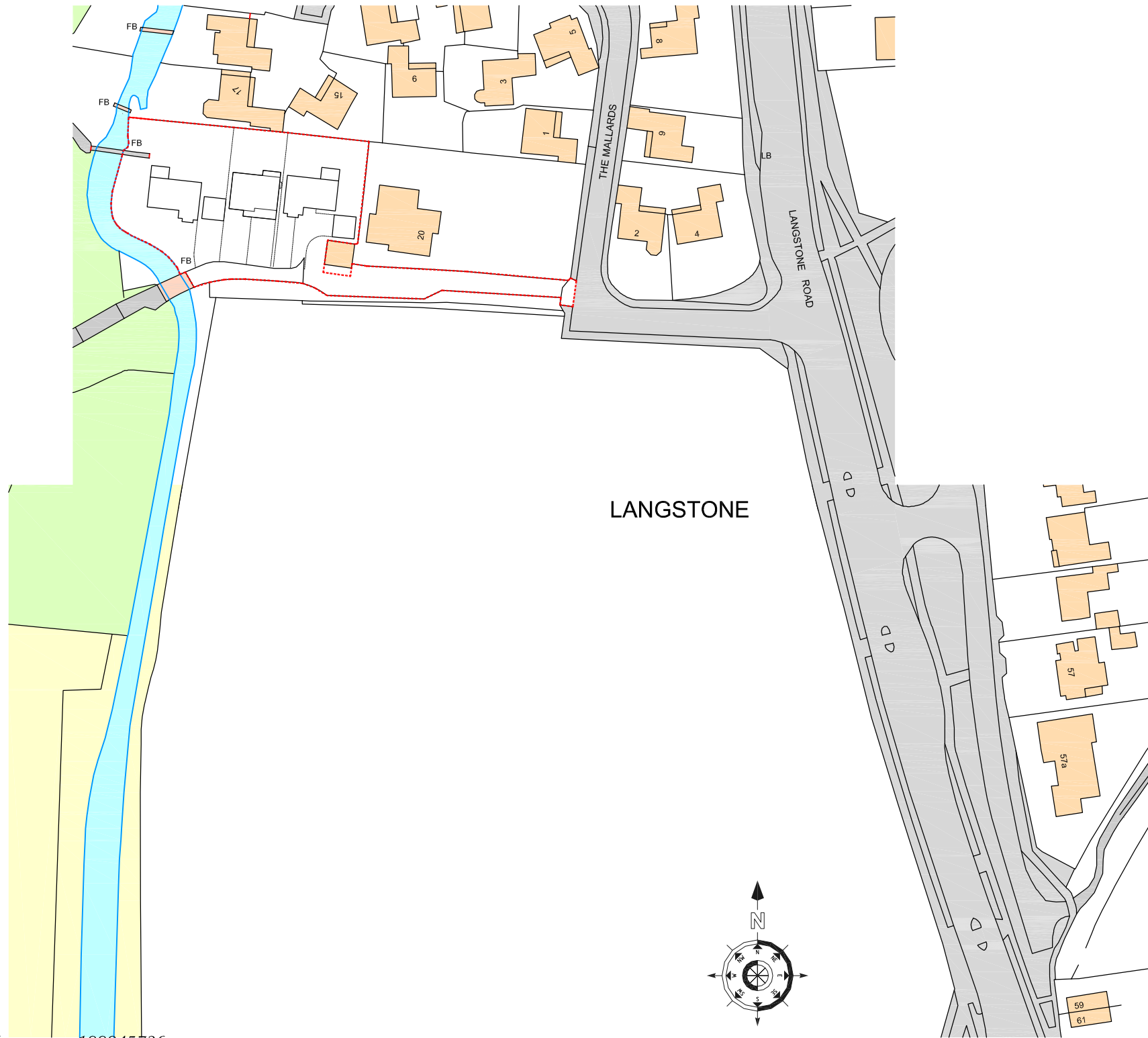


APPENDIX A: Proposed Redevelopment Plans





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PROJECT

*Proposed Development on Land at Southmere Farm
Langstone Road, Havant*

CLIENT

Langstone Estates

DRG TITLE

Location Plan

PROJECT NO.

17021

DRAWING NO.

105

SCALE

1:1250

REV

Rev	DESCRIPTION	Dwn / Date	Chk / Date
-	-	-	-
This drawing is copyright and must not be disclosed to third parties without permission Scaled dimensions are not to be used for construction			

4 Queensgate
Queens Road
Fareham
Hampshire
PO16 0NW

Tel: 01329 288911
Fax: 01329 221913
E-mail: admin@m2architecture.com

m2
architecture
architectural technologist

APPENDIX B: Site Investigation Plan





Ground Investigation Location Plan - Not to Scale

YourEnvironment

Chilgrove Business Centre, Chilgrove, Nr Chichester, PO18 9HU
 Tel: 01243 787150
 Email: info@yourenvironment.org

Site Name:

Southmere Farm, The Mallards,
 Havant, PO9 1SS

Client:

Knightsgate UK

Date:

Jan-19

Job No:

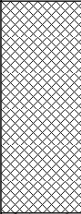
YE6611

APPENDIX C: Trial Pit and Borehole Logs



				Trial Pit Log			TrialPit No TP01 Sheet 1 of 1	
Project Name: Southmere Farm				Project No. YE6611		Co-ords: - Level:		Date 21/01/2019
Location: The Mallards, Havant, PO9 1QX						Dimensions (m): 0.40		Scale 1:25
Client: Knightsgate UK						Depth 1.00		Logged RG
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.15	ES					MADE GROUND: Soft/firm brown silty gravelly CLAY. Gravel is fine to large, angular to sub-angular of brick, flint and slate.	
	0.30	ES		0.30			MADE GROUND: Firm light brown slightly gravelly CLAY. Gravel is occasional, fine to medium of brick, flint and slate.	
	0.50	ES		0.55			MADE GROUND: Firm dark brown gravelly CLAY. Gravel is fine to medium of brick, sandstone and flint.	
	0.75	ES		0.70			Firm dark brown slightly gravelly CLAY. Gravel is fine to medium of mixed lithology.	
	1.00	ES		1.00			End of Pit at 1.00m	
								1
								2
								3
								4
								5
Remarks:								
Stability:								

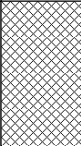


				Trial Pit Log			TrialPit No TP02 Sheet 1 of 1	
Project Name: Southmere Farm				Project No. YE6611		Co-ords: - Level:		Date 21/01/2019
Location: The Mallards, Havant, PO9 1QX						Dimensions (m): 0.40		Scale 1:25
Client: Knightsgate UK						Depth 1.00		Logged RG
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.15	ES					MADE GROUND: Soft/ firm brown slightly gravelly CLAY. Gravel is fine to large, angular to sub-angular of brick, flint and mixed lithology. Less gravelly at depth.	
	0.30	ES						
	0.50	ES						
	0.75	ES		0.70				
	1.00	ES		1.00				
							Firm dark brown slightly gravelly CLAY. Gravel is fine to medium of mixed lithology.	
							End of Pit at 1.00m	
Remarks:								
Stability:								



				Trial Pit Log			TrialPit No TP03 Sheet 1 of 1			
Project Name: Southmere Farm				Project No. YE6611		Co-ords: - Level:		Date 21/01/2019		
Location: The Mallards, Havant, PO9 1QX						Dimensions (m): 0.40		Scale 1:25		
Client: Knightsgate UK						Depth 1.00		Logged TI		
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description			
	Depth	Type	Results							
	0.15	ES					MADE GROUND: Soft/firm brown silty gravelly CLAY. Gravel is fine to large, angular to sub-angular of brick, flint and glass and mixed lithology.			
	0.30	ES		0.30				MADE GROUND: Firm light brown gravelly CLAY. Gravel is fine to medium, of brick, flint and tile.		
	0.50	ES		0.45					Firm light brown mottled orange slightly gravelly CLAY. Gravel is fine to medium of flint and mixed lithology.	
	0.75	ES		0.80						Firm brown/orange slightly gravelly CLAY. Gravel is fine of flint.
	1.00	ES		1.00			End of Pit at 1.00m			
Remarks:										
Stability:										



				Trial Pit Log			TrialPit No TP04 Sheet 1 of 1	
Project Name: Southmere Farm				Project No. YE6611		Co-ords: - Level:		Date 21/01/2019
Location: The Mallards, Havant, PO9 1QX						Dimensions (m): 0.40 0.40		Scale 1:25
Client: Knightsgate UK						Depth 0.80		Logged RG
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.15	ES		0.50			MADE GROUND: Soft/firm brown silty gravelly CLAY. Gravel is fine to large, angular to sub-angular of brick, flint and sandstone.	
	0.30	ES						
	0.50	ES		0.80			MADE GROUND: Firm dark brown silty gravelly CLAY. Gravel is fine to large, angular to sub-angular of brick, flint, plastic and rootlets. <i>Organic odour noted.</i>	
	0.75	ES						
	0.80	ES					End of Pit at 0.80m	
								1
								2
								3
								4
								5
Remarks:								
Stability:								



Borehole Log

Borehole No.

SA01

Sheet 1 of 2

Project Name: Southmere Farm.

Project No.
YE6610

Co-ords: 471442E - 105283N

Hole Type
CP

Location: The Mallards, Havant.

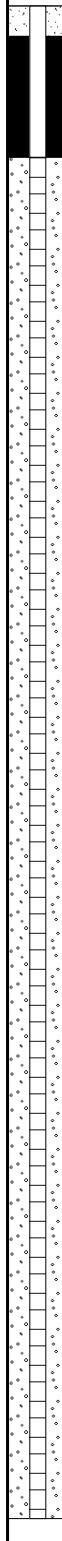
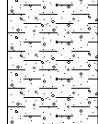
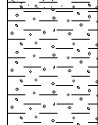
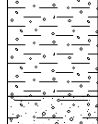
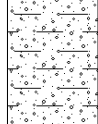
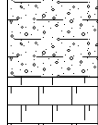
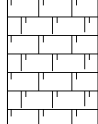
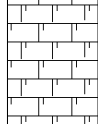
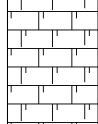
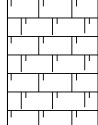
Level:

Scale
1:50

Client: Knightsgate UK.

Dates: 21/01/2019

Logged By
TJS

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.30	D		0.30			MADE GROUND: Dark brown gravelly CLAY. Gravel is fine to medium, angular to sub-angular of brick, ash, concrete and mixed lithology. Soft orange slightly sandy, slightly gravelly CLAY. Sand is fine to medium. Gravel is occasional, fine to medium of mixed lithology.	
		1.20 - 1.65	SPTL		1.20				1
		1.20	S	N=12 (1,1/2,2,4,4)					
		2.00 - 2.50	B					Firm light brown gravelly CLAY. Gravel is fine to medium of mixed lithology.	2
		2.00	C	N=30 (6,7/8,7,8,7)					
		2.60	D		2.60				
		3.00 - 3.50	B					Light brown becoming light grey clayey, sandy GRAVEL. Sand is fine to medium. Gravel is fine to coarse, angular to sub-angular of flint.	3
		3.00	C	N=18 (5,5/5,4,4,5)					
		4.00	S	N=8 (1,2/2,1,2,3)	4.10				4
		4.10	D						
		5.00 - 5.45	SPTL					CHALK recovered as light grey clayey, gravelly COBBLES. Gravel is medium to coarse, angular of chalk. Cobbles are of chalk. (LEWES NODULAR CHALK, SEAFORD CHALK, NEWHAVEN CHALK, CULVER CHALK AND PORTSDOWN CHALK FORMATIONS).	5
		5.00 - 6.00	B						6
		5.00	S	N=11 (2,1/2,3,3,3)					
		6.50 - 6.95	SPTL						7
		6.50	S	N=17 (2,3/4,4,4,5)					
		8.00 - 8.45	SPTL						8
		8.00	S	N=15 (1,2/3,4,4,4)					
		9.50 - 10.50	B						9
		9.50 - 9.95	SPTL						
		9.50	S	N=11 (1,2/3,2,3,3)					10

Continued on Next Sheet

Remarks

Service pit excavated to 1.20m.
Installation noted to 15.00m.
Water added from 3.00m to 4.00m.



Borehole Log

Borehole No.

SA01

Sheet 2 of 2

Project Name: Southmere Farm.

Project No.
YE6610

Co-ords: 471442E - 105283N

Hole Type
CP

Location: The Mallards, Havant.

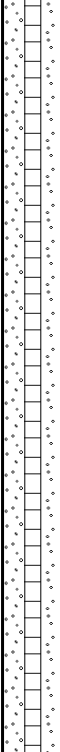
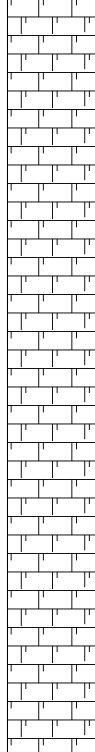
Level:

Scale
1:50

Client: Knightsgate UK.

Dates: 21/01/2019

Logged By
TJS

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
		Depth (m)	Type	Results						
		11.00 - 11.45	SPTL	N=11 (1,2/2,3,2,4)	15.00			CHALK recovered as light grey clayey, gravelly COBBLES. Gravel is medium to coarse, angular of chalk. Cobbles are of chalk. (LEWES NODULAR CHALK, SEAFORD CHALK, NEWHAVEN CHALK, CULVER CHALK AND PORTSDOWN CHALK FORMATIONS).	11	
		11.00	S							
		12.50 - 12.95	SPTL	N=19 (3,3/3,4,6,6)						
		12.50	S						12	
		14.00 - 14.45	SPTL	N=18 (1,2/3,4,5,6)						
		14.00 - 15.00	B							
		14.00	S						13	
		15.00 - 15.45	SPTL	N=34 (3,4/6,8,9,11)						
		15.00	S						14	
										15
										16
										17
										18
				19						
				20						

Remarks

Service pit excavated to 1.20m.
Installation noted to 15.00m.
Water added from 3.00m to 4.00m.



APPENDIX D: Soil Contamination Laboratory Results





ANALYTICAL TEST REPORT

Contract no: 76310(1)
Contract name: Southmere Farm
Client reference: YE6611
Clients name: YourEnvironment
Clients address: Chilgrove Business Centre
Chilgrove
West Sussex
PO18 9HU

Samples received: 23 January 2019

Analysis started: 23 January 2019

Analysis completed: 18 March 2019

Report issued: 18 March 2019

This is a supplementary report to report number 76310 issued 30 January 2019.

Notes: Opinions and interpretations expressed herein are outside the UKAS accreditation scope. Unless otherwise stated, Chemtech Environmental Ltd was not responsible for sampling. Methods, procedures and performance data are available on request. Results reported herein relate only to the material supplied to the laboratory. This report shall not be reproduced except in full, without prior written approval. Samples will be disposed of 6 weeks from initial receipt unless otherwise instructed. BTEX compounds are identified by retention time only and may include interference from co-eluting compounds.

Key: U UKAS accredited test
M MCERTS & UKAS accredited test
\$ Test carried out by an approved subcontractor
I/S Insufficient sample to carry out test
N/S Sample not suitable for testing
NAD No Asbestos Detected

Approved by:

Karan Campbell
Director

Chemtech Environmental Limited

SAMPLE INFORMATION

MCERTS (Soils):

Soil descriptions are only intended to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions. MCERTS accreditation applies for sand, clay and loam/topsoil, or combinations of these whether these are derived from naturally occurring soils or from made ground, as long as these materials constitute the major part of the sample. Other materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

All results are reported on a dry basis. Samples dried at no more than 30°C in a drying cabinet.

Analytical results are inclusive of stones.

Lab ref	Sample id	Depth (m)	Sample description	Material removed	% Removed	% Moisture
76310-1	TP01	0.30	Clay with Gravel	-	-	18.6
76310-2	TP01	0.75	Clay with Gravel	-	-	20.6
76310-3	TP02	0.15	Clay with Gravel	-	-	17.6
76310-4	TP02	0.75	Clay with Gravel	-	-	19.5
76310-5	TP03	0.50	Clay with Gravel	-	-	17.1
76310-6	TP03	1.00	Clay with Gravel	-	-	19.4
76310-7	TP04	0.30	Sandy Clay with Gravel	-	-	19.5
76310-8	TP04	0.80	Clay with Gravel	-	-	55.2

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SOILS

Lab number Sample id Depth (m) Date sampled			76310-1 TP01 0.30 21/01/2019	76310-2 TP01 0.75 21/01/2019	76310-3 TP02 0.15 21/01/2019	76310-4 TP02 0.75 21/01/2019	76310-5 TP03 0.50 21/01/2019	76310-6 TP03 1.00 21/01/2019
Test	Method	Units						
Arsenic (total)	CE127 ^M	mg/kg As	9.5	7.6	7.6	9.6	5.5	11
Cadmium (total)	CE127 ^M	mg/kg Cd	0.2	0.4	<0.2	0.7	<0.2	0.2
Chromium (total)	CE127 ^M	mg/kg Cr	58	87	50	56	47	69
Chromium (VI)	CE146	mg/kg CrVI	<1	<1	<1	<1	<1	<1
Copper (total)	CE127 ^M	mg/kg Cu	16	16	12	16	7.9	17
Lead (total)	CE127 ^M	mg/kg Pb	48	31	17	27	17	20
Mercury (total)	CE127 ^M	mg/kg Hg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel (total)	CE127 ^M	mg/kg Ni	26	22	22	43	13	36
Selenium (total)	CE127 ^M	mg/kg Se	0.8	0.7	0.6	1.4	0.4	0.9
Zinc (total)	CE127 ^M	mg/kg Zn	63	116	51	78	35	65
pH	CE004 ^M	units	7.9	7.2	7.0	7.2	7.1	7.4
Ammonia	CE144	mg/kg N	11	-	-	-	9.4	-
Nitrate (2:1 water soluble)	CE049 ^U	mg/l NO ₃	52	-	-	-	8.8	-
Nitrite (2:1 water soluble)	CE049	mg/l NO ₂	<10*	-	-	-	<1	-
Sulphate (2:1 water soluble)	CE061 ^M	mg/l SO ₄	21	13	8.2	18	12	151
Cyanide (total)	CE077	mg/kg CN	<1	<1	<1	<1	<1	<1
Phenols (total)	CE078	mg/kg PhOH	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Organic Carbon (TOC)	CE072 ^M	% w/w C	0.62	0.53	0.34	0.20	0.47	0.22
Estimate of OMC (calculated from TOC)	CE072 ^M	% w/w	1.07	0.91	0.59	0.34	0.81	0.38
PAH								
Naphthalene	CE087 ^M	mg/kg	0.09	<0.02	<0.02	<0.02	<0.02	<0.02
Acenaphthylene	CE087 ^M	mg/kg	0.09	<0.02	<0.02	<0.02	<0.02	<0.02
Acenaphthene	CE087 ^M	mg/kg	0.09	<0.02	<0.02	<0.02	<0.02	<0.02
Fluorene	CE087 ^U	mg/kg	0.13	<0.02	<0.02	<0.02	<0.02	<0.02
Phenanthrene	CE087 ^M	mg/kg	1.85	<0.02	<0.02	<0.02	<0.02	<0.02
Anthracene	CE087 ^U	mg/kg	0.55	<0.02	<0.02	<0.02	<0.02	<0.02
Fluoranthene	CE087 ^M	mg/kg	2.68	<0.02	<0.02	<0.02	<0.02	<0.02
Pyrene	CE087 ^M	mg/kg	2.13	<0.02	<0.02	<0.02	<0.02	<0.02
Benzo(a)anthracene	CE087 ^U	mg/kg	1.00	<0.02	<0.02	<0.02	<0.02	<0.02
Chrysene	CE087 ^M	mg/kg	1.06	<0.03	<0.03	<0.03	<0.03	<0.03
Benzo(b)fluoranthene	CE087 ^M	mg/kg	1.65	<0.02	<0.02	<0.02	<0.02	<0.02
Benzo(k)fluoranthene	CE087 ^M	mg/kg	0.68	<0.03	<0.03	<0.03	<0.03	<0.03
Benzo(a)pyrene	CE087 ^U	mg/kg	1.00	<0.02	<0.02	<0.02	<0.02	<0.02
Indeno(123cd)pyrene	CE087 ^M	mg/kg	0.67	<0.02	<0.02	<0.02	<0.02	<0.02
Dibenz(ah)anthracene	CE087 ^M	mg/kg	0.15	<0.02	<0.02	<0.02	<0.02	<0.02
Benzo(ghi)perylene	CE087 ^M	mg/kg	0.64	<0.02	<0.02	<0.02	<0.02	<0.02
PAH (total of USEPA 16)	CE087	mg/kg	14.4	<0.34	<0.34	<0.34	<0.34	<0.34
BTEX & TPH								
MTBE	CE057 ^U	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Benzene	CE057 ^U	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Toluene	CE057 ^U	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Chemtech Environmental Limited

SOILS

Lab number Sample id Depth (m) Date sampled			76310-1 TP01 0.30 21/01/2019	76310-2 TP01 0.75 21/01/2019	76310-3 TP02 0.15 21/01/2019	76310-4 TP02 0.75 21/01/2019	76310-5 TP03 0.50 21/01/2019	76310-6 TP03 1.00 21/01/2019
Test	Method	Units						
Ethylbenzene	CE057 ^U	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
m & p-Xylene	CE057 ^U	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
o-Xylene	CE057 ^U	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
VPH Aromatic (>EC5-EC7)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
VPH Aromatic (>EC7-EC8)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
VPH Aromatic (>EC8-EC10)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
EPH Aromatic (>EC10-EC12)	CE068	mg/kg	<1	<1	<1	<1	<1	<1
EPH Aromatic (>EC12-EC16)	CE068	mg/kg	<1	<1	<1	<1	<1	<1
EPH Aromatic (>EC16-EC21)	CE068	mg/kg	7	<1	<1	<1	<1	<1
EPH Aromatic (>EC21-EC35)	CE068	mg/kg	6	<1	<1	<1	<1	<1
EPH Aromatic (>EC35-EC44)	CE068	mg/kg	1	<1	<1	<1	<1	<1
VPH Aliphatic (>C5-C6)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
VPH Aliphatic (>C6-C8)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
VPH Aliphatic (>C8-C10)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EPH Aliphatic (>C10-C12)	CE068	mg/kg	<4	<4	<4	<4	<4	<4
EPH Aliphatic (>C12-C16)	CE068	mg/kg	<4	<4	<4	<4	<4	<4
EPH Aliphatic (>C16-C35)	CE068	mg/kg	20	<4	<4	<4	<4	<4
EPH Aliphatic (>C35-C44)	CE068	mg/kg	<10	<10	<10	<10	<10	<10
Subcontracted analysis								
Asbestos (qualitative)	\$	-	NAD	-	NAD	-	NAD	-
Asbestos (quantitative)	\$	% w/w	-	-	-	-	-	-

*Higher limit of detection quoted due to sample interference.

Chemtech Environmental Limited

SOILS

Lab number			76310-7	76310-8
Sample id			TP04	TP04
Depth (m)			0.30	0.80
Date sampled			21/01/2019	21/01/2019
Test	Method	Units		
Arsenic (total)	CE127 ^M	mg/kg As	8.5	3.7
Cadmium (total)	CE127 ^M	mg/kg Cd	0.7	6.2
Chromium (total)	CE127 ^M	mg/kg Cr	91	78
Chromium (VI)	CE146	mg/kg CrVI	<1	<1
Copper (total)	CE127 ^M	mg/kg Cu	85	97
Lead (total)	CE127 ^M	mg/kg Pb	123	317
Mercury (total)	CE127 ^M	mg/kg Hg	<0.5	<0.5
Nickel (total)	CE127 ^M	mg/kg Ni	21	25
Selenium (total)	CE127 ^M	mg/kg Se	0.5	2.0
Zinc (total)	CE127 ^M	mg/kg Zn	234	497
pH	CE004 ^M	units	8.6	8.6
Ammonia	CE144	mg/kg N	-	21
Nitrate (2:1 water soluble)	CE049 ^U	mg/l NO ₃	-	27
Nitrite (2:1 water soluble)	CE049	mg/l NO ₂	-	11
Sulphate (2:1 water soluble)	CE061 ^M	mg/l SO ₄	550	146
Cyanide (total)	CE077	mg/kg CN	<1	<1
Phenols (total)	CE078	mg/kg PhOH	<0.5	21
Total Organic Carbon (TOC)	CE072 ^M	% w/w C	1.89	6.87
Estimate of OMC (calculated from TOC)	CE072 ^M	% w/w	3.26	11.84
PAH				
Naphthalene	CE087 ^M	mg/kg	0.18	<0.02
Acenaphthylene	CE087 ^M	mg/kg	0.14	<0.02
Acenaphthene	CE087 ^M	mg/kg	0.15	0.38
Fluorene	CE087 ^U	mg/kg	0.26	0.15
Phenanthrene	CE087 ^M	mg/kg	3.03	1.29
Anthracene	CE087 ^U	mg/kg	0.64	0.42
Fluoranthene	CE087 ^M	mg/kg	3.68	2.79
Pyrene	CE087 ^M	mg/kg	2.86	2.24
Benzo(a)anthracene	CE087 ^U	mg/kg	1.05	0.91
Chrysene	CE087 ^M	mg/kg	1.34	0.93
Benzo(b)fluoranthene	CE087 ^M	mg/kg	1.95	1.44
Benzo(k)fluoranthene	CE087 ^M	mg/kg	0.83	0.45
Benzo(a)pyrene	CE087 ^U	mg/kg	1.05	0.72
Indeno(123cd)pyrene	CE087 ^M	mg/kg	0.72	0.54
Dibenz(ah)anthracene	CE087 ^M	mg/kg	0.14	0.19
Benzo(ghi)perylene	CE087 ^M	mg/kg	0.74	0.47
PAH (total of USEPA 16)	CE087	mg/kg	18.8	12.9
BTEX & TPH				
MTBE	CE057 ^U	mg/kg	<0.02	<0.02
Benzene	CE057 ^U	mg/kg	<0.01	<0.01
Toluene	CE057 ^U	mg/kg	<0.01	<0.01

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SOILS

Lab number			76310-7	76310-8
Sample id			TP04	TP04
Depth (m)			0.30	0.80
Date sampled			21/01/2019	21/01/2019
Test	Method	Units		
Ethylbenzene	CE057 ^U	mg/kg	<0.01	<0.01
m & p-Xylene	CE057 ^U	mg/kg	<0.02	<0.02
o-Xylene	CE057 ^U	mg/kg	<0.01	<0.01
VPH Aromatic (>EC5-EC7)	CE067	mg/kg	<0.01	<0.01
VPH Aromatic (>EC7-EC8)	CE067	mg/kg	<0.01	<0.01
VPH Aromatic (>EC8-EC10)	CE067	mg/kg	<0.01	<0.01
EPH Aromatic (>EC10-EC12)	CE068	mg/kg	<1	<1
EPH Aromatic (>EC12-EC16)	CE068	mg/kg	<1	<1
EPH Aromatic (>EC16-EC21)	CE068	mg/kg	10	7
EPH Aromatic (>EC21-EC35)	CE068	mg/kg	7	5
EPH Aromatic (>EC35-EC44)	CE068	mg/kg	1	<1
VPH Aliphatic (>C5-C6)	CE067	mg/kg	<0.1	<0.1
VPH Aliphatic (>C6-C8)	CE067	mg/kg	<0.1	<0.1
VPH Aliphatic (>C8-C10)	CE067	mg/kg	<0.1	<0.1
EPH Aliphatic (>C10-C12)	CE068	mg/kg	<4	<4
EPH Aliphatic (>C12-C16)	CE068	mg/kg	4	<4
EPH Aliphatic (>C16-C35)	CE068	mg/kg	56	237
EPH Aliphatic (>C35-C44)	CE068	mg/kg	31	129
Subcontracted analysis				
Asbestos (qualitative)	\$	-	Chrysotile	NAD
Asbestos (quantitative)	\$	% w/w	0.009	-

*Higher limit of detection quoted due to sample interference.

Chemtech Environmental Limited

METHOD DETAILS

METHOD	SOILS	METHOD SUMMARY	SAMPLE	STATUS	LOD	UNITS
CE127	Arsenic (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg As
CE127	Cadmium (total)	Aqua regia digest, ICP-MS	Dry	M	0.2	mg/kg Cd
CE127	Chromium (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg Cr
CE146	Chromium (VI)	Acid extraction, Colorimetry	Dry		1	mg/kg CrVI
CE127	Copper (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg Cu
CE127	Lead (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg Pb
CE127	Mercury (total)	Aqua regia digest, ICP-MS	Dry	M	0.5	mg/kg Hg
CE127	Nickel (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg Ni
CE127	Selenium (total)	Aqua regia digest, ICP-MS	Dry	M	0.3	mg/kg Se
CE127	Zinc (total)	Aqua regia digest, ICP-MS	Dry	M	5	mg/kg Zn
CE004	pH	Based on BS 1377, pH Meter	Wet	M	-	units
CE144	Ammonia	KCl extraction, Colorimetry	Wet		1	mg/kg N
CE049	Nitrate (2:1 water soluble)	Aqueous extraction, IC-COND	Dry	U	1	mg/l NO ₃
CE049	Nitrite (2:1 water soluble)	Aqueous extraction, IC-COND	Dry		1	mg/l NO ₂
CE061	Sulphate (2:1 water soluble)	Aqueous extraction, ICP-OES	Dry	M	10	mg/l SO ₄
CE077	Cyanide (total)	Extraction, Continuous Flow Colorimetry	Wet		1	mg/kg CN
CE078	Phenols (total)	Extraction, Continuous Flow Colorimetry	Wet		0.5	mg/kg PhOH
CE072	Total Organic Carbon (TOC)	Removal of IC by acidification, Carbon Analyser	Dry	M	0.1	% w/w C
CE072	Estimate of OMC (calculated from TOC)	Calculation from Total Organic Carbon	Dry	M	0.1	% w/w
CE087	Naphthalene	Solvent extraction, GC-MS	Wet	M	0.02	mg/kg
CE087	Acenaphthylene	Solvent extraction, GC-MS	Wet	M	0.02	mg/kg
CE087	Acenaphthene	Solvent extraction, GC-MS	Wet	M	0.02	mg/kg
CE087	Fluorene	Solvent extraction, GC-MS	Wet	U	0.02	mg/kg
CE087	Phenanthrene	Solvent extraction, GC-MS	Wet	M	0.02	mg/kg
CE087	Anthracene	Solvent extraction, GC-MS	Wet	U	0.02	mg/kg
CE087	Fluoranthene	Solvent extraction, GC-MS	Wet	M	0.02	mg/kg
CE087	Pyrene	Solvent extraction, GC-MS	Wet	M	0.02	mg/kg
CE087	Benzo(a)anthracene	Solvent extraction, GC-MS	Wet	U	0.02	mg/kg
CE087	Chrysene	Solvent extraction, GC-MS	Wet	M	0.03	mg/kg
CE087	Benzo(b)fluoranthene	Solvent extraction, GC-MS	Wet	M	0.02	mg/kg
CE087	Benzo(k)fluoranthene	Solvent extraction, GC-MS	Wet	M	0.03	mg/kg
CE087	Benzo(a)pyrene	Solvent extraction, GC-MS	Wet	U	0.02	mg/kg
CE087	Indeno(123cd)pyrene	Solvent extraction, GC-MS	Wet	M	0.02	mg/kg
CE087	Dibenz(ah)anthracene	Solvent extraction, GC-MS	Wet	M	0.02	mg/kg
CE087	Benzo(ghi)perylene	Solvent extraction, GC-MS	Wet	M	0.02	mg/kg
CE087	PAH (total of USEPA 16)	Solvent extraction, GC-MS	Wet		0.34	mg/kg
CE057	MTBE	Headspace GC-FID	Wet	U	0.02	mg/kg
CE057	Benzene	Headspace GC-FID	Wet	U	0.01	mg/kg
CE057	Toluene	Headspace GC-FID	Wet	U	0.01	mg/kg
CE057	Ethylbenzene	Headspace GC-FID	Wet	U	0.01	mg/kg
CE057	m & p-Xylene	Headspace GC-FID	Wet	U	0.02	mg/kg
CE057	o-Xylene	Headspace GC-FID	Wet	U	0.01	mg/kg
CE067	VPH Aromatic (>EC5-EC7)	Headspace GC-FID	Wet		0.01	mg/kg
CE067	VPH Aromatic (>EC7-EC8)	Headspace GC-FID	Wet		0.01	mg/kg

Chemtech Environmental Limited

METHOD DETAILS

METHOD	SOILS	METHOD SUMMARY	SAMPLE	STATUS	LOD	UNITS
CE067	VPH Aromatic (>EC8-EC10)	Headspace GC-FID	Wet		0.01	mg/kg
CE068	EPH Aromatic (>EC10-EC12)	Solvent extraction, GC-FID	Wet		1	mg/kg
CE068	EPH Aromatic (>EC12-EC16)	Solvent extraction, GC-FID	Wet		1	mg/kg
CE068	EPH Aromatic (>EC16-EC21)	Solvent extraction, GC-FID	Wet		1	mg/kg
CE068	EPH Aromatic (>EC21-EC35)	Solvent extraction, GC-FID	Wet		1	mg/kg
CE068	EPH Aromatic (>EC35-EC44)	Solvent extraction, GC-FID	Wet		1	mg/kg
CE067	VPH Aliphatic (>C5-C6)	Headspace GC-FID	Wet		0.1	mg/kg
CE067	VPH Aliphatic (>C6-C8)	Headspace GC-FID	Wet		0.1	mg/kg
CE067	VPH Aliphatic (>C8-C10)	Headspace GC-FID	Wet		0.1	mg/kg
CE068	EPH Aliphatic (>C10-C12)	Solvent extraction, GC-FID	Wet		4	mg/kg
CE068	EPH Aliphatic (>C12-C16)	Solvent extraction, GC-FID	Wet		4	mg/kg
CE068	EPH Aliphatic (>C16-C35)	Solvent extraction, GC-FID	Wet		4	mg/kg
CE068	EPH Aliphatic (>C35-C44)	Solvent extraction, GC-FID	Wet		10	mg/kg
\$	Asbestos (qualitative)	HSG 248, Microscopy	Dry	U	-	-
\$	Asbestos (quantitative)	HSG 248, Microscopy & Gravimetry	Dry	U	0.001	% w/w

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DEVIATING SAMPLE INFORMATION

Comments

Sample deviation is determined in accordance with the UKAS note "Guidance on Deviating Samples" and based on reference standards and laboratory trials.

For samples identified as deviating, test result(s) may be compromised and may not be representative of the sample at the time of sampling.

Chemtech Environmental Ltd cannot be held responsible for the integrity of sample(s) received if Chemtech Environmental Ltd did not undertake the sampling. Such samples may be deviating.

Key

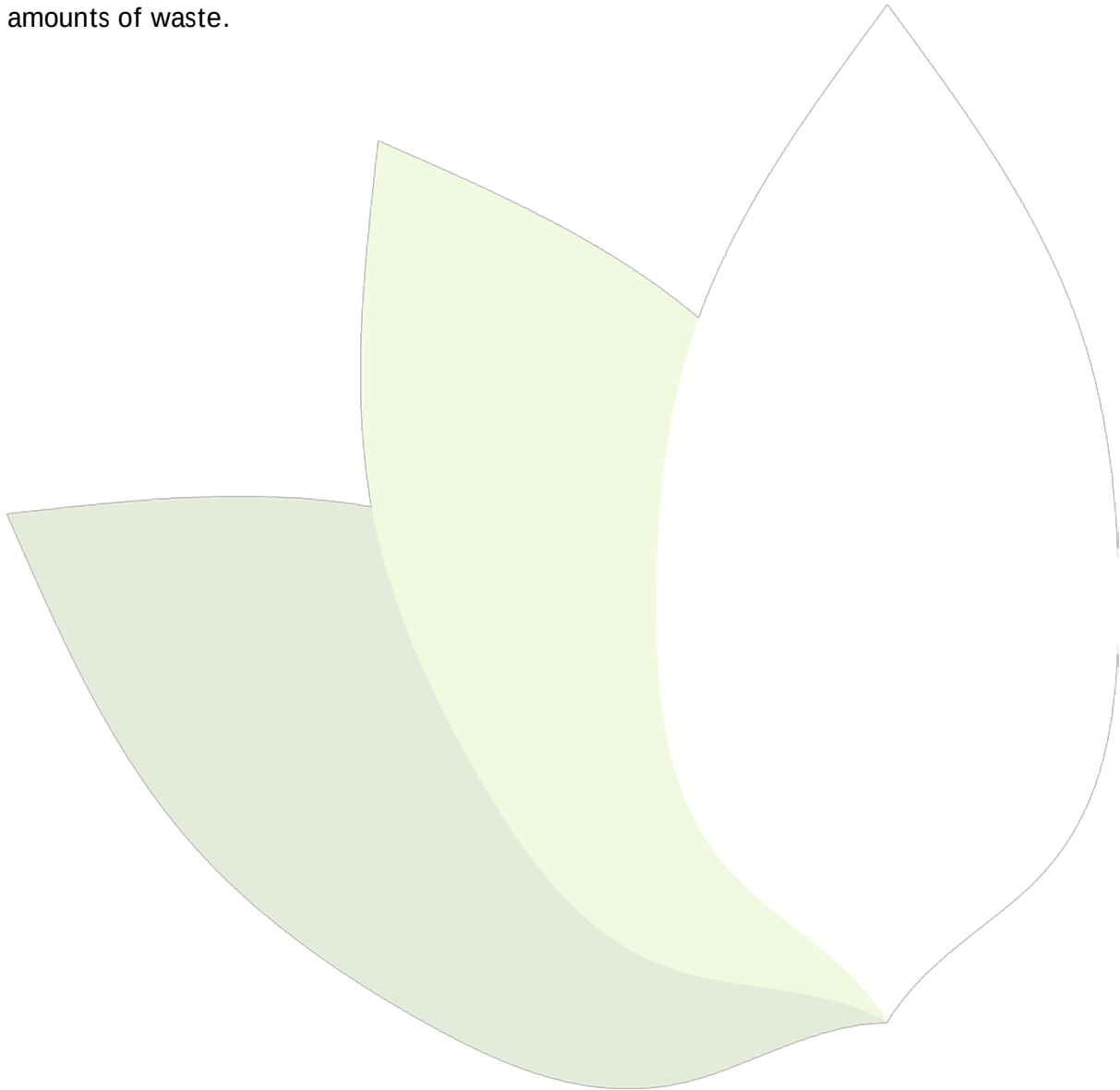
N	No (not deviating sample)
Y	Yes (deviating sample)
NSD	Sampling date not provided
NST	Sampling time not provided (waters only)
EHT	Sample exceeded holding time(s)
IC	Sample not received in appropriate containers
HP	Headspace present in sample container
NCF	Sample not chemically fixed (where appropriate)
OR	Other (specify)

Lab ref	Sample id	Depth (m)	Deviating	Tests (Reason for deviation)
76310-1	TP01	0.30	N	
76310-2	TP01	0.75	N	
76310-3	TP02	0.15	N	
76310-4	TP02	0.75	N	
76310-5	TP03	0.50	N	
76310-6	TP03	1.00	N	
76310-7	TP04	0.30	N	
76310-8	TP04	0.80	N	

APPENDIX E: Asbestos Consultant Report/Comments

During future excavations, an experienced asbestos aware and competent person should be in attendance to hand pick any further asbestos risings and dispose accordingly.

Should larger pockets of waste be encountered, or further suspect material arise, works should cease until the material is sampled to confirm / discount the presence of asbestos or further consideration taken regarding the removal and disposal process for large amounts of waste.





Asbestos Refurbishment Survey

In accordance with HSG264

at

Southmere Farm

Havant

Hants

PO9 1SS



371

Carried out on behalf of: Knightsgate (UK) Ltd

Project Number: S2842C

Printed: 09/04/2019 By: Merryhill Asbestos Testing and Consulting Limited. Using Multibase software.



Merryhill Asbestos Testing and Consulting Limited

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Merryhill Asbestos Testing and Consulting Limited	Project Number:	S2842C
	Survey Date:	05 April 2019
	Printed On:	09 April 2019
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SECTION ONE

EXECUTIVE SUMMARY

Merryhill Asbestos Testing and Consulting Limited

Executive Summary

Merryhill Asbestos Testing and Consulting Limited were instructed by m2architecture to carry out an Asbestos Refurbishment Survey to identify any ACM's on the surface of the soil on site to inspect for the presence of asbestos containing materials (ACMs) at the following site:

Southmere Farm, Havant, PO9 1SS

The survey was carried out on 5th April 2019 by Gary Lewis on behalf of Merryhill Asbestos Testing and Consulting Ltd, Merryhill House, Budds Lane, Romsey, SO51 0HA, as instructed by Malcolm Wilkes of m2architecture on behalf of Knightgate (UK) Ltd.

Comment

The aim of the survey was to locate suspect materials lying on the surface, take samples for analysis to confirm or discount the presence of asbestos prior to a future building development.

Material Risks

Risk Band: Low Risk

Area	Asbestos Type	Product Name	Action
External, Ground floor, LHS of footings	Chrysotile	Cement Sheet Debris	Removal under HSE guidelines
External, Ground floor, Site Entrance	Chrysotile	Cement Sheet Debris	Removal under HSE guidelines
External, Ground floor, Adjacent to garage	Chrysotile	Cement Sheet Debris	Removal under HSE guidelines
External, Ground floor, Rear RHS of site	Chrysotile	Cement pipe and debris	Removal under HSE guidelines
External, Ground floor, Rear RHS of site	Chrysotile	Cement Sheet Debris	Removal under HSE guidelines
External, Ground floor, Adjacent stream	Chrysotile	Cement Sheet Debris	Removal under HSE guidelines

Client Name:	Knightgate (UK) Ltd	Project Number:	S2842C
		Survey Date:	05 April 2019
Site Address:	Southmere Farm. Havant, Hants, PO9 1SS	Printed On:	09 April 2019
		Site Description:	Page 1 of 1

SECTION TWO

SURVEY OBJECTIVES

Merryhill Asbestos Testing and Consulting Limited

Survey Objectives

- 1 Produce a report, in a database format, indicating areas containing identified and suspected asbestos based materials, including photographic records of asbestos occurrences where possible.
- 2 The survey report will indicate areas containing identified and suspected ACM's, especially those requiring urgent attention, including photographs of sample points where practicable and give recommendations for their disposal/management in accordance with current legislation.

To include a risk assessment for each individual Sample.
- 3 Carry out a Refurbishment/Demolition Survey in accordance with HSE publication HSG264.

If the site is to be demolished the report will help the client to comply with the Construction (Design and Management) Regulations.

If the site is for partial refurbishment or works such as new cable runs being installed the same applies as above.

A Refurbishment/Demolition Survey involves making holes in surfaces and Merryhill Asbestos Testing and Consulting Ltd will not make them good nor clean-up any arisings since it is expected that the areas will be empty and ready for the refurbishment works to be commenced.
- 4 The object of the survey is to locate any ACM's and give recommendations for their disposal in accordance with current legislation.

The report will indicate areas containing identified and suspected ACM's including photographs of sample points where practicable.

If any area has not been surveyed it MUST be presumed to contain asbestos until such time as proven to the contrary.
- 5 The survey report will contain plans of the building provided by Merryhill Asbestos Testing and Consulting Ltd.

Areas may have been renamed for the purposes of the survey if so, they will be clearly marked.

Plans prepared by Merryhill Asbestos Testing and Consulting Ltd are not to scale and should be treated as rough sketches to provide general location references only.
- 6 This report only covers the areas for which a survey has been requested. If ACM's are present in other areas, no matter how obvious, they may not be recorded in the survey.

Client Name:	Knightsgate (UK) Ltd	Project Number:	S2842C
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Site Address:	Southmere Farm, Havant, Hants, PO9 1SS	Printed On:	09 April 2019
		Survey Objectives:	Page 1 of 1

SECTION THREE

SURVEY TECHNIQUES

Merryhill Asbestos Testing and Consulting Limited

Survey Techniques

- 1 Materials of a similar type were only occasionally sampled and it was assumed that other surfaces identical to where the sample was taken, was of a similar composition.
- 2 Photographs were taken at all of the sample locations (unless otherwise stated).
- 3 All samples will be sent to a laboratory for bulk analysis. Merryhill Asbestos Testing & Consulting Ltd do not hold UKAS accreditation for bulk analysis. This service is provided by a third party company who hold UKAS accreditation to ISO17025 for bulk analysis.
- 4 All Asbestos Bulk Sample Analysis is conducted by using Polarised Light and Dispersion Staining Techniques. Dispersion Staining is used to describe the colour effects produced when a transparent colourless particle or fibre is immersed in a liquid having a refractive index near to that of the particle or fibre, and is viewed under a microscope using transmitted white light (based on publication HSG264).
- 5 Previous asbestos removal works.

Works undertaken more than ten years ago will not have been carried out to the standards of today and debris should be expected, albeit in possibly small amounts, below new coverings such as insulation in plant rooms.

It is not always possible or practical, even with a Pre-Demolition/Major Refurbishment survey to locate these areas.

Client Name:	Knightsgate (UK) Ltd	Project Number:	S2842C
		Survey Date:	05 April 2019
Site Address:	Southmere Farm, Havant, Hants, PO9 1SS	Printed On:	09 April 2019
		Survey Technique:	Page 1 of 1

SECTION FOUR

SURVEY CAVEAT

Merryhill Asbestos Testing and Consulting Limited

Survey Caveat

- 1 The object of the survey is to identify any ACM's and suggest recommendations for their management/disposal in accordance with the client's scope of works. Produce a report, in database format, including photographs of sample points where practicable and give recommendations for their disposal/management in accordance with current legislation.

Any areas not accessed or excluded from the survey scope will be identified within Excluded Areas Section of the report.

Client Name:	Knightsgate (UK) Ltd	Project Number:	S2842C
		Survey Date:	05 April 2019
Site Address:	Southmere Farm, Havant, Hants, PO9 1SS	Printed On:	09 April 2019
		Survey Caveat:	Page 1 of 1

SECTION FIVE

SURVEY NOTES

Merryhill Asbestos Testing and Consulting Limited

Survey Notes

- 1 No air monitoring was carried out whilst the survey was undertaken and therefore care was taken not to cause disturbance of fibre or contamination of clean surfaces.
- 2 This report has been written with reference to the various Guidance Notes etc, issued, and current at the date of this report and describes circumstances at the site on the date the investigation took place. It should not be relied up onto represent conditions at a later date.
- 3 Any person undertaking work within the buildings should be told of the presence of asbestos. This briefing also applies to any other person associated with the site, including staff, sub-contractors and others.
- 4 The diagrams in the report are not to scale and are illustrative only to indicate approximate locations. The descriptions used are for location identification purposes
- 5 All the recommendations described in this report are based upon assumptions made after consideration of the type of material, condition of the material, its location, analysis result and type of use the area is thought to be subjected to. However, statutory authorities or others, could require amendments based on local knowledge, change in legislation, change in use or indeed, other conditions of criteria.
- 6 Equipment, machinery, ducting etc were not moved, opened up or examined for the purpose of this investigation except in the odd occasion where hatches were available.
- 7 Insurance for 'Work with Asbestos'

Any contractor employed by you to 'work with asbestos' should be able to provide the schedule to his employer's liability insurance as evidence of adequate insurance cover for 'work with asbestos materials'.

All contractors are required to possess Employers and Public Liability Insurance appropriate to their activities. In respect of insurance for asbestos related work, additional cover is required, and examination of the contractors insurance schedule will reveal the presence of this additional cover.

- 8 This survey report may not under and circumstances be used by a third party without express written permission of Merryhill Asbestos Testing and Consulting Ltd.

Merryhill Asbestos Testing and Consulting Ltd shall not be responsible for any loss, damage, expense or injury of any kind whatsoever, consequential to or otherwise arising out of or owing to any defects/deficiencies of any sort in the survey report; whether such defects or deficiencies are caused by the negligence of the company, its employees, agents or otherwise.

- 9 Our liability for failure to detect all ACM's within the property (which gives rise to legal time/cost extension) be limited to ten times the survey contract value.

Our Professional Indemnity Insurance is limited to £5,000,000 (five million pounds).

Future inspections of ACM's remaining in situ must be carried out by a competent person.

- 10 Mechanical and Electrical equipment and fittings such as electrical switches and boards, lift machinery, telecoms equipment and any items of plant will not be surveyed without a 'Safe to Work' certificate.

All such items should be regarded as contaminated with asbestos and treated as such.

Client Name:	Knightsgate (UK) Ltd	Project Number:	S2842C
		Survey Date:	05 April 2019
Site Address:	Southmere Farm, Havant, Hants, PO9 1SS	Printed On:	09 April 2019
		Survey Objectives:	Page 1 of 2

Merryhill Asbestos Testing and Consulting Limited

Survey Notes

- 11 Under the terms of UKAS Accreditation we are unable to include our Priority Assessment or Risk score within the scope of such Accreditation.
- The findings are therefore purely the assessment of the Surveyor with, where possible, input from personnel on site.
- 12 Unless specifically stated to the contrary only the specified building has been surveyed. The site land around the building has not been surveyed unless covered within the scope of the survey.
- ACM's in the areas not specified covered by this report are outside the scope of the survey.
- 13 Survey reports are provided to and for the benefit of the Client exclusively.
- Merryhill Asbestos Testing and Consulting Ltd shall not be liable to any third party who seeks to use this survey report.
- Merryhill Asbestos Testing and Consulting Ltd accepts no responsibility or liability for the consequences of this survey report if it is used for a purpose other than that for which it was commissioned.
- 14 If additional information becomes available which may affect our comments, conclusions or recommendations Merryhill Asbestos Testing and Consulting Ltd reserves the right to review the information, reassess any new, potential concerns and modify our opinions accordingly.

Client Name:	Knightsgate (UK) Ltd	Project Number:	S2842C
		Survey Date:	05 April 2019
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		Survey Objectives:	Page 2 of 2

SECTION SIX

MATERIAL ASSESSMENT (PHOTO SMALL)

Merryhill Asbestos Testing and Consulting Limited

Material assessment (Photo small)

Sorted by: Location ID

Site Address:

Southmere Farm, Havant, Hants, PO9 1SS

Client Name:

Knightsgate (UK) Ltd

Project Number:

S2842C

Area/ Floor/ Room/ Product: External: Ground floor: Adjacent stream: Cement Sheet Debris

Inspection Date: 05/04/2019

Next Inspection: 05/10/2019

Survey Type: RS

Location ID: 53390

Location Ref: 1

Product Type: Asbestos cement



Action:
Removal under HSE guidelines

Damage: High damage: Visible debris

Treatment: Asbestos cement sheets etc

Material Comments:

Small amount - similar identified across the site

Asbestos Type: Chrysotile

Identification: Identified

Quantity: 0.1m²

Material Risk Score: 6

Material Risk Band: Low Risk

Priority Risk Score: N/A

Area/ Floor/ Room/ Product: External: Ground floor: Rear RHS of site: Cement Sheet Debris

Inspection Date: 05/04/2019

Next Inspection: 05/10/2019

Survey Type: RS

Location ID: 53391

Location Ref: 2

Product Type: Asbestos cement



Action:
Removal under HSE guidelines

Damage: High damage: Visible debris

Treatment: Asbestos cement sheets etc

Material Comments:

Small amount - similar identified across the site

Asbestos Type: Chrysotile

Identification: Identified

Quantity: 0.1m²

Material Risk Score: 6

Material Risk Band: Low Risk

Priority Risk Score: N/A

Area/ Floor/ Room/ Product: External: Ground floor: Rear RHS of site: Cement pipe and debris

Inspection Date: 05/04/2019

Next Inspection: 05/10/2019

Survey Type: RS

Location ID: 53392

Location Ref: 3

Product Type: Asbestos cement



Action:
Removal under HSE guidelines

Damage: High damage: Visible debris

Treatment: Asbestos cement sheets etc

Material Comments:

Asbestos Type: Chrysotile

Identification: Identified

Quantity: 0.25m²

Material Risk Score: 6

Material Risk Band: Low Risk

Priority Risk Score: N/A

Merryhill Asbestos Testing and Consulting Limited

Material assessment (Photo small)

Sorted by: Location ID

Site Address:

Southmere Farm, Havant, Hants, PO9 1SS

Client Name:

Knightsgate (UK) Ltd

Project Number:

S2842C

Area/ Floor/ Room/ Product:

External: Ground floor: Front RHS of site: Tile Debris

Inspection Date:

05/04/2019

Next Inspection:

Not Applicable

Survey Type:

RS

Location ID:

53393

Location Ref:

4

Product Type:

NADIS



Action:

No Action Required

Material Comments:

Small amount - similar identified across the site

Damage:

NADIS

Treatment:

NADIS

Asbestos Type:

NADIS

Identification:

Identified

Quantity:

0.1m²

Material Risk Score:

0

Material Risk Band:

NADIS

Priority Risk Score:

N/A

Area/ Floor/ Room/ Product:

External: Ground floor: Adjacent to garage: Cement Sheet Debris

Inspection Date:

05/04/2019

Next Inspection:

05/10/2019

Survey Type:

RS

Location ID:

53394

Location Ref:

5

Product Type:

Asbestos cement



Action:

Removal under HSE guidelines

Material Comments:

Small amount - similar identified across the site

Damage:

High damage: Visible debris

Treatment:

Asbestos cement sheets etc

Asbestos Type:

Chrysotile

Identification:

Identified

Quantity:

0.1m²

Material Risk Score:

6

Material Risk Band:

Low Risk

Priority Risk Score:

N/A

Area/ Floor/ Room/ Product:

External: Ground floor: Mid RHS of site: Cement Sheet Debris

Inspection Date:

05/04/2019

Next Inspection:

Not Applicable

Survey Type:

RS

Location ID:

53395

Location Ref:

6

Product Type:

NADIS



Action:

No Action Required

Material Comments:

Small amount - similar identified across the site

Damage:

NADIS

Treatment:

NADIS

Asbestos Type:

NADIS

Identification:

Identified

Quantity:

0.1m²

Material Risk Score:

0

Material Risk Band:

NADIS

Priority Risk Score:

N/A

Merryhill Asbestos Testing and Consulting Limited

Material assessment (Photo small)

Sorted by: Location ID

Site Address:

Southmere Farm, Havant, Hants, PO9 1SS

Client Name:

Knightsgate (UK) Ltd

Project Number:

S2842C

Area/ Floor/ Room/ Product: External: Ground floor: RHS of footings: Cement Debris

Inspection Date: 05/04/2019

Next Inspection: Not Applicable

Survey Type: RS

Location ID: 53396

Location Ref: 7

Product Type: NADIS



Action:

No Action Required

Damage: NADIS

Treatment: NADIS

Asbestos Type: NADIS

Identification: Identified

Quantity: 0.1m²

Material Comments:

Small amount - similar identified across the site

Material Risk Score: 0

Material Risk Band: NADIS

Priority Risk Score: N/A

Area/ Floor/ Room/ Product: External: Ground floor: Site Entrance: Cement Sheet Debris

Inspection Date: 05/04/2019

Next Inspection: 05/10/2019

Survey Type: RS

Location ID: 53397

Location Ref: 8

Product Type: Asbestos cement



Action:

Removal under HSE guidelines

Damage: High damage: Visible debris

Treatment: Asbestos cement sheets etc

Asbestos Type: Chrysotile

Identification: Identified

Quantity: 0.1m²

Material Comments:

Small amount - similar identified across the site

Material Risk Score: 6

Material Risk Band: Low Risk

Priority Risk Score: N/A

Area/ Floor/ Room/ Product: External: Ground floor: Mid LHS of site: Tile Debris

Inspection Date: 05/04/2019

Next Inspection: Not Applicable

Survey Type: RS

Location ID: 53398

Location Ref: 9

Product Type: NADIS



Action:

No Action Required

Damage: NADIS

Treatment: NADIS

Asbestos Type: NADIS

Identification: Identified

Quantity: 0.1m²

Material Comments:

Small amount - similar identified across the site

Material Risk Score: 0

Material Risk Band: NADIS

Priority Risk Score: N/A

Merryhill Asbestos Testing and Consulting Limited

Material assessment (Photo small)

Sorted by: Location ID

Site Address:

Southmere Farm, Havant, Hants, PO9 1SS

Client Name:

Knightsgate (UK) Ltd

Project Number:

S2842C

Area/ Floor/ Room/ Product:

External: Ground floor: LHS of footings: Cement Sheet Debris

Inspection Date:

05/04/2019

Next Inspection:

05/10/2019

Survey Type:

RS

Location ID:

53399

Location Ref:

10

Product Type:

Asbestos cement

Damage:

High damage

Treatment:

Asbestos cement sheets etc

Asbestos Type:

Chrysotile

Identification:

Identified

Quantity:

0.1m²



Action:

Removal under HSE guidelines

Material Comments:

Small amount - similar identified across the site

Material Risk Score:

6

Material Risk Band:

Low Risk

Priority Risk Score:

N/A

Merryhill Asbestos Testing and Consulting Limited

Material Assessment and Algorithm

The material assessment is an assessment of the condition of the ACM, or the presumed ACM, and the likelihood of fibres being released if disturbed. This material assessment will give an initial guide to the priority for management, as it will identify the materials, which will most readily release airborne fibres if disturbed.

HSG264 recommends the use of an algorithm to carry out material assessments. Scores are then totaled to give a material assessment score. The use of algorithms is not infallible, but the assessment process is clear for all to see, so if discrepancies arise, it should be possible to back track through the assessment process to find the root of the error.

The four parameters considered within HSG264 are:

1. Product type
2. Extent of damage
3. Surface treatment
4. Asbestos type

Each of the parameters is scored and added to give a total score between 2 and 12.

- High risk: 10 or more
- Medium risk: between 7 and 9
- Low risk: between 5 and 6
- Very low risk: 4 or less

Product Type	Risk Score
Plastics, resins, mastics, roofing felts, vinyl floor tiles, semi rigid paints, decorative finishes, asbestos cement	1
AIB, mill boards, low density insulation boards, asbestos textiles, asbestos paper and felt	2
Thermal insulation, pipe and boiler lagging, sprayed asbestos, loose asbestos, asbestos mattresses and packing	3

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Damage Assessment	Risk Score
NADIS, good condition/ no visible damage	0
Low damage	1
Medium damage	2
High damage	3

Treatment Assessment	Risk Score
NADIS, composite materials, reinforced plastics, resins, vinyl tiles	0
Enclosed sprays, AIB and untreated AC	1
Sealed AIB, encapsulated lagging and spray coating	2
Unsealed lagging and spray	3

Asbestos Type	Risk Score
NADIS (no asbestos detected in sample)	0
Chrysotile	1
Actinolite, Amosite, Anthophyllite, Chrysotile/Amosite, Tremolite	2
Crocidolite, Amosite/Chrysotile/Crocidolite, Chrysotile/Crocidolite, Crocidolite/Amosite	3

Risk Scores:

1 = low
2 = medium
3 = high

AIB: asbestos insulation board

AC: asbestos cement

NADIS: no asbestos detected in sample

SECTION SEVEN

ASBESTOS REGISTER

Asbestos Register

Site Name: Southmere Farm

Project Number: S2842C

Location	Product type and name	Extent	Accessibility	Condition	Surface treatment	Asbestos Type	Sample	Sample no	Material Risk Score	Priority Risk Score	Total Score
External, Ground floor, Adjacent stream	Asbestos cement Cement Sheet Debris	0.1m ²	Easy Accessibility	High damage: Visible debris	Asbestos cement sheets etc	Chrysotile	Identified	1	6		N/A
External, Ground floor, LHS of footings	Asbestos cement Cement Sheet Debris	0.1m ²	Easy Accessibility	High damage	Asbestos cement sheets etc	Chrysotile	Identified	10	6		N/A
External, Ground floor, Rear RHS of site	Asbestos cement Cement Sheet Debris	0.1m ²	Easy Accessibility	High damage: Visible debris	Asbestos cement sheets etc	Chrysotile	Identified	2	6		N/A
External, Ground floor, Rear RHS of site	Asbestos cement Cement pipe and debris	0.25m ²	Easy Accessibility	High damage: Visible debris	Asbestos cement sheets etc	Chrysotile	Identified	3	6		N/A
External, Ground floor, Adjacent to garage	Asbestos cement Cement Sheet Debris	0.1m ²	Easy Accessibility	High damage: Visible debris	Asbestos cement sheets etc	Chrysotile	Identified	5	6		N/A
External, Ground floor, Site Entrance	Asbestos cement Cement Sheet Debris	0.1m ²	Easy Accessibility	High damage: Visible debris	Asbestos cement sheets etc	Chrysotile	Identified	8	6		N/A

MATERIAL SCORES ABOVE 10 HAVE HIGH POTENTIAL TO RELEASE FIBRES

SECTION EIGHT

MATERIAL ASSESSMENT: SUMMARY BY RISK BAND

Material Assessment: Summary by Risk Band

Site Name: Southmere Farm

Risk Band: Low Risk

Project Number: S2842C

Sample Date	Location Ref	Location ID	Drawing Reference	Area	Floor	Room	Asbestos Type	Product Name	Material Risk Score	Priority Risk Score	Comments	Action	Survey Type
05/04/19	1	53390		External	Ground floor	Adjacent stream	Chrysotile	Cement Sheet Debris	6	N/A	Small amount - similar identified across the site	Removal under HSE guidelines	RS
05/04/19	5	53394		External	Ground floor	Adjacent to garage	Chrysotile	Cement Sheet Debris	6	N/A	Small amount - similar identified across the site	Removal under HSE guidelines	RS
05/04/19	10	53399		External	Ground floor	LHS of footings	Chrysotile	Cement Sheet Debris	6	N/A	Small amount - similar identified across the site	Removal under HSE guidelines	RS
05/04/19	2	53391		External	Ground floor	Rear RHS of site	Chrysotile	Cement Sheet Debris	6	N/A	Small amount - similar identified across the site	Removal under HSE guidelines	RS
05/04/19	3	53392		External	Ground floor	Rear RHS of site	Chrysotile	Cement pipe and debris	6	N/A		Removal under HSE guidelines	RS
05/04/19	8	53397		External	Ground floor	Site Entrance	Chrysotile	Cement Sheet Debris	6	N/A	Small amount - similar identified across the site	Removal under HSE guidelines	RS

Material Assessment: Summary by Risk Band

Site Name: Southmere Farm

Risk Band: NADIS

Project Number: S2842C

Sample Date	Location Ref	Location ID	Drawing Reference	Area	Floor	Room	Asbestos Type	Product Name	Material Risk Score	Priority Risk Score	Comments	Action	Survey Type
05/04/19	4	53393		External	Ground floor	Front RHS of site	NADIS	Tile Debris	0	N/A	Small amount - similar identified across the site	No Action Required	RS
05/04/19	9	53398		External	Ground floor	Mid LHS of site	NADIS	Tile Debris	0	N/A	Small amount - similar identified across the site	No Action Required	RS
05/04/19	6	53395		External	Ground floor	Mid RHS of	NADIS	Cement Sheet Debris	0	N/A	Small amount - similar identified across the site	No Action Required	RS
05/04/19	7	53396		External	Ground floor	RHS of footings	NADIS	Cement Debris	0	N/A	Small amount - similar identified across the site	No Action Required	RS

SECTION NINE

MATERIAL ASSESSMENT: SUMMARY BY PRODUCT TYPE

Material Assessment: Summary by Product Type

Site Name: Southmere Farm

Product Type: Asbestos cement

Project Number: S2842C

Sample Date	Location Ref	Location ID	Drawing Reference	Area	Floor	Room	Product Name	Material Risk Score	Material Risk Band	Priority Risk Score	Comments	Action	Survey Type
05/04/19	1	53390		External	Ground floor	Adjacent stream	Cement Sheet Debris	6	Low Risk	N/A	Small amount - similar identified across the site	Removal under HSE guidelines	RS
05/04/19	5	53394		External	Ground floor	Adjacent to garage	Cement Sheet Debris	6	Low Risk	N/A	Small amount - similar identified across the site	Removal under HSE guidelines	RS
05/04/19	10	53399		External	Ground floor	LHS of footings	Cement Sheet Debris	6	Low Risk	N/A	Small amount - similar identified across the site	Removal under HSE guidelines	RS
05/04/19	2	53391		External	Ground floor	Rear RHS of site	Cement Sheet Debris	6	Low Risk	N/A	Small amount - similar identified across the site	Removal under HSE guidelines	RS
05/04/19	3	53392		External	Ground floor	Rear RHS of site	Cement pipe and debris	6	Low Risk	N/A		Removal under HSE guidelines	RS
05/04/19	8	53397		External	Ground floor	Site Entrance	Cement Sheet Debris	6	Low Risk	N/A	Small amount - similar identified across the site	Removal under HSE guidelines	RS

Material Assessment: Summary by Product Type

Site Name: Southmere Farm

Product Type: NADIS

Project Number: S2842C

Sample Date	Location Ref	Location ID	Drawing Reference	Area	Floor	Room	Product Name	Material Risk Score	Material Risk Band	Priority Risk Score	Comments	Action	Survey Type
05/04/19	4	53393		External	Ground floor	Front RHS of site	Tile Debris	0	NADIS	N/A	Small amount - similar identified across the site	No Action Required	RS
05/04/19	9	53398		External	Ground floor	Mid LHS of site	Tile Debris	0	NADIS	N/A	Small amount - similar identified across the site	No Action Required	RS
05/04/19	6	53395		External	Ground floor	Mid RHS of site	Cement Sheet Debris	0	NADIS	N/A	Small amount - similar identified across the site	No Action Required	RS
05/04/19	7	53396		External	Ground floor	RHS of footings	Cement Debris	0	NADIS	N/A	Small amount - similar identified across the site	No Action Required	RS

SECTION TEN

MATERIAL ASSESSMENT SCHEDULE BY FLOOR

Material Assessment Schedule By Floor

Site Name: Southmere Farm

Floor: Ground floor

Project Number: S2842C

Sample Date	Location Ref	Location ID	Drawing Reference	Area	Room	Asbestos Type	Product Name	Material Risk Score	Material Risk Band	Priority Risk Score	Comments	Action	Survey Type
05/04/19	1	53390		External	Adjacent stream	Chrysotile	Cement Sheet Debris	6	Low Risk	N/A	Small amount - similar identified across the site	Removal under HSE guidelines	RS
05/04/19	10	53399		External	LHS of footings	Chrysotile	Cement Sheet Debris	6	Low Risk	N/A	Small amount - similar identified across the site	Removal under HSE guidelines	RS
05/04/19	2	53391		External	Rear RHS of site	Chrysotile	Cement Sheet Debris	6	Low Risk	N/A	Small amount - similar identified across the site	Removal under HSE guidelines	RS
05/04/19	3	53392		External	Rear RHS of site	Chrysotile	Cement pipe and debris	6	Low Risk	N/A		Removal under HSE guidelines	RS
05/04/19	4	53393		External	Front RHS of site	NADIS	Tile Debris	0	NADIS	N/A	Small amount - similar identified across the site	No Action Required	RS
05/04/19	5	53394		External	Adjacent to garage	Chrysotile	Cement Sheet Debris	6	Low Risk	N/A	Small amount - similar identified across the site	Removal under HSE guidelines	RS
05/04/19	6	53395		External	Mid RHS of site	NADIS	Cement Sheet Debris	0	NADIS	N/A	Small amount - similar identified across the site	No Action Required	RS
05/04/19	7	53396		External	RHS of footings	NADIS	Cement Debris	0	NADIS	N/A	Small amount - similar identified across the site	No Action Required	RS
05/04/19	8	53397		External	Site Entrance	Chrysotile	Cement Sheet Debris	6	Low Risk	N/A	Small amount - similar identified across the site	Removal under HSE guidelines	RS
05/04/19	9	53398		External	Mid LHS of site	NADIS	Tile Debris	0	NADIS	N/A	Small amount - similar identified across the site	No Action Required	RS

SECTION ELEVEN

SURVEY DRAWINGS

Merryhill Asbestos Testing and Consulting Limited

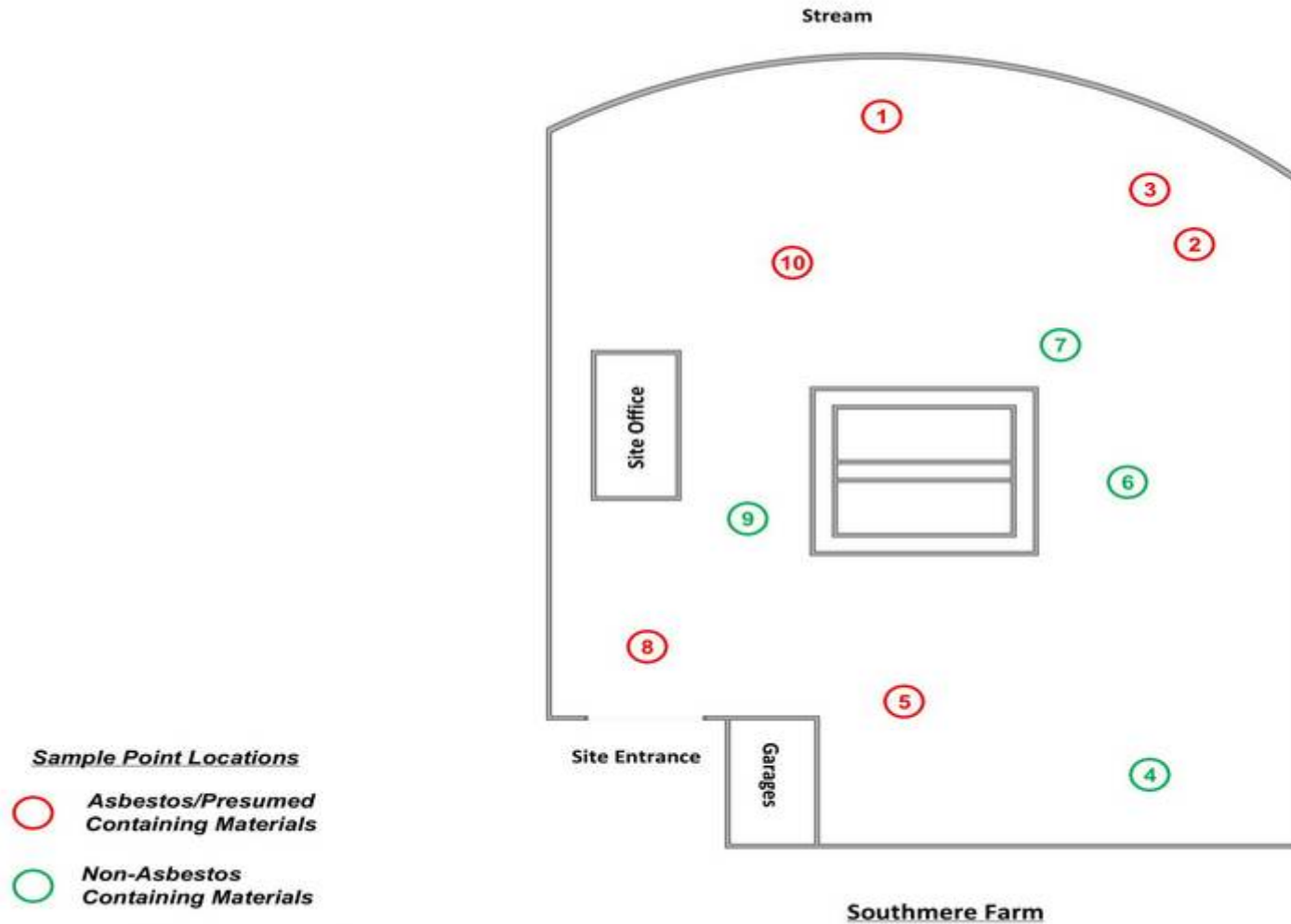


Survey Drawings and Documentation

Project Number:

S2842C





Please refer to survey report
for full extent of ACM's

SECTION TWELVE

BULK CERTIFICATE



Our Ref: J164987 FI: 10
Your Ref: S2842C
Date: 08/04/2019

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Analytical Laboratories Ltd.
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Broadcut, Fareham
Hampshire
PO16 8SS



1227
Tel: (01329) 287777
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www.envirochem.co.uk
office@envirochem.co.uk

Asbestos Fibre Identification Report

Client: Merryhill Asbestos Testing & Consultancy
Merryhill House, Budds Lane, Romsey, Hampshire, SO51 0HA

Site Address: Southmere Farm, Havant, PO19 1SS

Sampled By: Merryhill Asbestos Testing & Consultancy

Date sampled/received: 8th April 2019

Date analysed: 8th April 2019

Analyst/s: Raphael Mirzaia

Analysis Location: 12 The Gardens, Broadcut, Fareham, Hampshire, PO16 8SS

ANALYTICAL PROCEDURE

Fibre identification was carried out in accordance with the documented 'in-house' methods based on the HSE Guidance Note HSG 248. These employed stereo microscopy, polarized microscopy and dispersion staining techniques.

RESULTS

Sample No.	Sample Ref.	Location	Asbestos Detected	Asbestos Type
1	BS546139	Ground floor. External. Adjacent stream. Cement debris sheet	Yes	Chrysotile
2	BS546140	Ground floor. External. Rear RHS of side. Cement sheet debris	Yes	Chrysotile
3	BS546141	Ground floor. External. Rear RHS of site. Cement pipe and debris	Yes	Chrysotile
4	BS546142	Ground floor. External. Front RHS of site. Tile debris	No	

NOTES:

1. Samples were examined for the presence of 6 types of asbestos fibres: crocidolite (blue), amosite (brown), chrysotile (white), anthophyllite, actinolite and tremolite.
2. Samples collected by the client are evaluated using information provided by the client. For samples collected by the client the date of receipt is deemed to be the same as the date sampled.
3. Envirochem is a UKAS accredited laboratory for sampling and identification of asbestos containing materials.
4. Comments, observations and opinions are outside the scope of UKAS accreditation.
5. The analytical method in the HSG248 does not quantify the amount of asbestos present, therefore UKAS accreditation does not permit quantification.
6. If, during fibre identification, only 1 or 2 fibres are seen and identified as asbestos, then the term 'trace asbestos identified' is used.

SIGNATURE:

Authorised signatory

PRINT NAME: Frances Scott

Reg. No. 2378228 England. Registered Office: Envirochem, 12 The Gardens, Broadcut, Fareham, Hampshire, PO16 8SS.



Our Ref: J164987 FI: 10
Your Ref: S2842C
Date: 08/04/2019

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Asbestos Fibre Identification Report

Client: Merryhill Asbestos Testing & Consultancy
Merryhill House, Budds Lane, Romsey, Hampshire, SO51 0HA

Site Address: Southmere Farm, Havant, PO19 1SS

Sampled By: Merryhill Asbestos Testing & Consultancy

Date sampled/received: 8th April 2019

Date analysed: 8th April 2019

Analyst/s: Raphael Mirzaian

Analysis Location: 12 The Gardens, Broadcut, Fareham, Hampshire, PO16 8SS

ANALYTICAL PROCEDURE

Fibre identification was carried out in accordance with the documented 'in-house' methods based on the HSE Guidance Note HSG 248. These employed stereo microscopy, polarized microscopy and dispersion staining techniques.

RESULTS

Sample No.	Sample Ref.	Location	Asbestos Detected	Asbestos Type
5	BS546143	Ground floor. External. Adjacent garage. Cement sheet debris	Yes	Chrysotile
6	BS546144	Ground floor. External. Mid RHS of site. Cement sheet debris	No	
7	BS546145	Ground floor. External. RHS of footings. Debris (cement)	No	
8	BS546146	Ground floor. External. Site entrance. Cement sheet debris	Yes	Chrysotile

NOTES:

1. Samples were examined for the presence of 6 types of asbestos fibres: crocidolite (blue), amosite (brown), chrysotile (white), anthophyllite, actinolite and tremolite.
2. Samples collected by the client are evaluated using information provided by the client. For samples collected by the client the date of receipt is deemed to be the same as the date sampled.
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SIGNATURE:

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PRINT NAME: Frances Scott

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Our Ref: J164987 FI: 10
Your Ref: S2842C
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Asbestos Fibre Identification Report

Client: Merryhill Asbestos Testing & Consultancy
Merryhill House, Budds Lane, Romsey, Hampshire, SO51 0HA
Site Address: Southmere Farm, Havant, PO19 1SS
Sampled By: Merryhill Asbestos Testing & Consultancy
Date sampled/received: 8th April 2019
Date analysed: 8th April 2019
Analyst/s: Raphael Mirzaian
Analysis Location: 12 The Gardens, Broadcut, Fareham, Hampshire, PO16 8SS

ANALYTICAL PROCEDURE

Fibre identification was carried out in accordance with the documented 'in-house' methods based on the HSE Guidance Note HSG 248. These employed stereo microscopy, polarized microscopy and dispersion staining techniques.

RESULTS

Sample No.	Sample Ref.	Location	Asbestos Detected	Asbestos Type
9	BS546147	Ground floor. External. Mid LHS of site. Tile debris	No	
10	BS546148	Ground floor. External. LHS of footings. Sheet debris	Yes	Chrysotile

NOTES:

1. Samples were examined for the presence of 6 types of asbestos fibres: crocidolite (blue), amosite (brown), chrysotile (white), anthophyllite, actinolite and tremolite.
2. Samples collected by the client are evaluated using information provided by the client. For samples collected by the client the date of receipt is deemed to be the same as the date sampled.
3. Envirochem is a UKAS accredited laboratory for sampling and identification of asbestos containing materials.
4. Comments, observations and opinions are outside the scope of UKAS accreditation.
5. The analytical method in the HSG248 does not quantify the amount of asbestos present, therefore UKAS accreditation does not permit quantification.
6. If, during fibre identification, only 1 or 2 fibres are seen and identified as asbestos, then the term 'trace asbestos identified' is used.

SIGNATURE:

Authorised signatory

PRINT NAME: Frances Scott

Reg. No. 2378228 England. Registered Office: Envirochem, 12 The Gardens, Broadcut, Fareham, Hampshire, PO16 8SS.

Merryhill Asbestos Testing and Consulting Limited

Relevant Legislation

The following is a list of some of the major legislation and regulations to be read and/or considered in conjunction with this survey:

1. Control of Asbestos Regulation 2012.
Published by HMSO
2. Approved Code of Practice. The Managing and Working with asbestos.
Published by HSE L143 (Second edition) Published 2013.
3. Asbestos The Analysts Guide for Sampling, Analysis and Clearance procedure.
Published HSE HSG248.
4. Asbestos The Licensed Contractors Guide.
Published by HSE HSG247.
5. Managing Asbestos in Premises.
Published by HSE HSG227.
6. Surveying, Sampling and Assessment of asbestos-containing materials.
Published by HSG 264
7. Health and Safety at Work Act 1974.
Published by HMSO