	μm
/e hereby rocedure I OTE: #) UNCE equal to c or sample ★) ACTU	certify that the . Document TPD RTAINTY OF N or greater than - volumes below	Asbestos Fibr 6 and the HS IEASUREME 480 litres and 480 litres and TE: Determin	/ 0.8 µm pore s es in Air Sampl E's HSG248. NT: The lower I 200 graticule find f graticule field ed by averaging eater than 5%.	ing and Analy The above to imit of quantii elds are exam counts below	rsis has been ests meet the fication for the hined, a calcul 200, the lowe	carried or e critería e above m lated resu er limit of i	set out in lethod is s it below th accurate r	rdance with the interna stated in HSI ne limit of de neasuremer where differ	the Asbestor ational stand G248 as abc tection may it will be high ences in aml	dard ISO / but 0.01 fibro be express her.	ts Europe L IEC 17025 es/ml. Whe ed as <0.01 rature and/o	td Technica n the sampl f/ml. or pressure l	e volume between
TAGE 3			>			Date:		10 18	\$		Time:	1330	>
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LEAFEM	ent carried	out hu	D. Ki	ILAS.		Cinn	ature:	1 A.	<u> / L L L L L L L L L L L L L L L L L L </u>				



	E 4 OF 4	Final assessm	ent nost enc	losure / woi	k area dismantling			
4.1	Work area equipment and / or en	iclosure			COMMENTS:			
4.2	deconstruction process witnesse Is the work area and surrounding			6				
4.3	ACM waste / debris Is plant and / or equipment within		œ	-110				
	ACM waste / debris / remnants		Yes	<u>(</u>	Refer	ho	2.4 2.7	
4.4	Is plant and / or equipment imme the area, free of ACM waste / det	oris / remnants	(Yes)	HO				
4.5	Is the transit, waste route and ski ACM waste / debris	o location free of	(Yes)	_110				
4.6	Reassurance air testing carried or deconstruction process	ut during the	Yes	$(N_{\rm P})$	nga kata kata kata kata kata kata kata ka			
STAG	4 RESULT		Passed	Failed	Date: 22/10	118	Time: 1	500
THE A	REA CAN BE / CANNOT BE	REOCCUPIED			110	1.10	11116.	500
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	actor's representative ackr	nowledgement						
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	een advised by D. M.			incu stage.		*****		· · · · · · · · · · · · · · · · · · ·
hat the	Certificate of reoccupation can be is		as passed all 4	stages		·		
Comple	te one of the above and strike throu	gh the other option	}					
	actor representative's Nam	میرد ور بین است. ا	77	vley		Date:	7-2110/10	/
		<u>.</u>	E			Date.	22/10/18	<u>,</u>
	Signatu	re: 🕑	R)			Time:	1500	
Certifi	cate of reoccupation issue	details						
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Certificate of Reoccupation



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	19721 4	D٢		Issue	No: 1 Page 1 of 6
UKAS accredited methods	We hereby certify t Executive HSG248	hat site assessment for and the Asbestos Con	reoccupation sultants Europ	has been carri be Ltd Technica	ed out in accordance with the Health and Safety al procedure document TPD 6.
Accredit	ED BY UKAS FO	r stages 1, 2, 3	& 4 of th	e 4 Stage	CERTIFICATE OF REOCCUPATION
Customer's name & address	HEAVE LAV	semelihov NDS, BIF K. Jones	mingh	an Be	en house, AVDEN ROAD 8 IDE ephone No: 0121322 2225
Site address		JDE DI		tion (FACILITY, Southan ROAD
Contractor's name & address	AS PER I	ne: T PEN	even	Teir	ephone No: 07584028527
Contractor's representati will acknowledge the outo	ve who is responsible	for confirming their in	spection of the	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	d / or work area is complete and satisfactory and who
Representative's nan	ne:	PENErly	*\$*1}~;~;~;~;~;~{~;~;~;~;~;~;~;~;~;~;~;~;~;~	こうてい しゅうしょう しょうしゅう しゅう しゅう しゅうしゅう しゅうしょう	ntertransmunantum unternation de la contraction de la contraction de la contraction de la contraction de la con
Areas to be assessed with asbestos has tal		Enclosu4			
Brief description of w	/ork undertaken	<u>Remerial</u> <u>Conholle</u> Date(s) work carried	ch Ci	und ihoi	1 Pile UNDER fully 1) 110/18-23/10/18
The contractor's confirme enclosure and/or work are with all specified asbestor	ea is completed and	n of the		Techniciar	n is not to proceed without contractors on of a satisfactory inspection
Anticipated start of th	ne assessment:	Date: 23 1			Time: ひる・CO
Confirmed start of the	e assessment:	Date: 23 11	0 18		Time: 0820
0C/124-1 Issue date: 28.02.1		voduced except in	full withou	t written an	proval of Asbestos Consultants Europe Ltd

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STAGE	1 OF 4	Prelim	inary cl	heck 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:
.2	Diagram or photos showing main work area features agreed with and signed by contractor	(es)	, NO		
.3	Is any asbestos to remain in work area not in the contract to be removed	Yes	No		
.4	Work area only (enclosures not used), clearly defined with physical barriers appropriately placed	Yes	M	NR	
.5	Enclosure intact and constructed to encompass the defined work area with reasonable working space	(Tes)	<u>N</u> 9	,AHA	
.6	Airlocks / Baglocks suitably constructed and at least 1m x 1m x 2m (height)	Fes	Na	M TA	
.7	Air extraction unit(s) fitted to enclosure and operating	(Yes)	HO	-N/A	
.8	Hygiene facility still intact and operating, including air extraction	(Yes)	Na		HY TO STAY ON SILE FOR FURTHER WORKS
.9	Hygiene facility clean end compartment checked for cleanliness, hot / cold water and heating	(es)	No		
.10	Hygiene facility shower area and dirty end compartments inspected and found clean and free from stored items	Ces	. No		
11	Transit and waste route signs appropriately displayed	(Yes)	No		
.12	Transit and waste route areas free from obvious signs of contamination / ACM waste / debris	(Yes)	AU	[GENERAL DUST PRESENT. SKIP OUTSIDE BUILDY
13	Skip area free from obvious signs of contamination / ACM waste / debris	(res)	Ŋæ	NA	SKIP ourside buildly
14	Areas immediately adjacent enclosure / work area free from obvious signs of contamination / ACM waste / debris	(Ver	Mo		
15	Work area only (inspected from barrier edge) for identification of any remedial action requirements prior to entry	Yes	Mo	Ń	
16	Enclosure inspected via viewing panels and/or CCTV for any remedial action requirements prior to entry	(res)	Næ	N/A	
17	Any additional checks (details of additional checks to be recorded in comments section)	Yes	Nø		
FAGE 1	RESULT	Passec	i) Fa	ailed	Date: 23/10/18 Time: 0850
ssessn	nent carried out by: D- Ru	แร้งร			Signature: Rhullos
	L COMMENTS:		~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	นและมีนางกลางสามารถกระทางกระท า นสร้างการระทางสามารถที่ในกลังสามารถระทางกระทางกระทางกระทางการการการการการการการก





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Repo	tNo: J179721/4 ^{D1}	ρ			Issue No: Page 4 of 6
energia de la composición 1	E 2 OF 4		l inspe	ction	
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)	ATO	N/A	
2.3	Is the enclosure / work area dry	(Yes)	No		
2.4	Is there plant / equipment within the enclosure / work area	(Yes)	Nor		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	(Pe) .	110		
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	6		
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		ND		
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)	HO		
2.12	Is there evidence or reason to suspect the general use of sprayed sealants	Yea	No		
2.13	Is air extraction equipment in situ and in operation	(Yes)	AC	MTA	
2.14	Has each air extractor been fitted with new pre-filters	(es)	NO	NIA	
2.15	Stage 2 visual inspection duration:	20	oHi	иJ	
STAG	E 2 RESULT	Pass	ed F	ailed	Date: 23/10/18 Time: 0930
THE E	NCLOSURE INCLUDING AIRLOCK AND B. IBLE ASBESTOS WASTE, DEBRIS AND S		(WHEN	BAGLOCI	K CONSTRUCTED) OR DESIGNATED WORK AREA IS FRED / NOT FREE
	، به با است است است است است است است است و با	~			Signature: Whillys
		Contraction of the second second	Contraction of the Contraction o	*****	at and has been wrapped in Poly apart from
	mark scrippy which	is s had	n hei	in cl	eaned to Allow a cur Point, This is clear
ale i	arcin visible follows	<u>а</u>	SATIS	GACKE	MY ALVITEST The hop of The Enclosure SHAll be
AOM	WED to Allow The S	Scall	oldin	hiw	ev to be Moved to Next arty, scalescien
will	be inspected fo	1102	in C	anpl	chien of All works.
<u>v</u> ~			1		
0C/12 4 -1	Issue date: 28.02.14			antan managan ang ang ang ang ang ang ang ang a	

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	E 3 (OF 4			Clearanc	e air monitori	ing					_	
3.1	Estin	nated size c	of enclosure		16	-m²/(m³)	3.2 Are all a	reas within th	ne enclosure	/ work area of	dry (fe	es) No	
3.3		ere evidence ise of spray	e or reason t ed sealant	o suspect	Yes	(No)		raction equip off with pre-		enclosure d and sealed	Ke	s) No	
3.5	Num	ber of air sa	imples collec	ted	2		3.6 Method (of dust raisin	g activities	CARLES AND ADDRESS TO THE OWNER	wish.	<u> </u>	
3.0	Num	ber of air m	easurements	manimmeran	2		Duration	of dust raisir		and a construction of the local division of	MIN	5	
	- هدامو اهو اميداهم	ومروحه ومروحه ومروحها ومروحه ومروحه	ويوز بيار مرسون والمواسو سر الماليد	Techn	ical data	& Clearance	indicator a	ir sampl	ing detai	ls			และสวนสุขาง
Lab Loc	ation	: Permapen	I / SHE / N	6bile If M	lobile Lab -	Reg No: AE	do UTG		Field Bla	ank (FB) non	ninated:	Yes	<u>(N</u>
Microsc	ope s	erial numb	er	······························		5493	Phase c	ontrast tele	scope numl	ber		508	5
Digital T	í herm	ometer / Ba	arometer / T	imepiece		5816	Working	g flow meter	serial num	ber		58	
Stage m	licrom	ieter serial	number			5012	NPL tes	t slide seria	l number			55	
Limit of	quant	tification fo	r following	measuremen	ts = () · (ONFIMI	1 TAI		nonteri		91	5893	5
Analyst	's nan	ne: D	. Rulli	15			Sampler's n	ame: 🕻	> Phil	NB			
Sampl Numbe		Analyst Initial	Sampler Initial	Pump Number	Cowi Numbe	r Start Time	Finish Time	Duration (min)	Start	Intermedia 60min	ite Flow R 120min	tate (l/min) 180min	Finì
1	-	Pσ	DP	5193	í	0931	1031	60	8.0		/	/	8.
~						~~~ <u>_</u> ~~~			80		/	/	8.
2		DP	DP	5172	2	0933	1033 D	60	20				
Sample Numbe		Locatio Refer to p Page No.	lan len		1 1000	ate Volur (Litre		1	Number of Fibres	R (culated Result (f/ml)	R	eportec esult //ml)
l		SP(2 10	103	5 55.0) 480	1 200	0 3	2	/0.0	01	20	01
2		SPE	0 10	1035	s 8.0	480	1 00	0 2	V /	0			· O
	1	010			- ! -	0.00	/ 20	-	2		001	60	
		510					- 20 - EVI	*****	2			40	
		510						*****	2				
								*****	~				
							Evi	<u> </u>					
Microsco		librated	ES	Line Contraction		NPI	band resolution	> : 5		ticule diamet	er: 1	00	μm
Microsco Membra Ve heret Procedur <u>XOTE:</u> #) UNC	ne filte by cert re Doc	librated ers used: 1 ument TPD	Vitrocellulose Asbestos Fib 6 and the HS	р/0.8 µm por res in Air San SE's HSG248	e size / 25 m npling and A . The abov	NPL m Dia / Printed Gr nalysis has been c re tests meet the antification for the	band resolution id Batch No criteria set out i above method is	: 5 . [2.9.9] prodance with in the intern stated in HS	Gra Gra the Asbesto ational stan G248 as ab	ticule diametr Exposed filt s Consultants dard ISO /	er: 1 er: 39 s Europe L IEC 1702: ss/ml. Whe	00 17.61 .td Technicz 5 en the samp	μm mm²
Microsco Membra Procedur IOTE: #) UNC s equal t for samp ★) AC	ne filte by cert re Doc CERTA o or gi ole volu	librated ers used: 1 ify that the <i>i</i> ument TPD AINTY OF M reater than 4 umes below FLOW RA	Vitrocellulose Asbestos Fib 6 and the HS MEASUREMI 180 litres and 480 litres ar TE: Determin	e / 0.8 μm por res in Air San SE's HSG248 ENT: The low d 200 graticule field graticule field	e size / 25 m npling and A . The abov er limit of qui e fields are e eld counts be ing the calib	NPL m Dia / Printed Gr nalysis has been over tests meet the	band resolution rid Batch No arried out in acco criteria set out i above method is ated result below fimit of accurate	5 1299 ordance with in the intern stated in HS the limit of du measurement	Gra Gra the Asbesto ational stan G248 as ab etection may nt will be hig	ticule diamet Exposed filt s Consultant dard ISO / out 0.01 fibre / be expresse her.	er: 1 er: 31 s Europe L IEC 1702s s/ml. Whe od as <0.0	00 17-61 td Technica 5 en the samp 1 f/ml.	μm mm² i le volu
Microsco Membra Ve heret Procedur IOTE: #) UNC sequal t for samp ★) AC ne calibr	ne filte by cert re Doc CERTA o or gu ole volt TUAL ration a	librated ers used: I ument TPD AINTY OF M reater than 4 umes below FLOW RA and samplin	Vitrocellulose Asbestos Fib 6 and the HS MEASUREMI 180 litres and 480 litres ar TE: Determin	e / 0.8 μm por res in Air San SE's HSG248 ENT: The low d 200 graticule fie d graticule fie hed by averag reater than 5%	e size / 25 m npling and A . The abov er limit of qui e fields are e eld counts be ing the calib	NPL m Dia / Printed Gr nalysis has been o ve tests meet the antification for the xamined, a calcula low 200, the lower rated Intermediate	band resolution rid Batch No arried out in acco criteria set out i above method is ated result below fimit of accurate	5 . [299] ordance with in the intern stated in HS the limit of du measurement r where differ	Gra Gra the Asbesto ational stan G248 as ab etection may nt will be hig rences in arr	ticule diamet Exposed filt s Consultants idard ISO / out 0.01 fibre / be expresse ther. ibient temper	er: 1 er: 31 s Europe L IEC 1702s s/ml. Whe od as <0.0	00 17-61 Ltd Technica 5 en the samp 1 f/mL /or pressure	μm mm² i le volu
Microsco Membra Ve heret Procedur OTE: #) UNC sequal t or samp ★) AC ne calibr	ne filte by cert re Doc CERTA o or gi ble volt TUAL ation a	librated ers used: I ify that the <i>i</i> ument TPD AINTY OF M reater than 4 umes below FLOW RA and samplin SULT	Vitrocellulose Asbestos Fib 6 and the HS MEASUREMI 480 litres and 480 litres ar TE: Determin g sites are g	e / 0.8 μm por res in Air San SE's HSG248 ENT: The low d 200 graticule fie d graticule fie hed by averag reater than 5%	e size / 25 m npling and A . The abov er limit of que e fields are e eld counts be ing the calib 6. Passed	NPL m Dia / Printed Gi nalysis has been o re tests meet the antification for the xamined, a calcula low 200, the lower rated Intermediate Failed C	band resolution id Batch No arried out in acco criteria set out i above method is ated result below limit of accurate flow rates and/or	5 . [299] ordance with in the intern stated in HS the limit of du measurement r where differ	Gra Gra the Asbesto ational stan G248 as ab etection may nt will be hig rences in arr	ticule diamet Exposed filt s Consultants idard ISO / out 0.01 fibre / be expresse ther. ibient temper	er: 1 er: 3 9 s Europe L IEC 17025 es/ml. Whe ed as <0.0 ature and/	00 17-61 Ltd Technica 5 en the samp 1 f/mL /or pressure	μm mm² I
Microsco Membra Procedur 20TE: #)UNC s equal t or samp ★)AC ne calibr STAGE 'HE ENC	ne filte by cert ce Doc CERTA o or gl ole volt TUAL ation a 3 RE CLOSI	librated ers used: I ify that the <i>i</i> ument TPD AINTY OF M reater than 4 umes below FLOW RA and samplin SULT	Vitrocellulose Asbestos Fib 6 and the HS MEASUREMI 480 litres and 480 litres ar TE: Determir g sites are g GNATED W	e / 0.8 μm por res in Air San SE's HSG248 ENT: The low I 200 graticule field graticule fiel and graticule fiel med by average reater than 59	e size / 25 m npling and A . The abov er limit of que e fields are e eld counts be ing the calib 6. Passed	NPL m Dia / Printed Gi nalysis has been over tests meet the antification for the xamined, a calculation tow 200, the lower rated Intermediate	band resolution id Batch No arried out in acco criteria set out i above method is ated result below limit of accurate flow rates and/o Date: 23	5 . [299] ordance with in the intern stated in HS the limit of du measurement r where differ	Gra Gra the Asbesto ational stan G248 as ab etection may nt will be hig rences in arr	ticule diamet Exposed filt s Consultants idard ISO / out 0.01 fibre / be expresse ther. ibient temper	er: 1 er: 3 9 s Europe L IEC 17025 es/ml. Whe ed as <0.0 ature and/	00 17-61 Ltd Technica 5 en the samp 1 f/mL /or pressure	μm mm² i le volu



03759

Report No: 517972	.1/4 ⁰⁸			Issue No: 1	Page 6 of 6
STAGE 4 OF 4	Final assessm	ent post enc	losure / wor	k area dismantling	
4.1 Work area equipment and / or deconstruction process witnes	enclosure sed by the technician	Yes	AHO	COMMENTS:	
4.2 Is the work area and surround ACM waste / debris	-	Fes	,410		
4.3 Is plant and / or equipment wit ACM waste / debris / remnant:	5	(es)	, 110		
4.4 Is plant and / or equipment im the area, free of ACM waste /	lebris / remnants	Yes	(No)	Rester to 2.	4/2.7
4.5 Is the transit, waste route and ACM waste / debris		(Yes)	AIC		
4.6 Reassurance air testing carne deconstruction process	f out during the	Yes	Ň		
STAGE 4 RESULT		Passed	Failed	Date: 23/10/18	Time: 1400
THE AREA CAN BE / CANNOTE	E REOCCUPIED	, ns		Signature: Bhull	, MJ
Contractor's representative a			*****		
Lontractor's representative a					ـــــــــــــــــــــــــــــــــــــ
that a failed Certificate of reoccupation v	il be issued because	the area has fa	ailed stage:	12	-34
	LILLES				
that the Certificate of reoccupation can b		has passed all	4 stages		
(Complete one of the above and strike th	rough the other optio	n)			
Contractor representative's N		forier	Key	Date:	23/10/18
	Ŕ	X	J		
Sign	ature: X		2,232,232,242,242,242,242,242,242,242,24	Time:	1400
Certificate of reoccupation is:	ue details				
Copies of this certificate (with	appendages wh	ere applica	ble) were i	ssued to the following:	
Copy 1 issued to: DSM	DEmoli	. Hon	LTD		
Copy 2 issued to:					11112-2110-1-1-13
Other copies issued to:	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	ainaintintintintintintintintintintintintinti	47494274294294294294294294294294294294294294294		
				an war were en an	
งกะเหน่ากับว่าสารกรักและคระสา สารการสารการสารการสารการสารสารสารสารสารสารสารสารสารสารสารสารสา	-0-0,45,45,45,45,45,45,45,45,45,45,45,45,45,	Landan tanàn kanji di kaomini amin' kaomini dia kaomini dia kaomini dia kaomini dia kaomini dia kaomini dia kao	ananyang tang tang tang tang tang tang tang t		\$1154135111821024951549545454500000000000000000000000000
Appended documents:					
Technician's Name:	S. Millig	, j		Date:	23/10/18
	Al				N. 50
Signature:	philp	A to the schools	: ! The	asbestos removal contractor requires a ser	1400 parate clearance certificate of inspection
Note: A copy of the Certificate of reoccupat removal contractor.	on must diways oe issue	NO IN THE ASDESIOS	the	Aspesios removal contractor regimes a act hygiene facility unless the unit is to remain (on site for additional works.
/124-1 Issue date: 28.02.14					

web: www. aceconsultants.co.uk



Asbestos Consultants Europe Ltd

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

Certificate of Reoccupation



Report No: 5179	1721 /5 DF)			Issue N	10: 1	Page	1 of 6
JKAS accredited nethods	We hereby certify tha Executive HSG248 a	it site assessm	ent for reoco os Consultan	cupation ha	is been carried Ltd Technical (out in accord	ance with the H ument TPD 6.	ealth and Safety
Accredit	ED BY UKAS FOR	STAGES 1	2,3&4	OF THE	4 STAGE C	ERTIFICATE	OF REOCO	UPATION
Customer's name & address	DSM DEV HEAVILAN Contact name: 1	DS. B	1 cm m	ainan	1 BB	IDE		ROAD 22225 Lam ROAD
Site address	FORMER BANDUM	JDE	D157 6 20	eibuk QU	nich fr	rcility	Sout	han ROAD
Contractor's name & address	AS PEN Site supervisor's nar	ne TR	EVENIE		Teler	phone No; 🕻	07584	028527
Contractor's representat will acknowledge the out	ive who is responsible	for confirming	their inspect	tion of the	enclosure and	or work area	is complete an	d satisfactory and who
Representative's na	me: T	PENEN	1. 	uniniiniiniiniiniiniiniiniinii	#11#10#10#10#10#10#10#10#10#10#10#10#10#	<u>しっしっこっていていていていって</u> いていっていってい	€\$	₩Circle=}#42#42#52#52#52#52#72#72#72#72#72#72#72#72#72#72#72#72#72
Areas to be assesse with asbestos has ta		Encl	oscire.					
Brief description of	work undertaken	Remain	ellect	Car	Dihons		E UNDE - 23/10	
The contractor's confirm enclosure and/or work a with all specified asbest	area is completed and	Date(s) work	res	Dy confiac	Technician	is not to pr		ut contractors
Anticipated start of	the assessment:	Date: Z	3/10/	18			0800	
Confirmed start of t		Date: 27	3/10/	18	2445674561520526745	Time: C	;820	
This documenta	2.14 tion shall not be re	produced ex	cept in fu	ll, withou	t written ap	proval of As	bestos Cons	ultants Europe Ltd



03760

Report	No: 5179721/52	96			Issue No: 1 Page 2 of 6
			inany ch	ock of s	site condition and job completeness
STAGE	1 OF 4	Preum	mary cm	CCN UI 3	
1.1	Plan of work checked and entire work area defined/agreed including method of removal when enclosure not used	Yes			COMMENTS.
1.2	Diagram or photos showing main work area features agreed with and signed by contractor	(Yes)	Ho		
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	Ŵ	
1.5	Enclosure intact and constructed to encompass the defined work area with reasonable working space	(P	, Morr.	AHA	
1.6	Airlocks / Baglocks suitably constructed and at least 1m x 1m x 2m (height)	Yes	_No	AHA	
1.7	Air extraction unit(s) fitted to enclosure and operating	69		N/A	
1.8	Hygiene facility still intact and operating, including air extraction	(Yes)	No		HH TO STAY ON SILE FOR FURTHER WORKS
1.9	Hygiene facility clean end compartment checked for cleanliness, hot / cold water and heating	(Yes)	M		
1.10	Hygiene facility shower area and dirty end compartments inspected and found clean and free from stored items	(Peg)	10		
1.11	Transit and waste route signs appropriately displayed	(Ye)	No		
1.12	Transit and waste route areas free from obvious signs of contamination / ACM waste / debris	(Yes)	NO		GENERAL DUST PRESENT SKIP OURSIDE BUILDY
1.13	Skip area free from obvious signs of contamination / ACM waste / debris	(es)	No	NHA	Skip outside buildy
1.14	Areas immediately adjacent enclosure / work area free from obvious signs of contamination / ACM waste / debris	(es)	Mo		
1.15	Work area only (inspected from barrier edge) for identification of any remedial action requirements prior to entry	Yes	NO	NA	
1.16	Enclosure inspected via viewing panels and/or CCTV for any remedial action requirements prior to entry	(res)	, x tc	N/A	
1.17	Any additional checks (details of additional checks to be recorded in comments section)	Hes	No		
		Passe	2 6	atled	Date: 23/10/18 Time: 0850
STAGE	1 RESULT	L 4722	su F	-uneu	6 a
Assess	sment carried out by: D. h	illips		9.109.249345345345347349349349	Signature: Thuis
	VAL COMMENTS:				
Ave	۵٬۵۶٬۹۰۰				
1912201211					
1000					
QC/124-1	Issue date: 28.02.14				

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 web: www. aceconsultants.co.uk







Repo	nNo: 5179721/5	-D8			Issue No: 1 Page 4 of 6
STAG	e 2 of 4		l inspe	ction	
2.1	Is there adequate lighting and essential equipment within the enclosure / work area	(res)	No		COMMENTS:
2.2	Is the enclosure internal construction intact	Fes	No	NA	
2.3	Is the enclosure / work area dry	res) ,HO		
2.4	Is there plant / equipment within the enclosure / work area	(es)	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	<u>(</u>	110		
2.7	Is there ACM remaining within the enclosure / work area not specified for removal in the plan of work	(Yes)	Nor		SEE comments below
2.8	Is there evidence of inaccessible ACM or reason to suspect its presence within the enclosure / work area	Yes	Ø		
2.9	Are there surfaces within the enclosure <i>i</i> work area where it is almost impossible to remove all the ACM, sufficient for a visual inspection to pass as normal	Yes	ND		
2.10	Is there loose rubble flooring within the enclosure / work area	Yes	Œ		
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	Ŵ		
2.13	Is air extraction equipment in situ and in operation	(e)	No	MA	
2.14	Has each air extractor been fitted with new pre-filters	(Yeg	No	N/A	
2.15	Stage 2 visual inspection duration:	12	5 Mi	~5	
STAG	E 2 RESULT	Pass	6		Date: 23/10/18 Time: 0955
Тнее	NCLOSURE INCLUDING AIRLOCK AND B NBLE ASBESTOS WASTE, DEBRIS AND S		(WHEN	BAGLOC	K CONSTRUCTED) OR DESIGNATED WORK AREA IS FREE / NOT FREE
ģ	ssment carried out by: D · R				Signature: Philips
					ent and has been wrapped in poly Alak from
	wall section which	har	beau	cles	med TO Allow a Cut Point, This is chean
a Si	Laccina disidia follo	Ning	<u>A</u>	SATIS	FACTORY AIN TEST THE TOPON THE ENCLOSIONE SHAR
ho	RemalED TO Allow T	the '	Scat	roleti	TOWER to be MOVED to the NEXT AVEN,
<u> </u>	attelder will be 1	nsoe	ched	foll	only completion of All works.
QC/124-1	issue date: 28.02.14				



STAGE	3 OF 4			Clearance	e air monitor	ing						
3.1	Estimated size c	of enclosure		16	/m²/(m³)	3.2 Are all ar	reas within th	ne enclosure	/ work area dr	y (Yes)	, NO	
	Is there evidence the use of spray		suspect	Yes	(1)		A Is air extraction equipment to the switched off with pre-filters capped			(Yes)	NO	H
25	Number of air sa	amples collect	ed	2		36	of dust raising			ncish		
3.5	Number of air m	easurements	and a second	2		Duration	of dust raisir		an succession and the second	<u>s Miv</u>	17	
and the state of the			Techn	ical data	& Clearance	e indicator a	ir sampli	ing detai	ls			
Lab Loca	tion: Permaner	it (obile If M	lobile Lab - F	Reg No: AE	06 UTC	1	Field Bla	ank (FB) nomi	nated:	Yes	<u>(Notestanders</u>
Microsco	pe serial numb	er			5493	Phase c	ontrast tele	scope numb	ber		50	85
Digital Th	ermometer / Ba	arometer / Ti	mepiece		5816	Working	g flow meter	serial num	ber		58	
Stage mic	crometer serial	number			5012		t slide seria				533	53_
Limit of q	uantification fo	or following r	neasuremen	nts = 🕐 · 🤇	SIFMI	1 TAILY				5893		
Analyst's		. Rulli				Sampler's na	ame: 🔨	>·hul	lips			
Sample Number		Sampler Initial	Pump Number	Cowl Numbe	r Start Time	Finish Time	Duration (min)	Start	Intermediate 60min 1		e (l/min) 80min	Fini
1	DP	DP	5313	> 3	0956	1056	60	8.0		<u> </u>		8.
2	DP	DP	5100	4	0958	1058	60	8.0				8.
					{	Dr		1				
	Page No.	3 14	;) (mba	r) flow ra (l/mir	ate (Litr 1)	me c es) Fie	nber of Ids	Number of Fibres	R((1	culated esult /ml)	R (eported esult i/ml)
	Keleriu	plan (°C → 1 (→ 1 (; (mba	s flow ra r) (1/mir 3 B·C	ate (Litr 1) C 480	me c	of Alds	of	R	esult /ml) C Z	R	esult f/ml) · <i>O</i> \
	SP(plan ren .3.	.) (mba (03 103:	s flow ra r) (1/mir 3 B·C	ste (Litr)) (480)) (180)	$\frac{me}{es}$		of Fibres	Ri (f () . ()	ssult /ml) C Z. C 1	R (∠0	esult f/ml) · <i>O</i> \
Number [2_ Microscop Membran	pe calibrated refer to possible to the second seco	plan 3 1 1 1 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1) (mba (ω3)Ο3) νσ νσ	s flow ra (l/mir 5 8 · C 5 8 · C	nte (Litr)) 4/80) 4/80) 4/80 NF nm Dia / Printed (me es) C Fie 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	of plds >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	of Fibres 2	A C C C C C C C C C C C C C C C C C C C	ssult /ml) /C Z. /C \ /C \ /C /r: /C	R (20 	esult //ml) - Ο \ - Ο \
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Certificate of Reoccupation

03760

Report No: 5179721 500			Issue No: 1 Page 6 of 6
STAGE 4 OF 4 Final assessm	ent post encl	osure / wor	k area dismantling
4.1 Work area equipment and / or enclosure deconstruction process witnessed by the technician	Yes	, HO	COMMENTS:
4.2 Is the work area and surrounding areas free of ACM waste / debris	Ces		
4.3 Is plant and / or equipment within the area free of ACM waste / debris / remnants	(Yes)	110	
4.4 Is plant and / or equipment immediately adjacent to the area, free of ACM waste / debris / remnants	Yes	(No)	Refte to 2.4/2.7
4.5 Is the transit, waste route and skip location free of ACM waste / debris	(res)	No	
4.6 Reassurance air testing carried out during the deconstruction process	Yes	60	
STAGE 4 RESULT	Passed	Failed	Date: 23 10 18 Time: 14 20
THEAREA CAN BE / CANNOT BE REOCCUPIED		a <u>an</u> a gan, gan	
Assessment carried out by: D. full	<u>ps</u>		Signature: Rhullys
Contractor's representative acknowledgemer	nt		
have been advised by			
hat a failed Certificate of reoccupation will be issued because	the area has fa	ailed stage:	
have been advised by D - Kullips			
at 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 optic	on)	ىل 10- 10- 10- 10- 10- 10- 10- 10- 10- 10-	221 1111
Contractor representative's Name:	PERENC	24	Date: 23/10/18
Signature:	S	-	Time: 1420
Certificate of reoccupation issue details			
Copies of this certificate (with appendages wi	here applica	ble) were i	ssued to the following:
Copy 1 issued to: DSM DEMOLI	tion 1	TD	
Copy 2 issued to:	2.42.inj.clm2.nz46.inj.clm2.n2.h2.inj	Şıktantıştaşınğınşinğistantışta	ĸĸĊŧġĸŧĸŧĸŧĸĬĸĊĸġĸġĸĸŧĸŧĸĬĸĬĸſĸŧĸĸŧĸĸĸĸġĊġĸŧĸħĸċĬĸŷĸġĸĸŧĸĸĸŎŗŎĸġĸĸĸĸĸŊĸĸŧġŊĸijĸĊĸſĸIJĸIJĸĊŀĊĸĿĸIJĸĸĸĊĸĊĸ
Other copies issued to:			
Appended documents:	447582)0219747456745674567474549549549549549549549549549549549549549		**************************************
Technician's Name: D - Ahillij	15		Date: 23/10/18
Signature:	-ks		Time: 1420
Note: A copy of the Certificate of reoccupation must always be issued	red to the asbesto	s Th the	e asbestos removal contractor requires a separate clearance certificate of inspection for hygiene facility unless the unit is to remain on site for additional works.
removal contractor. C/124-1 Issue date: 28.02.14			
This documentation shall not be reproduc	ed except ir	n full, with	out written approval of Asbestos Consultants Europe Ltd

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



والمعارية المحمد والمحمد والم

Asbestos Consultants Europe Ltd

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

Certificate of Reoccupation



0385

Report No: 517	197216	of		lssu	eNo: Page of 6
UKAS accredited methods	We hereby certify Executive HSG24	that site assessment 3 and the Asbestos (for reoccupatic Consultants Eur	on has been cai ope Ltd Techni	rried out in accordance with the Health and Safety cal procedure document TPD 6.
Accredi	TED BY UKAS F	DR STAGES 1, 2	, 3 & 4 of t	HE 4 S TAGE	E CERTIFICATE OF REOCCUPATION
Customer's name & address	HEAVE).	molition mos, Bi K Jones	rmingiv	<u>m 63</u>	HOUSE, AVDEN ROAD B IDE elephone No: 0121322 2225
Site address	5 a .	JDE D	15terbe		FACILITY, Southan Roa
Contractor's name & address	AS PCN	client me: TPere			
Contractor's representat will acknowledge the out	ive who is responsibl	e for confirming their	inspection of th	HIS CONTRACTOR CONTRACTOR CONTRACTOR	lephone No: OTS8402-852-7 ad / or work area is complete and satisfactory and who
Representative's nar	ne: T	PENERA	Δ		๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛
Areas to be assessed with asbestos has ta		Enclos	UVE N	10 24	
Brief description of w	vork undertaken	Conheiled	Can	hous	
The contractor's confirme enclosure and/or work are with all specified asbestor	ea is completed and s	n of the	o out by contra	Techniciar	10/18 - 23/10/18 n is not to proceed without contractors on of a satisfactory inspection
nticipated start of th	ie assessment:	Date: 23/10	18		<u>Time: රහරා රි</u>
Confirmed start of the	assessment:	Date: 73/11	0/18		Time: 0820
/124-1 Issue date: 28.02.14			- F . (1) (C.S.J. ¹⁹⁷⁶		proval of Asbestos Consultants Europe Ltd



STAGE	1 OF 4	Prelin	ninary cl	heck 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	(fes)	Nar	,	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	(Ng)		
1.4	Work area only (enclosures not used), clearly defined with physical barriers appropriately placed	Yes	Ato	(N/A)	
1.5	Enclosure intact and constructed to encompass the defined work area with reasonable working space	(Feg)	No	,HTA	
1.6	Airlocks / Baglocks suitably constructed and at least 1m x 1m x 2m (height)	(es)	NO	NA	
1.7	Air extraction unit(s) fitted to enclosure and operating	(es)	No	NIA	
1.8	Hygiene facility still intact and operating, including air extraction	(jes)	жб		HE TO STAY ON SILE. For forther works
1.9	Hygiene facility clean end compartment checked for cleanliness, hot / cold water and heating	(Yes)	M 0		
.10	Hygiene facility shower area and dirty end compartments inspected and found clean and free from stored items	(Yes)	No		
.11	Transit and waste route signs appropriately displayed	(res)			
.12	Transit and waste route areas free from obvious signs of contamination / ACM waste / debris	(res)	_HO		GENERAL DUST PRESERT
.13	Skip area free from obvious signs of contamination / ACM waste / debris	Es		N/A	skip ourside Buildy
14	Areas immediately adjacent enclosure / work area free from obvious signs of contamination / ACM waste / debris	(Yes)	. 10		
.15	Work area only (inspected from barrier edge) for identification of any remedial action requirements prior to entry	Yes	_Ner	Ŵ	
16	Enclosure inspected via viewing panels and/or CCTV for any remedial action requirements prior to entry	(es)	No	AHA	
17	Any additional checks (details of additional checks to be recorded in comments section)	Yes	6		
TAGE 1	1 RESULT	Passe	D Ea	illed	Date: 23 10 18 Time: 0850
****************	ment carried out by: D. Mil	lins	15472-72-772-772-772-772-772-772-772-772-7	1575-575-57-57-57-57-57-57-57-57-57-57-57	Signature: Photos
w					



Certificate of Reoccupation





Repor	1No; 5179721/6	Df			Issue No:	Pa	ige 4 of 6
	2 OF 4		l inspec	ction			
2.1	Is there adequate lighting and essential equipment within the enclosure / work area	(res)	Mo		COMMENTS:	المحافظ والمحافظ والم	
2.2	Is the enclosure internal construction intact	(Yes)	Na	MA			
2.3	Is the enclosure / work area dry	(es)	No				
2.4	Is there plant / equipment within the enclosure / work area	(res)	No		SEE Commen	VS BEKN	0
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	(res)	, MC				
2.7	Is there ACM remaining within the enclosure / work area not specified for removal in the plan of work	(res)	, M		SEE comman	is belo	تىر
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	Xes	Œ			الرواع والمستعمل معارضها المراجع المراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع	
2.11	Have waste bags, materials, unnecessary equipment been removed from the enclosure / work area	(res)	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	(es)	Nor	NIA			
2.14	Has each air extractor been fitted with new pre-fitters	(es)	No.	NTA		۲	
2.15	Stage 2 visual inspection duration:		SMi	ns			
STAG	E 2 RESULT	Pass	ed F	ailed	Date: 23 10 18		Time: 10 2.0
THE EI OF VIS	NCLOSURE INCLUDING AIRLOCK AND B IBLE ASBESTOS WASTE, DEBRIS AND S		(WHEN DUST	BAGLOC	K CONSTRUCTED) OR DESIGNAT	ed work area is	S FREE / NOT FREE
	essment carried out by: \mathcal{D} -			7	Signature: Whill	Ŵs	
Addit	IONAL COMMENTS: THE PIPE I	5 57	ill f	Prese	NT AND WAS BEEN	wrapped i	n Poly APAUT From
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ne	Removed to Allow T	the s	scade	orchy	TOWER TO be N	loved het	he new avea,
కిల	esterding will be me	pecke	Dh	Mas	y completion of	Allwork	<u>S</u>
	-						
QC/124-1	Issue date: 28.02.14						



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TAGE 3 C				Clearanc	e air i	monito	ring							a 01	
	nated size of	enclosure		16		~ (m)	3.2	Are all are	as within	the enclo	osure /	work are	a dry 🕻	Yes	5
ls the	ere evidence of sprayed	or reason to	suspect	Yper	(ŃO)	3.4	Is air extra switched o	off with pre	ipment to e-filters c	o the er apped	and sea	led	Yes M	- MTA
Num	ber of air san		ed	2			3.6	Method of				1	Brus		·····
5 F 1	ber of air mea		required	7				Duration of					3M		
			Techn	ical data	& CI	earand	e ind	licator ai	r samp	ling d	etails	5			(10)
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Sample	Analyst	Sampler	Pump	Cow	1992 (Maria) - 19	Start		Finish	Duratio (min)			60mir	1	Ward States	Collection and the special states of
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Procedure D	certify that the	Asbestos F 3 6 and the	ibres in Air S HSE's HSG2	ampling and 48. The a	d Analy bove te	sis has be sts meet	en car the cr	ried out in ac iteria set ou	cordance t in the in	with the ternatio					
is equal to o	ir greater thar	480 litres a	nd 200 gratic	cule lielus al	e exan	200 the l	nwar li	mit of accura	te measul	ement w	/ill be h	igher.			sample volum
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STAGE 3				Passe		Failed		ate: 23		98			Tin	ne: 121	+7
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1 01-1		Final assessm	ent post encl	osure / wor	k area dismantling			
4.1	E 4 OF 4 Work area equipment a	nd / or enclosure		N	COMMENTS:			
4.1	deconstruction process	witnessed by the technician	\sim					
4.2	Is the work area and su ACM waste / debris	rrounding areas free of	(Yes)	AIC				
4.3		ent within the area free of mnants	res	NO			•	
4.4	Is plant and / or equipm	ent immediately adjacent to /aste / debris / remnants	Yes	No	Rester i	02.4	12.7	·
4.5	Is the transit, waste rou ACM waste / debris	te and skip location free of	(es)	Mar	a a a a a a a a a a a a a a a a a a a			
4.6	Reassurance air testing deconstruction process		Yes	NO				
TAG	E 4 RESULT		Passed	Failed	Date: 23/10/19	3	Time: 1440)
		NOT BE REOCCUPIED						
		- 0	1 0.0		Signature: The	un.		
sse	ssment carried out	by: U. Mil	IMM		Signature.			and a second
Cont	ractor's representa	tive acknowledgeme	nt					
	been advised by							
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hat the	e Certificate of reoccupation	on can be issued as the area	has passed al	4 stages		- A 1.0" 100 1.0" 100 -000		
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Report No: 7	79997 /04 AS Issue No: 01 Page 01 of 04
Customer's name & address	DSM DEMOKITION LIMITED, ARDEN HOUSE, ARDEN RUAD, BURMWELTIAM, B& IDE
Site address	FORMER JDE BAUBURY, SOUTHAN ROAD, BAUBURY, OXFORDSMIRE, DXIG 2QU

	TECHNIC	AL DATA COUNTER	5-279+280	
Lab Location: Permanent / Site / Mobile If Mo	b Lab - Reg No:	AEGENTB	Field Blank (FB) nominated:	YES / NO
Microscope serial number	286	Phase contrast telescope	number	287
Digital Thermometer / Barometer / Timepiece number	SIIS	Working flow meter serial	number	5756
Stage micrometer serial number	34	NPL test slide serial numb	er	391

PERSONAL AT MONITORING CARRIED OUT ON MARK WATTS OF DSM DURING REMOVAL OF PRE WRAPPED (INSMAN) PIPE WORT WITTIN WORK AREA Nº2.
OF DOM DURING REMOVAL OF PRE WRAPPED (INSWARD PIPE WORK WITTIN WORK AREA Nº2.
PIPE WORK WITTIN WORK AREA Nº2.
PERSONAL AR MONITORING CAPPIED DUT ON
TERM PENALEY WITH FUISHED GODS LAST
BLADWER BUILDING DURING DE- SHEEDING OF
FUCLOSHEF.
(Opinions & interpretations expressed herein are outside the scope of UKAS accreditation)
Technician authorising testing documentation : <u>A BOND</u> Issue Date: <u>25/10/18</u>
Technician's Signature:
C/095-1 Issue date: 28.02.14
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Head Office Tel: 01375 366777

web: www. aceconsultants.co.uk



Layout Diagram

09361

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Test Certificate

13513

Report No: J179997/64 AS Issue No: 61 Page 3 of 4 Technicians Name(s): A. Bowd Test Date: 25/10/18 Test Location: Format TDC Type of Test: Background (B), Leak (L), Clearance (C), Reassurance (R), Personal (P), Work Area Sample Number Analyst Initial Sampler Pump Number Cowl Number Test Start Time Finish Time Duration (min) Intermediate Flow Rate (I/m 120 min 180 min)	
Test Location: Formation Formation Type of Test: Background (B), Leak (L), Clearance (C), Reassurance (R), Personal (P), Work Area Sample Number Analyst Initial Sampler Number Pump Number Cowl Number Test Type Start Finish Time Duration (min) Intermediate Flow Rate (I/m)	
Type of Test: Background (B), Leak (L), Clearance (C), Reassurance (R), Personal (P), Work Area Sample Number Analyst Initial Sampler Number Pump Number Cowl Number Test Type Start Time Finish Time Duration (min) Intermediate Flow Rate (l/m)	()((A))
Sample NumberAnalyst InitialSampler NumberPump NumberCowl NumberTest TypeStart TimeFinish TimeDuration (min)Intermediate Flow Rate (I/mSample NumberAnalyst InitialSampler NumberPump NumberCowl TypeTest TypeStart TimeFinish TimeDuration (min)Intermediate Flow Rate (I/m	
Number Initial Initial Number Number Type Time Time (min) Start 60 min 120 min 180 min	
	1.1.
01 AB AB 7759 DI P 03.1 08.52 40 2.0	
	2.0
02 AB AB 7905 02 P 13.02 13.42 40 2.0	
Comple Location Tomp Droceuro Artotati Volume	# Reported
Sample Number Refer to plan Page No. D Temp (°C) Pressure (mbar) flow rate (l/min) Volume (Litres) of of Result Sample Page No. D (°C) (mbar) flow rate (l/min) (Litres) of of flow rate (f/ml)	Result (f/ml)
01 5801 10 1014 2.0 80 100 3 0.018	0.12
02 5802 10 1014 2.0 80 / 100 21/2 / 0.012 (0.12
03 - FIED BLANT NOT READ	
END - CND	•
	4
Limit of guantification for above	and the second
air sampling measurements = 0.12.7/m Total Number of samples this page: -2	1. S.
Microscope calibrated YES NO NPL band resolution: S Graticule diameter: / O D	μm
Membrane filters used: Nitrocellulose / 0.8 μm pore size / 25 mm Dia / Printed Grid Batch No. (309 Exposed filter: 347-6	1 mm ²
RESULTS OF ABOVE AIR MONITORING TESTS HAVE: PASSED / FAIL	ED
We hereby certify that the Asbestos Fibres in Air Sampling and Analysis has been carried out in accordance with the Asbestos Consultants Europe Ltd Tech 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	nnical
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 still 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 press the calibration and sampling sites are greater than 5%.	sule between
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Test Report 093	23
Report No: J179997/04 AB Issue No: D(Page 4 of 4	
Technicians Name(s): <u>A</u> . BOND Test Date: <u>25/10/18</u>	
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)	nts
ACE ON SITE.	
4PON ANACYSIS BOTT PERSONAL AR SAMPLES	
WERE FOUND TO BE SATISFACTORY + BELOW THE	
L'MIT OF QUANTIFICATION (0.12 fh).	
(Opinions & interpretations expressed herein are outside the scope of our UKAS accreditation)
QC/098-1 Issue Date: 28.02.14 This documentation shall not be reproduced except in full, without written approval of Asbestos Consultants Europe L	td



Asbestos Consultants Europe Ltd

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

Certificate of Reoccupation



Report No: 🕠 Ì	79997/0	os AB Issue No: DL Page DL 0106							
UKAS accredited methods		that site assessment for reoccupation has been carried out in accordance with the Health and Safety 8 and the Asbestos Consultants Europe Ltd Technical procedure document TPD 6.							
Accredi	TED BY UKAS FO	or stages 1, 2, 3 & 4 of the 4 Stage Certificate of Reoccupation							
Customer's name & address	ROAD. B	DIENNEMAN, BSIDE T. PEVERCEN Telephone No: 07584028527							
Site address	Former	JDE BANBURN, SOUTHAN ROAD, M, DXFORDSHIRE, DX162QU							
Contractor's name & address		AS CUSTOME							
will acknowledge the ou	tive who is responsibl itcome and findings re	ame: SEE ASONE Telephone No: SEE ABONE le for confirming their inspection of the enclosure and / or work area is complete and satisfactory and who eported by the aCe technician							
Representative's na Areas to be assesse with asbestos has ta	ed where work	M PEVERIEM ENCLOSURE 25 WITTON FINISTICD HOODS EAST BUILDING							
Brief description of	work undertaken	REMOVAL OF WSMIATION TO POPEWORK TO CREATE CUTTING POWT.							
The contractor's confirm enclosure and/or work a with all specified asbesto	rea is completed and	Z NE ZELECTION AND STOLED WRITED CONTACTORS &							
Anticipated start of t	he assessment:	Date: 25/10/18 Time: 8.00 AM							
Confirmed start of th	14	Date: 25/10/18 Time: 7.40 AM							
		produced except in full, without written approval of Asbestos Consultants Europe Ltd							



0379**3**

STAGE	1 OF 4	Prelin	ninary c	heck of	site condition and job complet	eness
1.1	Plan of work checked and entire work area defined/agreed including method of remova when enclosure not used	Yes	No		COMMENTS:	*******
1.2	Diagram or photos showing main work area features agreed with and signed by contractor	Yes	Alo	-		
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	- 40	NTA N		
.6	Airlocks / Baglocks suitably constructed and at least 1m x 1m x 2m (height)	(Yes)	_No-	HA		
.7	Air extraction unit(s) fitted to enclosure and operating	(Yes)	Alo	ATA		
.8	Hygiene facility still intact and operating, including air extraction	(Yes)	NO _			
.9	Hygiene facility clean end compartment checked for cleanliness, hot / cold water and heating	Ye	. #10			
.10	Hygiene facility shower area and dirty end compartments inspected and found clean and free from stored items	Yes	Ho			
11	Transit and waste route signs appropriately displayed	Yes	AU			
12	Transit and waste route areas free from obvious signs of contamination / ACM waste / debris	Yes	Ato			
13	Skip area free from obvious signs of contamination / ACM waste / debris	Ves	Na	DH/A-		
14	Areas immediately adjacent enclosure / work area free from obvious signs of contamination / ACM waste / debris	Yes	AU			
15	Work area only (inspected from barrier edge) for identification of any remedial action requirements prior to entry	Yes	كالمد	(N/A)		
6	Enclosure inspected via viewing panels and/or CCTV for any remedial action requirements prior to entry	Yes	No	NTA		
7	Any additional checks (details of additional checks to be recorded in comments section)	Yes	No			
AGE 1	RESULT	Passed	i) _Fr	alled	Date: 25/10/18	Time: 08 - 22
sessn	nent carried out by: $A \cdot B_{\delta}$	- n	2		Signature:	\sim
	L COMMENTS: AST AB		******************	нч	GIEVE FACILIT	4 TO 5544
<u>د ہ</u>	TTH FOR FURTH	ول ا	wel	ES.	1.12 - GENCES	DUST PLESE
nt		N6R	XFS	<u> </u>	3- SEIS LOCA	AED OUTSIDE
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STAG	GE 2 OF 4	Visu	al inspe	ection	
2.1	Is there adequate lighting and essential equipment within the enclosure / work area	Yes) HO		COMMENTS:
2.2	Is the enclosure internal construction intact	Yes		AHA	
2.3	is the enclosure / work area dry	(Ye)	No		
2.4	Is there plant / equipment within the enclosure / work area	<u>Yes</u>	No	\rangle	<u></u>
2.5	Is there the presence of fine settled dust to any surfaces within the enclosure / work area	,¥ es	No	-	
.6	Has all the ACM specified in the plan of work been removed / encapsulated	(Yes)	Na		
.7	Is there ACM remaining within the enclosure / work area not specified for removal in the plan of work	Yes	No		
.8	Is there evidence of inaccessible ACM or reason to suspect its presence within the enclosure / work area	Xes	No		
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	Xes	No		
10	Is there loose rubble flooring within the enclosure / work area	Yes	No		
.11	Have waste bags, materials, unnecessary equipment been removed from the enclosure / work area	Yes	AO		
.12	Is there evidence or reason to suspect the general use of sprayed sealants	Yes	No		
13	Is air extraction equipment in situ and in operation	Yes	AU	ATA	
14	Has each air extractor been fitted with new pre-fitters	Yes	-110	NHA	
15	Stage 2 visual inspection duration:	22	-mn	5	
			<u> </u>		
		\sim	-		Date: $2 \le / (3 / (3))$ Time: $0 \le 1 \le $
	BLE ASBESTOS WASTE, DEBRIS AND SL		-	RULUUN	CONSTRUCTED ON DESIGNATED WORK AREA IS (TREE) NOT FREE
ses	sment carried out by: A _Bo	عم	>		Signature:
				v * -	is present + wRAPPED in
_					SMALL SECTION WHICH
í.					ME USALWE TO ACION
					AREA WAS FOUND TO BE
					LAGENG OR RESIDLES.



03793

STAG	E 3	OF 4			Clearance	air monite	oring					>	.	····
3.1	Esti	mated size c	of enclosure		14	S AMA (M)	3.2	Are all an	eas within	the enclosure	/ work area	dry (Ye	s) -110	
3.3	1	iere evidenc use of spray	e or reason to ed sealant	suspect	Yæs	ß	3.4	ls air extr switched	action equ off with pre	ipment to the e-filters cappe	d and seale		<u> </u>	K
3.5			amples collect		2		3.6		· · · · · · · · · · · · · · · · · · ·	ng activities		ust-		
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ab Lo	catior	i: Permaner	nt / Site (M		lobile Lab - R		666	NT			ank (FB) no	minated:	Yes	<u> </u>
licros	cope	serial numb	er			286				escope numl			22-	1
			arometer / Ti	mepiece		<u>Sus</u>				er serial num	ber		575	
		neter serial				34				al number		- 0	39	(
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nalys	t's na	me: <u>A -</u>	BONS	2		- Contraction			1	<u> </u>		ate Flow R	ate (Ilmin)	
Samp Numb	11.24 (11.24)	Analyst Initial	Sampler Initial	Pump Number	Cowl Number	Start Time	A 600 C 61 C 600 C 60	inish Time	Duratior (min)	1 Start	60min	120min	180min	Fin
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Ð,	2	AB	AB	07581	02	08.5	59 0	ì·5٩	6 D	2·D				8
07	3	N/A	AB-		— F	IKND	Bi	s.t	÷					
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'e here rocedi	eby ce ure Do	rtify that the cument TPD	Asbestos Fib 6 and the HS	res in Air Sar SE's HSG248	tipling and An 3. The above	alysis has bee e tests meet t	he criteri	i set out i	in the inter	mational star	ndard ISO	/ IEC 1702	5	
OTE:										10/02/19 eq.ab	out 0.01 fb	oolmi Mib	on tha cam	ala voli
enual	to or a	preater than	480 litres and	1200 oraticul	e fields are ex	ntification for t amined, a calc	culated re:	ult below	the limit of	detection may	y be express	sed as <0.0	en me samj 1 f/ml.	he voit
or san	nple vo	lumes belov	v 480 litres an	id graticule fi	eld counts bel	ow 200, the low ated Intermedi	wer limit o ato flow m	accurate	measurem r where diff	ient will de hig lerences in an	aner. nhient tempi	erature and	or pressure	betwe
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		ESULT		(Passed	-Failed	Date:	25	110/	18		Time:	10.5	9
			IGNATED W	ORK AREA		CANNOT B			/					
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03793

Repo	tNo: フィフ ^の	1997/05 AB			Issue No: ON Page Of of C
	E 4 OF 4			losure / wor	rk area dismantling
4.1	Work area equipment a	<pre></pre>		No	COMMENTS:
4.2	ACM waste / debris	rrounding areas free of	Yes		
4.3	ACM waste / debris / re		Yes	140	
4.4	the area, free of ACM v	ent immediately adjacent to vaste / debris / remnants	Yes	No	
4.5	ACM waste / debris	te and skip location free of	Yes	110	
4.6	Reassurance air testing deconstruction process	g carried out during the	Yes	No	
STAG	E 4 RESULT		Passed	Failed	Date: 25/10/18 Time: 13.20
THE A	REA CAN BE / CAN	NOT BE REOCCUPIED	\smile	-	
		by: A BONS	>		Signature: ACC
		tive acknowledgemen	a a a a a a a a a a a a a a a a a a a	******	
	seen advised by	4			
	-	pation will be issued because	the area has I	lailed stage:	<u> </u>
	been advised by				
		on can be issued as the area	has nassed all	4 stages	
		strike through the other optic			22/10
Con	tractor representati	ve's Name: 1 ·	PEVLE	ion	Date: 25/10/18
		Signature:	D		Time: 13 LO
Certi	ficate of reoccupat	ion issue details			
Copie	es of this certificate	(with appendages wi	nere applica	able) were	issued to the following:
Сору	1 issued to: D	sm DEMOL	_1770/	\sim	
Сору	2 issued to:	N/A	nuniminasinininininini	مېرور د د د د د د د د د د د د د د د د د د	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Othe	copies issued to:	NA	age anna de activa a de la gran a como como como a com ⁴ desa		
Арре	nded documents:	N A		<u>un an an air an </u>	
		·····			
		A Roah			Date: 25/10/18
l ech	nician's Name:	A.BOND			
Note:	Signature: A copy of the Certificate of r removal contractor.	eoccupation must always be issu	ied to the asbest	os Ti th	Time: 13.20 he asbestos removal contractor requires a separate clearance certificate of inspection for he hygiene facility unless the unit is to remain on site for additional works.
C/124-1	I Issue date: 28.02.14	annan e an Mellen ganan ann a feileanna ann an Air an Air an Air an Air an Air ann an Air ann an Air an Air an			
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Asbestos Consultants Europe Ltd

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

Certificate of Reoccupation



	Tertantienta manufertaria en en en en ente					e O1 of O6
UKAS accredited methods	We hereby certif Executive HSG2	that site assessment 8 and the Asbestos C	for reoccupation h onsultants Europe	ias been car Etd Techni	ried out in accordance with th cal procedure document TPD	e Health and Safety 6.
Accredi	TED BY UKAS I	OR STAGES 1, 2,	3 & 4 OF THE	4 STAGE	CERTIFICATE OF REO	CCUPATION
Customer's name & address	Benn	nolition htman, PENER	BSIDE	<u>-</u>	EN MOUSE, A	
Site address	Forma	3 JDE	BANBU	en,	DELG2QU	ROAD
Contractor's name & address	Same	AS (US	Tome			
Contractor's representat	ive who is responsib	ame: SEE	ABOVE	Tel	ephone No: SEE A	Bove
vill acknowledge the out	come and findings re	e for confirming their in ported by the ace tec	nspection of the er hnician	nclosure and	/ or work area is complete ar	nd satisfactory and wh
acknowledge the out	come and findings re	ported by the ace tec	hnician	nclosure and	I / or work area is complete ar	nd satisfactory and wh
Representative's nar Areas to be assessed	ne: TCOC	Percel	hnician LtM	nclosure and	I / or work area is complete ar	2010210-00-00-00-00-00-00-00-00-00-00-00-00-0
Representative's nar Areas to be assessed	ne: TCOC	Percel	hnician $\mathcal{L}\mathcal{H}\mathcal{H}$ where \mathcal{L}	nclosure and	DITHW FM	2010210-00-00-00-00-00-00-00-00-00-00-00-00-0
Representative's nar Areas to be assessed with asbestos has ta	ne: TCCCA	PERE PERE CNCCOS GODS	hnician LEM WRE 2 EAST	nclosure and	DITHW FM	201011201120012001200120012001200
Representative's nar Representative's nar Areas to be assessed vith asbestos has ta	ne: TCCCA	Percent Perce Concios Goods Remont	hnician LEM WRE 2 CAST	Rui Bui WSU	UTTIN FIN DWG LATION TO	USHOD
Representative's nar Areas to be assessed vith asbestos has ta	ne: TCCCA	PERE PERE CNCCOS GODS	hnician LEM WRE 2 CAST	Rui Bui WSU	UITTIN FIN DWG	USHOD
Representative's nar Areas to be assessed with asbestos has ta	come and findings ro ne: TCCC d where work ken place	ported by the ace tec <u>PEVEE</u> <i>CNCLOS</i> <i>GOODS</i> <u>PEMOVA</u> <u>TO CRO</u> Date(s) work carried	hnician LEM MRE 2 CAST CAST CAST FRE CU	BUI BUI WSU	UTTIN FIN DWG LATION TO	านอารารระบารการการการการการการการการการการการการกา
e contractor's confirmed	come and findings re ne: TCCCC d where work ken place York undertaken d that their inspection a is completed and s	ported by the ace tec <u>PEVEE</u> <u>C</u> VCLOS <u>C</u> OODS <u>C</u> OODS <u>E</u> <u>C</u> OOA <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>Date(s) work carried</u> of the	hnician LEM MEE 2 CAST CAST CAST OF FTE CU out by contractor: TE	nclosure and <u>Q</u> <u>B</u> <u>U</u> <u>B</u> <u>U</u> <u>B</u> <u>U</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u>	UTTON TO LATION TO	nshed fiftwool contractors
Representative's nar Areas to be assessed with asbestos has ta	come and findings re ne: TCCCC d where work ken place vork undertaken d that their inspection a is completed and s work completed	ported by the ace tec <u>PEVEE</u> <u>CVCios</u> <u>COODS</u> <u>COODS</u> <u>ECOOM</u> <u>Date(s) work carried</u> of the atisfactory <u>Yes</u>	hnician LEM MEE 2 CAST CAST CAST OF FTE CU out by contractor: TE	nclosure and <u>Q</u> <u>B</u> <u>U</u> <u>B</u> <u>U</u> <u>B</u> <u>U</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u>	UTTON FOR DWG UTTON TO L POWT 10/18 is not to proceed without	nshed fiftwor contractors tion

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STAGE	1 OF 4	Preli	minary e	check of	f site condition and job completeness
1.1	Plan of work checked and entire work area defined/agreed including method of remova when enclosure not used	" (Ye	110	-	COMMENTS:
1.2	Diagram or photos showing main work area features agreed with and signed by contractor	Yes	110		
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	-¥es	No	(N/A)
1.5	Enclosure intact and constructed to encompass the defined work area with reasonable working space	Yes) . No	A#A	
1.6	Airlocks / Baglocks suitably constructed and at least 1m x 1m x 2m (height)	es	1 10	- NHA-	
1.7	Air extraction unit(s) fitted to enclosure and operating	Ves	No	AHA-	
1.8	Hygiene facility still intact and operating, including air extraction	Yes	Na		STAMWY W JITH FOR FLETTIG
1.9	Hygiene facility clean end compartment checked for cleanliness, hot / cold water and heating	Tes	No		
.10	Hygiene facility shower area and dirty end compartments inspected and found clean and free from stored items	Ves	AT	ļ	
.11	Transit and waste route signs appropriately displayed	(Yes)	AC		
.12	Transit and waste route areas free from obvious signs of contamination / ACM waste / debris	Yes	, 410		acheen Dust present Due TO ON howh works.
13	Skip area free from obvious signs of contamination / ACM waste / debris	(Yes)	No	ATA	LOCATED OWDIDE BUILDING
14	Areas immediately adjacent enclosure / work area free from obvious signs of contamination / ACM waste / debris	res	.₩o		
	Work area only (inspected from barrier edge) for identification of any remedial action requirements prior to entry	Xes	₽		
16	Enclosure inspected via viewing panels and/or CCTV for any remedial action requirements prior to entry	Yes .		AHA .	
7	Any additional checks (details of additional checks to be recorded n comments section)	Yes	No		
AGE 1	RESULT	Passed) .Fei	ted	Date: 25/10/18 Time: 08.22
sessme	ent carried out by: A - Box	ك	and the second		Signature:
DITIONAL (COMMENTS: N/A				
			. Laine a laine a san an a	1971 (F. 1981 (F. 1971 (F. 197	

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	GE 2 OF 4	Visu	ial insp	pection	
2.1	Is there adequate lighting and essential equipment within the enclosure / work area	Yes) A10	-	COMMENTS:
2.2	Is the enclosure internal construction intact	Yes) 240	-	
2.3	Is the enclosure / work area dry	Yes) _No	-	
2.4	Is there plant / equipment within the enclosure / work area	Yes	/ No	<u>}</u>	
2.5	Is there the presence of fine settled dust to any surfaces within the enclosure / work area	Yes		>	
2.6	Has all the ACM specified in the plan of work been removed / encapsulated	Fes	- المر	-	
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		
.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	-	
.10	Is there loose rubble flooring within the enclosure / work area	Mes	No		
.11	Have waste bags, materials, unnecessary equipment been removed from the enclosure / work area	(Yes)	HO		
12	Is there evidence or reason to suspect the general use of sprayed sealants	.Yes	No		
13	Is air extraction equipment in situ and in operation	(es)	Na	NA	
14	Has each air extractor been fitted with new pre-filters	(Yes)	No	NHA	
15	Stage 2 visual inspection duration:	24	-M	νS	
	2 RESULT	Passed		ailed	Date: 25/10/18 Time:09.45
E EN(CLOSURE INCLUDING AIRLOCK AND BA	SLOCK (RFACE D	WHEN B IUST	AGLOCK	CONSTRUCTED) OR DESIGNATED WORK AREA IS FREE NOT FREE
sess	ment carried out by: A .Bo	N	·		Signature:
		and a subsection of the second se	and the second s	<u>~~S</u>	PRESENT + WRATPED W
Po	LATHERE EXCLUS	DWG	N A	5	WALL JECTION WHICH HAS
<u>56</u> Por	W STRIPPED OF	= 77- (A	1€ 14 ¥	LAL IS	thank to Accow that cut
fo No	NT. This AR	64	WA	ts ;	Found to BE CLEAN WIT

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STAGE	3 OF 4			Clearan	ce air monito	oring							
3.1	Estimated size	of enclosur	3	1	6 min	3.2	Are all ar	eas within	the enclosure	e / work area	a dry	es) -Ho	
3.3	Is there eviden the use of spra		to suspect	Yes		3.4			ipment to the e-filters cappo		ed (Y	es Ao	- N
3.5	Number of air s	amples coll	ected	2		3.6	Method c	of dust raisi	ng activities	BI	Zust		
3.0	Number of air r	neasuremer	nts required	2		0.0	Duration	of dust rais	ing activities	3 /	nn	S	
1.400 per 44 Tuesday (14 states)			Tech	nical data	& Clearand	ce indic	ator a	ir samp	ling deta	ils	ور مودر مر مر مر مردم		
Lab Loca	tion: Permane	nt Ble /	Mobile) II	Mobile Lab -	Reg No: A-C	66 v	175		Field Bl	ank (FB) no	ominated:	Yes) _A
Microsco	pe serial num	per	<u> </u>		236		Phase co	ontrast tel	escope num	ber		25	7
Digital TI	ermometer / E	arometer /	Timepiece		Sus		Working	flow mete	r serial num	ber		575	6
Stage mi	crometer seria	Inumber			34		NPL test	slide seri	al number			3.	۱
1 and 1 and 1 and 1 and 2 and 2 and 2	uantification f			ents = $D \cdot D$	1fml.				-27		30		
Analyst's	name: 🔨 -	Bon	D		(Sarr	pler's na	ime: 🗡	-Bon	<u></u>			
Sample		Sample					inish Tana	Duration			iate Flow F	1	enegenalise son A estatutation
Number		Initial	Numbe				ime	(min)	Start	60min	120min	180min	Fini
61	AB	AS	0758	2 05	01.4	7 [0	.47	6 D	8.0				8.
02	AB	AB	0753	3 06	09-51	010	50	6ъ	o [.] 8				8.
D3	NA	AB		- F	iGD	B	is	+-					
				`		6	A			[
Sample Number	Locatic Refer to p Page No.	olan ja	mp Pre C) (mb	as all official r	ate Voli	ume res)	Num of Field		Number of Fibres		alculated Result (f/ml)	R	eported esult f/ml)
01	SPO		o id		0480		20	0 (, +	10.	002	1	· o (
02	590				0 480		26		ir /	<u>ь</u>	004	10	· 0 1
oz							20	-	2/				·
V.7				FIEL	D BU			C	<u>P</u>	<u>(1)</u>			
	1				- 6	とう	>						
			;	í]	1		ł.			1	
	e calibrated	YES)_40		NF	PL band re	solution:	5	Gra	ticule diame	eter: 101	6	μm
Aicroscop Aembrane	filters used:	Nitrocellulos			NF Im Dia / Printed (nalysis has been	Grid B	atch No.	1309		Exposed fi	iter: ንኅ	7.61	mm²
Aicroscop Aembrane Ve hereby rocedure OTE: 4) UNCE equal to	filters used: certify that the Document TPD RTAINTY OF M or greater than	Nitrocellulos Asbestos Fi 6 and the F MEASUREM 480 litres ar	bres in Air Sa ISE's HSG24 ENT: The lo d 200 graticu	ampling and A 8. The abov wer limit of qui ile fields are e	m Dia / Printed (Grid B carried ou e criteria s e above m lated resu	atch No. It in accor set out in ethod is s It below th	dance with the intern stated in HS he limit of d	the Asbesto ational stan GG248 as abo etection may	Exposed fil s Consultan dard ISO out 0.01 fibr	Iter: てろう Its Europe L / IEC 17025 es/ml. Whe	T-C td Technica	mm² I
Aicroscop Aembrane Ye hereby rocedure OTE: Y) UNCE equal to or sample ★) ACT	filters used: certify that the Document TPD RTAINTY OF M or greater than volumes below	Nitrocellulos Asbestos Fi 6 and the F MEASUREN 480 litres ar 480 litres a TE: Determ	bres in Air Sa ISE's HSG24 ENT: The loo d 200 graticu nd graticule l ned by avera	ampling and A 18. The above wer limit of qui the fields are e field counts be aging the calib	im Dia / Printed (nalysis has been re tests meet the antification for the xamined, a calcu low 200, the lowe rated Intermediat	Grid B carried ou e criteria s e above m lated resu er limit of a e flow rate	atch No. It in accor set out in ethod is s It below th accurate n is and/or the	dance with the intern stated in HS ne limit of d neasureme where diffe	the Asbesto ational stan GG248 as abo etection may nt will be hig	Exposed fil s Consultan dard ISO put 0.01 fibr be express her.	tter: 75 1 Its Europe L I IEC 17025 es/ml. Whe red as <0.01	The samp	mm² il le volun
Aicroscop Aembrane Ye hereby Tocedure OTE: Y) UNCE equal to or sample A) ACTI e calibrat TAGE 3	filters used: certify that the Document TPD RTAINTY OF M or greater than volumes below JAL FLOW RA	Nitrocellulos Asbestos Fi 6 and the F MEASUREM 480 litres ar 480 litres a TE: Determ g sites are g	bres in Air Sa ISE's HSG24 ENT: The lo d 200 graticu nd graticule l ned by avera greater than 5	Ampling and A 8. The above wer limit of qui use fields are e field counts be aging the calib s ⁹ %. Passed	im Dia / Printed (nalysis has been re tests meet the antification for the xamined, a calcu low 200, the lowe rated Intermediat	Grid B carried ou e criteria s e above m lated resu er limit of a e flow rate Date:	atch No. It in accor set out in ethod is s It below th accurate n as and/or the QSC	dance with the intern stated in HS ne limit of d neasureme where diffe	the Asbesto ational stan GG248 as abo etection may nt will be hig	Exposed fil s Consultan dard ISO put 0.01 fibr be express her.	tter: 75 1 Its Europe L I IEC 17025 es/ml. Whe red as <0.01	The samp	mm² Il le volun betwee
Aicroscop Aembrane A	filters used: certify that the Document TPD RTAINTY OF M or greater than volumes below JAL FLOW RA on and samplin RESULT	Nitrocellulos Asbestos Fi 6 and the F IEASUREN 480 litres ar 480 litres a TE: Determ g sites are g GNATED V	bres in Air Sa ISE's HSG24 ENT: The loo d 200 graticu nd graticule l ined by avera greater than 5 /ORK AREA	Ampling and A 8. The above wer limit of qui- ule fields are e field counts be aging the calib 5%. Passed CAN BE	Im Dia / Printed (nalysis has been re tests meet the antification for the xamined, a calcu low 200, the lowe rated intermediat	Grid B carried ou e criteria s e above m lated resu er limit of a e flow rate Date: DISMAN	atch No. It in accor set out in ethod is s It below th accurate n as and/or the QSC	dance with the intern stated in HS ne limit of d neasureme where diffe	the Asbesto ational stan GG248 as abo etection may nt will be hig rences in am	Exposed fil s Consultan dard ISO put 0.01 fibr be express her.	iter: 了っつ its Europe L / IEC 17025 es/ml. Whe ed as <0.01 erature and/	T-C td Technica en the samp I f/ml. or pressure	mm² Il le volun betwee

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	E 4 OF 4		ent post en	closure / wo	rk area dismantling	
4.1	Work area equipment and / or deconstruction process witnes	sed by the technician	Yes	110	COMMENTS:	
4.2	Is the work area and surround ACM waste / debris		Yes	No		۲۰۰۰ مار می از ۲۰۰۰ می ۲۰۰۰ می از ۲۰۰۰ می از ۲
4.3	Is plant and / or equipment wit ACM waste / debris / remnant	3	Yes	No		
4.4	Is plant and / or equipment im the area, free of ACM waste /	debris / remnants	(res)	HO		
	Is the transit, waste route and ACM waste / debris		es	AIO		
4.6	Reassurance air testing carrier deconstruction process	fout during the	Yes	6		
TAGE	E 4 RESULT		Passed	Eailed	Date: 25/10/18	Time: 13 · 3)
contr	isment carried out by: actor's representative ac cen advised by	alan kanalan k			Signature: ABC	
at a fa nave be at the (comple	iled Certificate of reoccupation w een advised by A _B o Certificate of reoccupation can be te one of the above and strike th	issued as the area h ough the other option	as passed all -	4 stages	1 2 3	
Contr	actor representative's N Signa		5	PC4	1 Date: 25/ Time: 13.	1
ertifi	cate of reoccupation iss	ie details	****			
opies	of this certificate (with a	ppendages whe	re applicat	ole) were is	sued to the following:	
opy 1	issued to: DSM	DENC	Xin	∞		
ру 2	issued to: \mathcal{N}	4.	and a subsequences and a subsequences of the s	24724724721172472472472472472472472472472472472	aller and a second a	arcser@www.ars.mutormutormutormutormutormutorm
her c	copies issued to: \mathcal{N}_{p}	<u>/</u> A				
openc	led documents: <u>~/</u> .	Á			********	
chnic	cian's Name: A _E	Bond		5616010101010101010101010101010101010101	Date: 25/0	0/18
	Signature:	must always be issued to	the asbestos	The as	Time: 13 · 3 bestos removal contractor requires a separate cleara	nce certificate of inspection for
	noval contractor.				piene facility unless the unit is to remain on site for ad	
	Issue date: 28.02.14					

ľ

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Asbestos Consultants Europe Ltd

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



Certificate of Reoccupation

Report No: J1799	997/DJ01			Issue No: 1		Page 1 of	6		
Customer's Name 8	Address			DSM Demolition Limite	d ,Arden House	, Arden Road, B	Birmingham, B8 1DE ,		
				Contact Name: Keiron Jo	nes		Telephone No: 0121 322 2225 / 07917 085959		
Site Address				Former JDE Banbury,	Southam Road,	Banbury, Oxfo	rdshire, OX16 2QU,		
Asbestos Removal (Name & Address	Contractor's:			DSM Demolition Limited, Arden House, Arden Road, Birmingham, B8 1DE					
Site Supervisor Nam	ne:	T.Peve	rley	Site Supervisor Tel: 07584028527					
			Executive	tive Summary					
who will acknowledge Representative's na	the outcome a	nd findin	le for confirming their inspection igs reported by the ACE technion		/ or work area	is complete an	d satisfactory and		
Location of Work:			Enclosure 18 within Finished C	Goods East Building					
Scope of Work:			A single screw fixed AIB pane enclosure. High level redunda enclosure. The insulation is in identified.	nt heating pipe lagged	with asbestos ir	nsulation will be	e removed inside a full		
	ted. Technicia		their inspection of the enclosu to proceed without contractor's						
UKAS accredited me	ethods:	Safety	eby certify that site assessme Executive HSG248 and the As DITED BY UKAS FOR THE 4 S	bestos Consultants Eur	ope Ltd Technic	cal procedure d			
ACE Technical Equip	oment Used:		Microscope No: 00286	Phase contrast telesc	ope No: 00287	Flow m	neter No: 05756		
Tally Counter: 002	279/00280	Digital	Ther/Barometer - Timer No: /05115/	NPL test slide No: 00391		Stage micrometer No: 00034			
Mobile Lab: Mobile I	_ab			·					
Test Report:	relevant e	nvironm	test results and any incidents o ental conditions that significant s & interpretations express	y influenced results and	actions required	l as a result from	n any incidents etc)		
Confirmed start of t	he assessme	ent:	Date: 24/10/2018		Time: 07:10				

QC/262-1 Issue date: 10.10.14

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Report No: J179997/DJ01			Issue No: 1	Page 2 of 6	
	Layout	Diagram of A	sbestos Removal Site	÷	
Site Layout Diagram: Enclosure	18 within Finished	Goods East Bu	ilding		
Enclosure 2m ²	Enclosure Volume:				
	Finis	shed Goods East Buildin	ng	WS	
Key: Enclosure Work Area Hygiene Facility Main work area features ag Technician's name: Ashley Bond Signature:	-	Waste Skip Airlock Baglock ned by the asbe	WS AL BL stos removal contractor Contractor's name: T.I Signature:	-	NPU TR SP technician

QC/262-1 Issue date: 10.10.14



Repo	ort No: J1799	997/DJ01				Issue	e No:	1		Page 3 of 6	
STAGE	E 1 OF 4		Preliminary of	check of s	ite cor	ndition	and	ob completene	ess		
1.1		ecked and entire work oval when enclosure no	0	d including	Yes	1.2	· ·	m or photos showin by contractor	g main w	ork area features agreed with and	Yes
1.3	Is any asbestos removed	to remain in work area	a not in the contrac	t to be	No	1.4	Work area only (enclosures not used), clearly defined with physical barriers appropriately placed			ed), clearly defined with physical	N/A
1.5		t and constructed to er nable working space	ed work	Yes	1.6	Airlocl (heigh	•	ly constr	ructed and at least 1m x 1m x 2m	Yes	
1.7	Air extraction u	nit(s) fitted to enclosure	e and operating		Yes	1.8	Hygiei	ne facility still intact	and ope	rating, including air extraction	Yes
1.9	Hygiene facility hot / cold water	anliness,	Yes	1.10	1.0	ne facility shower ar und clean and free		dirty end compartments inspected red items	Yes		
1.11	Transit and was		Yes	1.12	Transit and waste route areas free from obvious signs of contamination / ACM waste / debris			Yes			
1.13	Skip area free f debris	from obvious signs of o	contamination / ACI	M waste /	Yes	1.14	Areas immediately adjacent enclosure / work area free from obvio signs of contamination / ACM waste / debris				Yes
1.15		(inspected from barrier requirements prior to e		cation of any	N/A	1.16		sure inspected via v ial action requireme	0.1	anels and/or CCTV for any to entry	Yes
1.17	Any additional of comments sect	checks (details of addit ion)	ional checks to be	recorded in	No						
Result	: PASSED	Date: 24 Oct 2018	Time: 09:19	Assessed	by: Ash	ley Bon	Ł	Signature:		AR	
•	1 Comments to stay in si	tu for further wor	ks.								
		present due to or									
.13-sł	kip located o	utside building.									

STAGE	E 2 OF 4			Vi	isual In	specti	on			
	Is there adequa enclosure / wor	te lighting and essentia	al equipment within	the	Yes	2.2	Is the	e enclosure internal construction intact	Yes	
2.3	Is the enclosure	e / work area dry			Yes	2.4	Is the	ere plant / equipment within the enclosure / work area	No	
2.5	Is there the pre enclosure / wor	sence of fine settled o k area	lust to any surfaces	s within the	No	1 26		all the ACM specified in the plan of work been removed / osulated	Yes	
2.7		maining within the enc he plan of work	losure / work area	not specified	No	2.8		ere evidence of inaccessible ACM or reason to suspect its ence within the enclosure / work area	No	
2.9		ces within the enclosur emove all the ACM, su nal			No	2.10	Is the	re loose rubble flooring within the enclosure / work area	No	
2.11	Have waste bag from the enclos	gs, materials, unneces ure / work area	sary equipment be	en removed	Yes	2.12	Is there evidence or reason to suspect the general use of sprayed sealants			
2.13	Is air extraction	equipment in situ and	in operation		Yes	2.14	Has each air extractor been fitted with new pre-filters			
2.15	Visual Inspection	on start time:			09:59	2.16	Visual Inspection end time:			
		UDING AIRLOCK AN ASTE, DEBRIS AND S		N BAGLOCK	CONST	RUCTED	0) OR	DESIGNATED WORK AREA HAVE PASSED FOR BEING FR	EE OF	
Result	: PASSED	Date: 24 Oct 2018	Time: 10:23	Assessed	by: Ash	ley Bond	I	Signature:		
The pi								n which has been stripped of the lagging to allo	w the	

QC/262-1 Issue date: 10.10.14



Rep	ort No: J179997/DJ01			ls	sue No: 1	Page 4 of 6			
STAG	E 3 OF 4		CI	Clearance Air Monitoring					
3.1	Estimated size of enclosure	2 m²	16 m³	3.2	Are all areas within the enclosure / wo	rk 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 encl capped and sealed	osure switched off with pre-filte	rs	Yes	
3.5	Number of air samples collected	2		2.0	Method of dust raising activities		Brus	sh	
3.5	Number of air measurements required	2		3.6	Duration of dust raising activities (min	utes)	3 minu	utes	

Sample	Ameliant	0	Duran Ma	O and Ma	Count No. Test Start		Test Start F		Start Finish	Finish Duration	Int	Intermediate Flow Rate (I/min)			
Number	Analyst	Sampler	Pump No	Cowl No	Туре	Time	Time	(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	Rr	Location refer to Plan No		Temp (°C)	Pres (mbar)	☆ Actual flow rate (I/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	h	igh level/scaffold		14	1018	8.0	480	200	6	0.003	<0.01
Microscope Calibrated: Yes Band 5		Band 5	of HSE/NP	L test slide	visible: Yes Gra	aticule diamet	ter: 100 µm	Tot	tal Number of sam	ples this page: 2	
Membrane filters	used: Nit	trocellulose / 1.2 µ	m pore	size / 25 m	m Dia / Prin	ited Grid Ba	tch No: B013	09	Exp	oosed Filter 22.5mm	1 ²
Result: PASSED Date: 24 Oct 2018 Ti		Time	e: 12:03	Asses	sed by: Ashley	Bond \$	Signature:	2	SR	~~~	

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.								
	(\Rightarrow) 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%.								

QC/262-1 Issue date: 10.10.14



Repo	ort No: J17	9997/DJ01				Issue	No:	1	P	age 5 of 6	
STAG	E 4 OF 4		Final assessr	nent pos	st enclo	osure/v	vork	area dismantling			
4.1		uipment and / or enclosu the technician	re deconstruction pro	ocess	No	4.2	Is the	work area and surround	ding area	s free of ACM waste / debris	Yes
4.3	ls plant and / debris / remn	or equipment within the a	area free of ACM wa	ste /	Yes			nt and / or equipment ir waste / debris / remnan		ly adjacent to the area, free of	Yes
4.5	Is the transit, debris	waste route and skip loc	ation free of ACM wa	aste /	Yes	4.6 Reassurance air testing carried out during the deconstruction process				No	
THE AR	EA IS SAFE I	OR REOCCUPATION	1	i							
Result	: PASSED	ASSED Date: 24 Oct 2018 Time: 13:17 Assessed by:					I	Signature:	\times		
Stage 4 Comments: Please refer to stage 2 additional comments.											
		resentative ackno	-								
		ISED BY Ashley Bon									
THAT	HE AREA I	SAFE FOR REOCCU									
Contra T.Peve	•	sentative's name:	Date: 24 Oct	2018 T	ime: 13:1	8 Sign	ature:	T	Ð		
Certifi	cate of rec	ccupation issue d	etails								
		rtificate (with appe		pplicab	le) were	e issue	d to t	he following:			
Copy 1	issued to	DSM									
Copy 2	2 issued to	N/A									
Other	copies iss	ied to: N/A									
Appen	ded docun										
Note:	A copy of the Certificate of reoccupation must always be issued to the asbestos removal contractor. 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.										
Techn	ician autho	rising					X				
	g documen	•	ond	Signatur	e					Issue Date: 24 Oct 2	2018

QC/262-1 Issue date: 10.10.14



Report No: J179997/DJ01	Issue No: 1	Page 6 of 6
Photos Pages		
Stage 1 Photos		
Stage 2 Photos		
Stage 4 Photos		
Air Sample Photos		

QC/262-1 Issue date: 10.10.14



Asbestos Consultants Europe Ltd

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



Certificate of Reoccupation

Report No: J179	997/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 Name & Address	Contractor's:		DSM Demolition Limited, Arden House,	Arden Road, Birmingham, B8 1DE		
Site Supervisor Nam	ne:	T.Peverley	Site Supervisor Tel:	07584028527		
		Executive	e Summary			
	the outcome a	nd findings reported by the ACE techr	on of the enclosure and / or work area iician:	is complete and satisfactory and		
Location of Work:		Enclosure 27 within Finished	Goods East Building			
Scope of Work:		enclosure. High level redunda	el behind in generally good condition is ant heating pipe lagged with asbestos in a generally good condition. Amosite and	nsulation will be removed inside a full		
asbestos work comple Site Supervisor's Si		n is not to proceed without contractor	s confirmation of a satisfactory inspect	tion.		
UKAS accredited me	ethods:	Safety Executive HSG248 and the As	ent for reoccupation has been carried c sbestos Consultants Europe Ltd Techni	cal procedure document TPD 6.		
ACE Technical Equip	oment Used:	Microscope No: 00286	Phase contrast telescope No: 00287	Flow meter No: 05756		
Tally Counter: 00	279/00280	Digital Ther/Barometer - Timer No: /05115/	lo: NPL test slide No: 00391 Stage micrometer No: 00			
Mobile Lab: Mobile I	Lab		·	·		
Test Report:	relevant e	nvironmental conditions that significant	of elevated fibre levels; plus details of an ly influenced results and actions required sed herein are outside the scope o	d as a result from any incidents etc)		
Confirmed start of	the assessme	ent: Date: 24/10/2018	Time: 07:10			

QC/262-1 Issue date: 10.10.14

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				Issue No: 1 Page 2 of 6					
		Layout	Diagram of A	sbestos Removal Site	•				
Site Layout	Diagram: Enclosure 27	within Finished	Goods East Bu	ilding					
Enclosure Area:	2m ²	Enclosure Volume:	16m ³						
			hed Goods East Buildin	DJ000179	ws				

QC/262-1 Issue date: 10.10.14



Repo	ort No: J179	997/DJ02				Issue	e No:	1	Pa	ge 3 of 6	
STAGI	E 1 OF 4		Preliminary cl	heck of s	ite cor	ndition	and	job completeness	5		
1.1		ecked and entire work a oval when enclosure no		including	Yes	1.2	· ·	am or photos showing m d by contractor	iain work a	rea features agreed with and	Yes
1.3	Is any asbestos removed	to remain in work area	a not in the contract	to be	No	1.4	Work area only (enclosures not used), clearly defined with physica barriers appropriately placed				N/A
1.5	Enclosure intac area with reaso	d work	Yes	1.6	Airlocks / Baglocks suitably constructed and at least 1m x 1m x 2m (height)				Yes		
1.7	Air extraction u		Yes	1.8	Hygie	ne facility still intact and	d 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 debris	from obvious signs of c	ontamination / ACM	I waste /	Yes	1.14	Areas immediately adjacent enclosure / work area free from obvious signs of contamination / ACM waste / debris			Yes	
1.15	· ·	(inspected from barrie requirements prior to e		ation of any	N/A	1.16		sure inspected via viewi lial action requirements	• •		Yes
1.17	Any additional comments sect	checks (details of additi ion)	onal checks to be re	ecorded in	No						
Result	Result: PASSED Date: 24 Oct 2018 Time: 09:18 Assesse						Ы	Signature:	¥	ASA	
1.8-HF 1.12-G	eneral dust	tu for further wor present due to on utside building.						1			

STAGE	E 2 OF 4			Vi	isual In	specti	on			
2.1	Is there adequa enclosure / wor	te lighting and essentia	al equipment within t	he	Yes	2.2	Is the	enclosure internal construction intact	Yes	
2.3	Is the enclosure	e / work area dry			Yes	2.4	Is ther	e plant / equipment within the enclosure / work area	No	
2.5	Is there the pre enclosure / wor	sence of fine settled o k area	lust to any surfaces	within the	No	2.6	1	II the ACM specified in the plan of work been removed / sulated	Yes	
2.7	Is there ACM re for removal in t	maining within the enc he plan of work	losure / work area n	ot specified	No	2.8	Is there evidence of inaccessible ACM or reason to suspect its presence within the enclosure / work area			
2.9		ces within the enclosur emove all the ACM, su nal			No	2.10	Is there loose rubble flooring within the enclosure / work area			
2.11	Have waste bag from the enclos	n removed	Yes	2.12	Is there evidence or reason to suspect the general use of sprayed sealants					
2.13	Is air extraction		No	2.14	Has each air extractor been fitted with new pre-filters					
2.15	Visual Inspection	on start time:			09:25	2.16	Visual Inspection end time:			
		UDING AIRLOCK AN ASTE, DEBRIS AND S	(N BAGLOCK	CONST	RUCTED)) or i	DESIGNATED WORK AREA HAVE PASSED FOR BEING FRE	E OF	
Result						ey Bonc	1	Signature:		
The pi								n which has been stripped of the lagging to allow	v the	

QC/262-1 Issue date: 10.10.14



Rep	ort No: J179997/DJ02			Issue No: 1 Page 4 of 6					
STAGE 3 OF 4 Clearance Air Monitoring									
3.1	Estimated size of enclosure	2 m²	16 m³	3.2	3.2 Are all areas within the enclosure / work area dry				
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					
3.5	Number of air samples collected	2		Method of dust raising activities			Brus	sh	
3.5	Number of air measurements required	ad 2 3.6 Duration of dust raising activities (minutes) 3 minute						utes	

Sample	Ameliant	0	Duran Ma	O and Ma	Test	Start	Finish	Duration	Intermediate Flow Rate (I/min)			
Number	Analyst	Sampler	Pump No	Cowl No	Туре	Time	Time	(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	R	Location refer to Plan No		Temp (°C)	Pres (mbar)	☆ Actual flow rate (I/min)	Volume (Litres)	Number of Fields	Number of Fibres	Calculated Result (f/ml)	# Reported Result (f/ml)
DJ000178	lo	w level/ground floor		N/A	1018	8.0	480	200	1.5	0.001	<0.01
DJ000179	ł	nigh level/scaffold		N/A	1018	8.0	480	200	9	0.005	<0.01
Microscope Calibrated: Yes Band 5		ind 5 d	of HSE/NP	L test slide	visible: Yes Gr	aticule diame	ter: 100 µm	To	tal Number of sam	ples this page: 2	
Membrane filters	used: Ni	trocellulose / 1.2 µm	pore	size / 25 m	m Dia / Prir	nted Grid Ba	tch No: B013	09	Ex	posed Filter 22.5mm	1 ²
Result: PASSED Date: 24 Oct 2018		Time	e: 11:19	Asses	ssed by: Ashley	Bond	Signature:	7	1CA	\frown	

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.								
	(\Rightarrow) 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%.								

QC/262-1 Issue date: 10.10.14



Repo	ort No: J179	9997/DJ02				Issue	No:	1	Page 5 of 6			
STAG	E 4 OF 4		Final assessr	nent po	st enclo	sure/v	vork	area dismantling				
4.1	Work area eq witnessed by	iipment and / or enclosu he technician	re deconstruction pro	ocess	No	4.2	Is the	work area and surrounding a	reas free of ACM waste / debris	Yes		
4.3	Is plant and / debris / remna	or equipment within the a	area free of ACM wa	ste /	Yes	4.4	Is plant and / or equipment immediately adjacent to the area, free of ACM waste / debris / remnants					
4.5	4.5 Is the transit, waste route and skip location free of ACM waste / Yes debris							Reassurance air testing carried out during the deconstruction process No				
THE AREA IS SAFE FOR REOCCUPATION												
Result	sult: PASSED Date: 24 Oct 2018 Time: 11:52 Assessed by: As						I	Signature: –	AR-			
Stage 4 Comments: Please refer to stage 2 additional comments												
		esentative ackno										
<u> </u>		SED BY Ashley Bon										
	HE AREA IS	SAFE FOR REOCCU	JPATION									
Contra T.Peve	-	sentative's name:	Date: 24 Oct	2018 T	īme: 11:52	2 Sign	ature:	tas	Ō			
Certifi	cate of reo	ccupation issue d	etails									
		tificate (with appe		applicab	le) were	issue	d to t	the following:				
Copy 1	issued to:	DSM										
Copy 2	2 issued to:	N/A										
Other	copies issu	ed to: N/A										
Appen	ded docum											
Note:		of the Certificate of re be issued to the asbe- ctor.	stos removal					requires a separate cleara s to remain on site for addi	nce certificate of inspection for th tional works.	ne		
T . 1			· _ · .				7	R.				
	ician autho g document	•	ond	Signatur	re				Issue Date: 24 Oct 2	2018		

QC/262-1 Issue date: 10.10.14



Report No: J179997/DJ02	Issue No: 1	Page 6 of 6
Photos Pages		
Stage 1 Photos		
		EXCLUSION ZONE ENVIRONMENTAL TEAM BEYOND THIS POINT Sting
Stage 2 Photos		
	- Calina - Calina - Calina	No photographic evidence taken.
Stage 4 Photos		
Air Sample Photos		

QC/262-1 Issue date: 10.10.14

ace	C	Certificate of Reoccupation							
				-	1.000		Dene	0379 6	
Report No: J18						No: OL	Page D		
UKAS accredited methods	We hereby certify th Executive HSG248	and the Asbesto	os Consulta	nts Europe	Ltd Technica	procedure doct	inem in b o.	and the second s	
ACCREDIT	TED BY UKAS FO	R STAGES 1	, 2, 3 & 4	OF THE	4 STAGE	CERTIFICATE	OF REOCCU	PATION	
Customer's name	NOLITO	ncu	MITE	D, ARD	w thom	st, AD	EN ROAD,		
& address	BIRMWG								
	Contact name: T. PEVOLLEM Telephone No: 07584028527								
Site address	FORMER	JDE	BANB	ver,	SOW	man R	DAD, E	SANBURY.	
	EXFORDSHIRE, OXIG 200								
& address	SAME								
	Site cuparvisor's na	ame at	ABIN	16	Tele	phone No: 5	EE ADDO	NE	
Contractor's representa will acknowledge the ou	Site supervisor's na tive who is responsibl stcome and findings re	e for confirming	their inspec	ction of the	Tele enclosure and	phone No: 5 / or work area is	s complete and	satisfactory and who	
will acknowledge the ou	tive who is responsibl atcome and findings re	e for confirming ported by the a	their inspector Ce technicia	ction of the	Tele	phone No: S	s complete and s	satisfactory and who	
Contractor's representa will acknowledge the ou Representative's na Areas to be assesse with asbestos has t	tive who is responsible atcome and findings re ame: T.P(ed where work	e for confirming ported by the a CVCRLE E~CC	their inspector ce technicia M	ction of the can	enclosure and	/ or work area is		satisfactory and who	
will acknowledge the ou Representative's na Areas to be assesse	tive who is responsible atcome and findings re ame: T.P(ed where work	e for confirming ported by the a CVCRLE E~CC	their inspector ce technicia M	ction of the can	enclosure and	/or work area is	s complete and s	satisfactory and who	
will acknowledge the ou Representative's na Areas to be assesse with asbestos has t	tive who is responsible atcome and findings re- arme: T. Pe ed where work aken place	e for confirming ported by the a CVCRLE E~CC G~CC	their inspec ce technicia <u>M</u> Sul	$\frac{2}{5} \in \mathbf{A}$	enclosure and	hor work area is	s complete and s	Satisfactory and who	
will acknowledge the ou Representative's na Areas to be assesse with asbestos has t	tive who is responsible atcome and findings re- arme: T. Pe ed where work aken place	e for confirming ported by the a ENCLE ENCL GOOD REMON	their inspec ce technicia Sul Sul	CE A	enclosure and with Bui while	Jor work area is The F Duch Johnsh	s complete and s	BAVEL	
will acknowledge the ou Representative's na Areas to be assesse	tive who is responsible atcome and findings re- arme: T. Pe ed where work aken place	e for confirming ported by the a ENCLE ENCL GOOD REMON	their inspec ce technicia S w Ful	CEA	- wit Bui White	rowork area is how for the second sec	Ewish(BAVEL	
will acknowledge the ou Representative's na Areas to be assesse with asbestos has t	tive who is responsible income and findings re- arme: T. P. ed where work aken place work undertaken work undertaken	e for confirming ported by the a CVCELE E~CL GOOD REMON Date(s) work	their inspec ce technicia S w Ful	CEA	Enclosure and Bui Bui WALE CONTRE tor: 29 Technicia	I or work area is The F Duch Setter ALD A ALD A ALD A I o / 18 n is not to pro	Ewish(Paver ous.	
will acknowledge the ou Representative's na Areas to be assesse with asbestos has to Brief description of The contractor's confirm enclosure and/or work a	tive who is responsibil treated indings re- ame: T. P. ed where work aken place work undertaken med that their inspection area is completed and to s work completed	e for confirming ported by the a CVCELE E~CL GOOD REMON Date(s) work	their inspec ce technicia M S M Ful carried out	by contract	Enclosure and Bui Bui WALE CONTRE tor: 29 Technicia	I or work area is The F Duch Setter ALD A ALD A ALD A I o / 18 n is not to pro	FIXED	BAVEL DUS.	



Report	10: J 180353		Issue No:	01	Page 02 of 06		
	1 OF 4	Prelimi	inary ch	eck of si	te condition and	ob complet	eness
1.1	Plan of work checked and entire work area defined/agreed including method of removal	Yes	No		COMMENTS:		
1.2	when enclosure not used Diagram or photos showing main work area features agreed with and signed by	(Yes)	No				
.3	contractor Is any asbestos to remain in work area not in the contract to be removed	Yes	No				
.4	Work area only (enclosures not used), clearly defined with physical barriers appropriately placed	Yes	NO	NA			
,5	Enclosure intact and constructed to encompass the defined work area with reasonable working space	Yes	No	DHAT			
.6	Airlocks / Baglocks suitably constructed and at least 1m x 1m x 2m (height)	Yes	No	AHA			
1.7	Air extraction unit(s) fitted to enclosure and operating	Yes	No	MA			
1.8	Hygiene facility still intact and operating, including air extraction	Yes	40				2(2)
1.9	Hygiene facility clean end compartment checked for cleanliness, hot / cold water and heating.	Yes	NO	-	REFER TO	2180	353/01
1.10	heating Hygiene facility shower area and dirty end compartments inspected and found clean and free from stored items	Yes	No		AS ASOVE		
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	AU				
1.13	Skip area free from obvious signs of contamination / ACM waste / debris	Yes	No	NA			
1.14	Areas immediately adjacent enclosure / work area free from obvious signs of contamination / ACM waste / debris	Yes	-110	-			1.1.1.1
1.15	Work area only (inspected from barrier edge) for identification of any remedial action requirements prior to entry	Yee	HO	NA			
1.16	Enclosure inspected via viewing panels and/or CCTV for any remedial action	Yes	HO	AHA			1
1.17	requirements prior to entry Any additional checks (details of additional checks to be recorded in comments section)	Yes	(No				
		Pass	ed)	Failed	Date: 30/1	0/18	Time: 07.28
	1 RESULT	C			Signature: A		-
	sment carried out by: A BC				Signature.		
ADDITIO	NAL COMMENTS: N/A				/		
		/	/				
	/						
QC/124-1	issue date: 28.02.14						the second second
		discound of		E Gull and	thout written ann	roval of Asb	estos Consultants Europe Ltd don Road, Grays, Essex, RM20 4D Itants.co.uk







Repor	t No: 1 120355			-	Issue No: DI	Page 04 of 06
STAGE	2 OF 4	Visual	inspec	tion		
2.1	Is there adequate lighting and essential equipment within the enclosure / work area	Ves	No		COMMENTS:	
2.2	Is the enclosure internal construction intact	(Yes)	No	AHA		
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 endosure I work area	Yes	No			
2.9	Are there surfaces within the endosure / 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 endosure / 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	,DUA		
2.14	Has each air extractor been fitted with new pre-filters	Yes	No	NA		
2.15	Stage 2 visual inspection duration:	21	nws			
STAGE	E 2 RESULT	Passe	E	ailed	Date: 30/10/18	Time: 08.00
THE EN		AGLOCK	(WHEN E		CONSTRUCTED) OR DESIGNATED WOR	KAREA IS FREE / NOLFREE
Asses	sment carried out by: A . B	OND			Signature:	~
ADDITI	ONAL COMMENTS: N/A					
			/	/		
	/					
	-					
C/124-1	Issue date: 25.02.14					
_					II, without written approval of Asb	



STAC	E 3 OF 4									_		PageOS	01 - 4	_
3.1		al control			Clearance a									
3.1	Estimated size				6	_m2+ (m2)	3.2			he enclosure		a dry Ye	s) ANO	
3.3	Is there eviden the use of spra	yed seala	int	ispect	Yes	No	3.4	Is air extr switched	off with pre-	filters cappe	enclosure ed and seal	I sealed (res) NO -		-417
3.5	Number of air s		a sur la com	-	1		3.6		of dust raisin			Eush		
-	Number of an I	neasuren	-		1				A DEPARTMENTS	ng activities		1/2 M	us	
Labla	antiana Damara		-0	Technic	al data &	Clearanc	e indi	cator a	ir sampl	ing deta	ils	-	2	
Microso	cation: Permane	nt / .Sete	Mob	ile> If Mol	bile Lab - Reg		560	ITS		Field Bl	ank (FB) n	ominated:	(Yes)) .AK
					286				ontrast tele		287			
Digital Thermometer / Barometer / Timepiece Stage micrometer serial number				piece	Sus					serial num	ber		5756	
Limit of quantification for following measurement						34	-	and the second	t slide seria	di successione de la companya de la		-	39	1
Analyet	's name: A	P	nng mea	surements	= 0.01	Enl	1000			-279		0		
		1				-	Sa	mpler's na	ime: A	BOA				-
Sampl		Samp		Pump Number	Cowl Number	Start Time		Finish Time	Duration (min)			1	Rate (I/min)	1
61	AS	12			1.00.044		-			Start	60min	120min	180min	Finis
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Sampl	Refer to		Temp	Press	★ Actual flow rate	Volu		Num		Number	C	alculated		eported
Numbe	Page No		(°C)	(mbar)	(l/min)	(Litr	es)	Fiel		Fibres		(f/ml)		(f/ml)
01	SPO	N	8	1011	8.0	480	/	201	02	5/	0	.002	10.	10
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Microso	pe calibrated	TYES	5	NO	-	NID	1 band	resolution:	5					-
	ne filters used:	0	10	-	ing 105 mm f		1	-		Gra	aticule dian		00	μm
									1304		Exposed		17.61	mm²
rocedure	oy certify that the e Document TPD	6 and the	e HSE's	HSG248	The above to	ests meet the	criteri	a set out i	n the interr	ational sta	ndard ISC	ants Europe / IEC 1702	Ltd Technic	al
OTE:														
#) UNC	ERTAINTY OF I	480 litres	EMENT: and 200	The lower	limit of quantil	ication for the	above	method is	stated in H	SG248 as at	bout 0.01 fi	bres/ml. Wh	nen the sam	ple volu
ur samp	le volumes below	480 litre	s and gr	aucule field	counts below	200, the lowe	er limit o	faccurate	measureme	ent will be him	gher.			
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.4	Is plant and / or equipment imme the area, free of ACM waste / de		Yes	No		
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.6	Reassurance air testing carried of deconstruction process	out during the	Yes	No		
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Asbestos Consultants Europe Ltd

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

Hygiene Facility Certificate of Inspection



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Hygiene Facility Certificate of Inspection

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Head Office Tel: 01375 366777 gistered office: Europa Park, London Road, Grays, Essex, RM20 4DB web: www. aceconsultants.co.uk



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Hygiene Facility Certificate of Inspection

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Report No: J180353 01 AS	Issue No: 01 Page 03 of 03	and the second second
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Contractor's representative acknowledgement		
have been advised by A . BOND that a h	hygiene facility certificate of inspection CAN / CANHOT BE ISS	VED
ontractor representative's Name: T. PENCELEY	34 34 10	
ontractor representative's Name: T. PENCELEM	Date: 30/10/18	
	Time: 11-20	
Signature: TDD		
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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

Environmental and Impacts and Benefits



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	Facility Type	Recyling	Material	EWC	Carrier	No. of	Total	Mean	Site to	CO ²
Code		Rate		Material	Code	Loads	Amount	Load	Facility	
		(%)					(tonnes)	(tonnes)	(km)	(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 sit	Total in site to facility column is total one way distance Total			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





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- 1.2 Statutory Notification
- 1.3 Construction Phase Plan
- 1.4 Supervision Requirements
- 1.5 Training Requirements
- 1.6 Safe Place of Work
- 1.7 Competency and Resources

2.0 DESCRIPTION

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- 2.2 Nature of Works
- 2.3. Programme & Mobilisation
- 2.4 Build Contract
- 2.5 Project Team
- 2.6 CDM Duty Holder Responsibilities
- 2.7 Existing Records & Plans

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 - 3.1.9 Temporary Works
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 - 3.3.2 Pollution
 - 3.3.3 Waste
 - 3.3.4 Existing Storage of Hazardous Materials
 - 3.3.5 Existing Structure Hazards & Previous Structural Modification
 - 3.3.6 Asbestos
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- 4.0 SPECIFIC HAZARDS & RISKS
- 5.0 DESIGN DEVELOPMENT & CONTROL (INCLUDING TEMPORARY WORKS)
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- 7.0 SITE WASTE MANAGEMENT PLAN

APPENDICES

- A L153 CDM 2015 Managing Health and Safety in Construction Guidance on Regulations
- B HSE F10 Notification to follow
- C L153 (Extract Appendix 3) Suggested Contents of the Construction Phase Plan
- D HSE Industry Guidance Documents (CDM 2015)
- E L153 (Extract Schedule 2) Minimum Welfare Facilities Required for Construction Sites
- F Topographical Survey and Existing Services
- G Unexploded Ordnance Reports and Guidance Documents
- H Ground Investigation
- I Designer's Preliminary Significant Risks
- J A&E Hospital Route Map
- K Example Temporary Works Register
- L Asbestos Information



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/subcontractors.
- 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, selfemployed 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 0203 595 4950 Tel: 2.5.2 **Development Manager:** Graftongate Developments Ltd Victory House 26-28 Ludgate Hill Birmingham **B3 1DX** Contact: Jamie Hockaday / Richard Smallman 0121 200 2886 Tel: **RPS** Consulting Services Ltd 2.5.3 Employers Agent/QS: 321 Bradford Street Digbeth Birmingham **B5 6ET**

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



PRE-CONSTRUCTION HEALTH AND SAFETY RECORD BANBURY 200, SOUTHAM ROAD, BANBURY

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

- 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
- 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.

<u>NB</u>: 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. <u>NB</u>: 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. <u>NB</u>: 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.

<u>NB</u>: 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.

<u>NB</u>: 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.

<u>NB:</u> 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.

<u>NB</u>: 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.

<u>NB:</u> 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.

<u>NB:</u> 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

RPS

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 (nonionising 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

<u>NB:</u> 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. <u>NB</u>: 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.

<u>NB:</u> 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. <u>NB:</u> 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.

<u>NB</u>: 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.

<u>NB</u>: 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 coordination 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: <u>http://www.netregs.org.uk/library_of_topics/checklists/construction_swmps.aspx</u>

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: <u>http://www.netregs.org.uk/library_of_topics/waste/duty_of_care.aspx</u>



PRE-CONSTRUCTION HEALTH AND SAFETY RECORD BANBURY 200, SOUTHAM ROAD, BANBURY



PROJECT MANAGEMENT, COST & BUILDING CONSULTANCY

Birmingham

London

Manchester

321 Bradford Street Birmingham B5 6ET 0121 622 8520 100 Cannon Street London EC4N 6EU 0203 691 0500 Carvers Warehouse, 77 Dale Street Manchester M1 2HG 0161 228 1800

Bournemouth

Streate Place St Peters Road Bournemouth BH1 2LT 0120 220 8000

Bristol

2420 The Quadrant Aztec West Almondsbury, Bristol BS32 4AQ 0145 485 3000

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
	Chronic permanent impact on human health	Gradual pollution of sensitive controlled water	Degradation of materials
Mild Consequence	Chronic temporary impact on human health	consitive 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		
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	



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

Standard Risk Matrix

Classified risks and likely action

Significance Level	Definition/Comments
	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.
Very High Risk	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.
	Harm is likely to arise to a designated receptor from an identified hazard.
High Risk	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.
	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	Х
Plausible (P)	3	
Unlikely (U)	2	
Very Unlikely (VU)	1	

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

