



Tier Environmental Ltd

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TE1270-TE-00-XX-CO-GE-003-V01

FAO Simon Smith
Environmental Health Officer
Hinckley & Bosworth Borough Council
Hinckley Hub
Rugby Road
Hinckley, Leicester
LE10 0FR

13 May 2022

**PROJECT DESFORD, LEICESTERSHIRE – VERIFICATION OF REMOVAL OF RECENTLY
ENCOUNTERED ASBESTOS CEMENT UNDER SLAB DURING DEMOLITION- PLANNING
REFERENCE: 20/00619/FUL**

Dear Simon,

Tier Environmental have produced this letter in order to notify the Council of the successful verification of recently removed asbestos cement from an area of unexpected contamination. The Council were previously notified of the discovery and proposed mitigation for the impacted area (in accordance with Condition 13a of Planning Permission 20/00619/FUL, a resubmission of 20/01009/FUL) in a letter dated March 2022 (Ref: TE1270-TE-00-XX-CO-GE-002-V01).

Background

Further to preliminary sampling to determine the extent of asbestos cement, Tier Environmental concluded the presence of ACMs in the form of chrysotile asbestos cement. A representative sample of the soils from the impacted area was returned negative for asbestos, indicating an absence of low-level asbestos in the form of loose fibres/fibre bundles. Initial observations did not suggest the presence of any bonding to the slab or presence within the soil matrix.

Proposed remediation works

Tier Environmental considered that a combined remedial approach would be required to address the following potential contaminants of concern. The principals below are considered consistent with those already contained within the Remediation Strategy (Ref: TE1270RS1.1, dated April 2021) for an impacted area SW of the zone covered in this letter.

- The treating (of ACM impacted soils) by means of handpicking, disposal off-site of hand-picked ACMs, and re-use or in situ retention of residual low-level asbestos fibre impacted soils beneath areas of hardstanding / buildings the site with suitable verification tests as required.
- Re-use or retention of low-level asbestos impacted soils beneath a proposed building or hardstanding or incorporation of a localised 600mm clean cover system in the event that proposed development layout plans change is to be retained beneath a proposed soft landscaping area;

The following remediation strategy was devised in order to make the Site safe and suitable for redevelopment in the vicinity of the ACMs:

- A visual inspection of the soil will be undertaken by an asbestos removal specialist within this area and soils treated by means of hand picking ACMs, until no visual evidence of ACMs remain.
- To address the anticipated residual low-level asbestos impacted soils, samples will be taken from the surface following hand picking on a 5m grid. Sample collection will be made by the use of an excavator bucket to ‘scrape’ the sample locations. Samples will be obtained in a ‘W’ shape pattern to provide confidence in the verification of the area;
- Samples will be submitted for laboratory analysis for asbestos screening to determine extent of low-level asbestos;
- The Control of Asbestos Regulations 2012 should be adhered to throughout.
- Low-level asbestos containing soils can remain in situ below the building footprint/hardstanding.
- If proposed plans change and low-level asbestos impacted soils are within an area of soft landscaping this will trigger a clean cover system. If tests are returned as negative for the presence of asbestos then no clean cover will be required.

The above integrated strategy is designed to was agreed by yourself via email on the 23rd March 2022.

Verification Works

M Brown Demolition Limited carried out hand picking works between 24th March to 5th April 2022. Sampling took place over a period of 1 No. visit on the 6th April 2022 by a Geoenvironmental Engineer from Tier Environmental. Table 1 overleaf summarises the samples taken from each area on each site visit. Final sample locations are illustrated in drawing no. TE1270-TE-00-XX-GE-DR-002-V01:

Table 1 – Asbestos sample summary

Sample Ref	Composite	Samples
VRS 1-A, 1-B, 1-C, 1-D	1	4
VRS 2-A, 2-C, 2-D	2	4
VRS 3-A, 3-B, 3-C, 3-D	3	4
VRS 4-A, 4-B, 4-C, 4-D	4	4
VRS 5-A, 5-B, 5-C, 5-D	5	4
VRS 6-A, 6-B, 7-A, 7-B	6+7	4
VRS 8-A, 8-B, 8-D	8	3
VRS 9-A, 9-B, 9-C, 9-D	9	4
VRS 10-A, 10-B, 10-C, 10-D	10	4
VRS 11-A, 11-B, 11-C, 11-D	11	4
VRS 12-A, 12-B, 12-C, 12-D	12	4
VRS 13-A, 13-B, 13-C, 13-D	13	4
VRS 14-A, 14-B, 14-C, 14-D	14	4
VRS 15-A, 15-B, 15-C, 15-D	15	4
VRS 16-A, 16-B, 16-C, 16-D, 17-A, 17-B	16 + 17	6
VRS 18-A, 18-B, 18-C, 18-D	18	4
VRS 19-A, 19-B, 19-C, 19-D	19	4
VRS 20-A, 20-B, 20-C, 20-D	20	4
VRS 21-A, 21-B, VRS 22-A, 22-B, 22-C, 22-D	21+22	6
VRS 23-A, 23-B, 23-C, 23-D	23	4
VRS 24-A, 24-B, 24-C, 24-D, 29-A, 29-B	24+29	6
VRS 25-A, 25-B, 25-C, 25-D	25	4
VRS 26-A, 26-B, 26-C, 26-D	26	4
VRS 27-A, 27-B, 28-A, 28-B	27+28	4
VRS 30-A, 30-B, 30-C, 30-D	30	4
VRS 31-A, 31-B, 31-C, 31-D	31	4
VRS 32-A, 32-B, 32-C, 32-D, 33-A	32+33	5

The Tier Environmental engineer did not report any evidence of residual *visible* AMCs during sampling. Samples were submitted to Element Materials Technology, a UKAS accredited laboratory, for asbestos screens.

Results are tabulated below:

Table 2 – Asbestos sampling results

Composite	Asbestos Type	Quantification
11	Fibre bundles & Asbestos Cement - Chrysotile	0.011%
12	Fibre bundles & Asbestos Cement - Chrysotile	0.010%
13	Fibre bundles & Asbestos Cement - Chrysotile	0.041%
16 +17	Fibre bundles & Asbestos Cement - Chrysotile	5.930%
23	Fibre bundles & ACM Debris - Chrysotile	<0.001%
26	Fibre bundles & Asbestos Cement Debris - Chrysotile	<0.001%
27+28	Fibre bundles - Chrysotile	<0.001%

Conclusion

Tier Environmental consider that the above results demonstrate the successful treating of the ACM impacted soils by means of handpicking and disposal off-site of visible hand-picked ACMs.

Where asbestos cement has been recorded in the results above, these are representative of non-visible fragments which could not be viable for hand-picking.

In accordance with the Remediation Strategy it is considered that the residual low-level asbestos fibre impacted soils would be suitable for *in-situ* retention of beneath areas of hardstanding / buildings. Current proposals demonstrate this part of the site is below hardstanding and partial building footprint. Should proposed development layout plans change, a localised 600mm clean cover system should be implemented in proposed soft landscaping area.

It is sincerely hoped that the above is considered sufficient in line with the agreed proposed verification works.

For and on behalf of

TIER ENVIRONMENTAL LTD



Stuart Milne MSc BSc

Senior Geoenvironmental Engineer

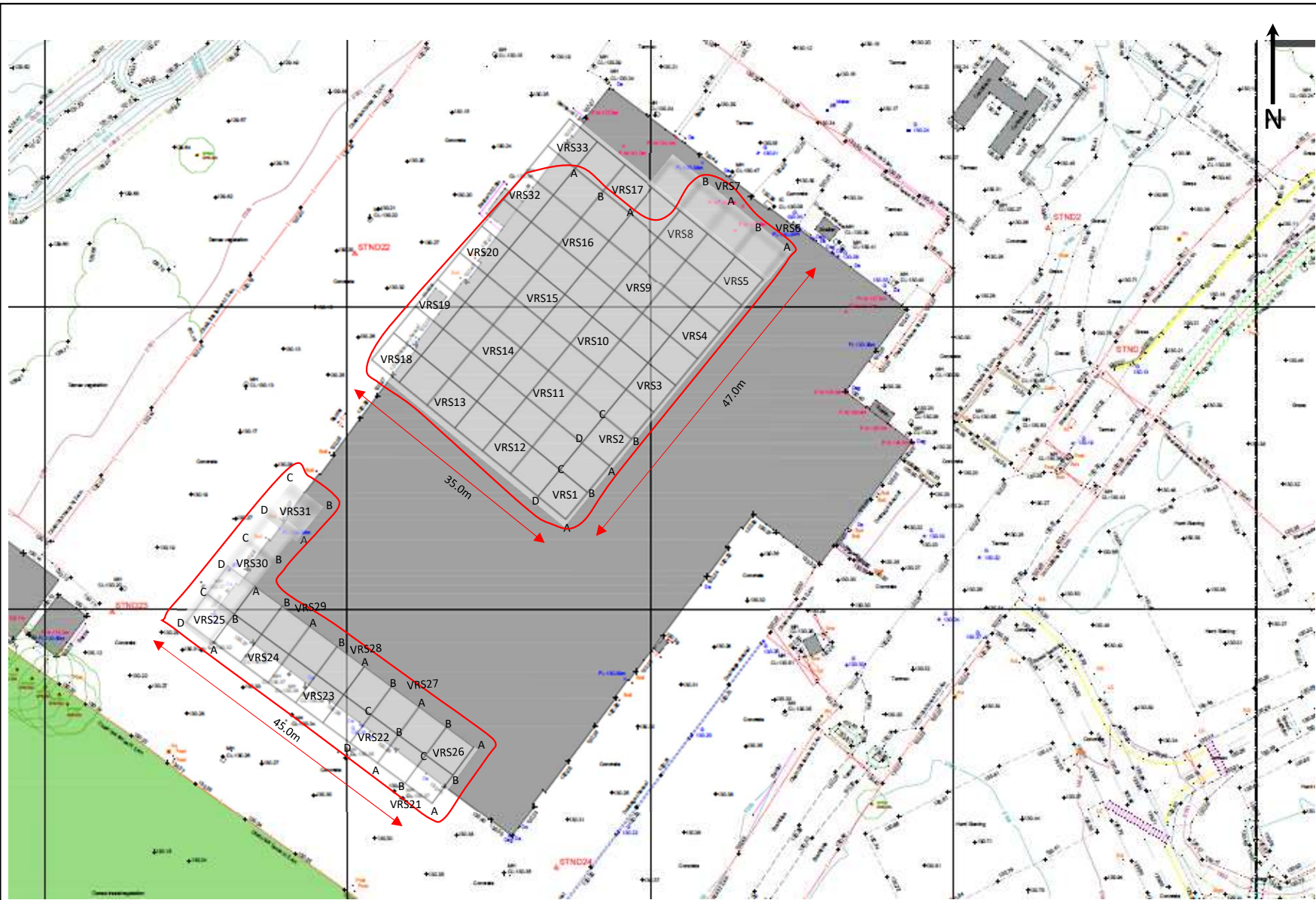
Tier Environmental Ltd

Enc:

Appendix A: Drawings, Appendix B: Photos, Appendix C: Laboratory Results, Appendix D: Third Party Information



Appendix A – Drawings



Legend:

5m Grid with sample locations

Tier Environmental Ltd,
Suite 513, Chadwick House,
Warrington Road,
Birchwood, WA3 6AE

CLIENT: Griffen Developments

PROJECT TITLE:
TE1270 – Desford Area 1

DRAWING TITLE:
Asbestos Impacted Area Verification Samples

DRAWING REF: TE1270-TE-00-XX-GE-DR-002-V01

AUTHOR: SM **REVIEWER:** **SCALE:** NTS

DRAWING DATE:
April/22 **DRAWING STATUS:**



Appendix B - Photographs

Project Name	Noevia, Desford	Photographic Record	Borehole ID
Project No.	TE1270		
Engineer	Spyridon Theodoridis		
Client	Gulf Ventures 2		
			View looking Northeast
			Samples VRS1 to VRS6
			View looking Northeast
			Samples VRS12 - VRS17
Photographed By		Date	06/04/2022

Project Name	Noevia, Desford	Photographic Record	Borehole ID
Project No.	TE1270		
Engineer	Spyridon Theodoridis		
Client	Gulf Ventures 2		
			View looking Northeast
			Samples VRS10 - VRS16
			View looking Northeast
			Samples VRS6 - VRS11
Photographed By		Date	06/04/2022

Project Name	Noevia, Desford	Photographic Record	Borehole ID
Project No.	TE1270		
Engineer	Spyridon Theodoridis		
Client	Gulf Ventures 2		
			View looking North Samples VRS18 - VRS20
			View looking Soyuthwest Samples VRS21 - VRS28
Photographed By		Date	06/04/2022



Appendix C – Laboratory Results

Tier Environmental
Suite 513, Chadwick House
Warrington Rd
Birchwood
Warrington
WA3 6AE



Attention :	Alex Preston
Date :	12th May, 2022
Your reference :	TE1270
Our reference :	Test Report 22/5752 Batch 1
Location :	Project Desford
Date samples received :	7th April, 2022
Status :	Final Report
Issue :	1

One hundred and forty samples were received for analysis on 7th April, 2022 of which twenty seven were scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.

All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

Authorised By:



Phil Sommerton BSc

Senior Project Manager

Please include all sections of this report if it is reproduced

Client Name: Tier Environmental
Reference: TE1270
Location: Project Desford
Contact: Alex Preston

Note:

Asbestos Screen analysis is carried out in accordance with our documented in-house methods PM042 and TM065 and HSG 248 by Stereo and Polarised Light Microscopy using Dispersion Staining Techniques and is covered by our UKAS accreditation. Detailed Gravimetric Quantification and PCOM Fibre Analysis is carried out in accordance with our documented in-house methods PM042 and TM131 and HSG 248 using Stereo and Polarised Light Microscopy and Phase Contrast Optical Microscopy (PCOM). Asbestos sub-samples are retained for not less than 6 months from the date of analysis unless specifically requested.

The LOQ of the Asbestos Quantification is 0.001% dry fibre of dry mass of sample.

Where the sample is not taken by a Element Materials Technology consultant, Element Materials Technology cannot be responsible for inaccurate or unrepresentative sampling.

EMT Job No.	Batch	Sample ID	Depth	EMT Sample No.	Analyst Name	Date Of Analysis	Analysis	Result
22/5752	1	COMPOSITE 1		116	Anthony Carman	22/04/2022	General Description (Bulk Analysis)	Brown Soil/Stones
					Anthony Carman	22/04/2022	Asbestos Fibres	NAD
					Anthony Carman	22/04/2022	Asbestos ACM	NAD
					Anthony Carman	22/04/2022	Asbestos Type	NAD
22/5752	1	COMPOSITE 2		117	Anthony Carman	22/04/2022	General Description (Bulk Analysis)	Brown Soil/Stones
					Anthony Carman	22/04/2022	Asbestos Fibres	NAD
					Anthony Carman	22/04/2022	Asbestos ACM	NAD
					Anthony Carman	22/04/2022	Asbestos Type	NAD
22/5752	1	COMPOSITE 3		118	Catherine Coles	22/04/2022	General Description (Bulk Analysis)	soil/brick/stone
					Catherine Coles	22/04/2022	Asbestos Fibres	NAD
					Catherine Coles	22/04/2022	Asbestos ACM	NAD
					Catherine Coles	22/04/2022	Asbestos Type	NAD
22/5752	1	COMPOSITE 4		119	Catherine Coles	22/04/2022	General Description (Bulk Analysis)	soil/stone/brick
					Catherine Coles	22/04/2022	Asbestos Fibres	NAD
					Catherine Coles	22/04/2022	Asbestos ACM	NAD
					Catherine Coles	22/04/2022	Asbestos Type	NAD
22/5752	1	COMPOSITE 5		120	Catherine Coles	22/04/2022	General Description (Bulk Analysis)	soil/stone/brick
					Catherine Coles	22/04/2022	Asbestos Fibres	NAD
					Catherine Coles	22/04/2022	Asbestos ACM	NAD
					Catherine Coles	22/04/2022	Asbestos Type	NAD
22/5752	1	COMPOSITE 6+7		121	Andrew Alker	22/04/2022	General Description (Bulk Analysis)	brown loose soil and stones
					Andrew Alker	22/04/2022	Asbestos Fibres	NAD
					Andrew Alker	22/04/2022	Asbestos ACM	NAD
					Andrew Alker	22/04/2022	Asbestos Type	NAD
22/5752	1	COMPOSITE 8		122	Anthony Carman	22/04/2022	General Description (Bulk Analysis)	Brown Soil/Stones
					Anthony Carman	22/04/2022	Asbestos Fibres	NAD
					Anthony Carman	22/04/2022	Asbestos ACM	NAD
					Anthony Carman	22/04/2022	Asbestos Type	NAD
22/5752	1	COMPOSITE 9		123	Anthony Carman	22/04/2022	General Description (Bulk Analysis)	Brown Soil/Stones
					Anthony Carman	22/04/2022	Asbestos Fibres	NAD
					Anthony Carman	22/04/2022	Asbestos ACM	NAD
					Anthony Carman	22/04/2022	Asbestos Type	NAD

Client Name: Tier Environmental
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Location: Project Desford
Contact: Alex Preston

EMT Job No.	Batch	Sample ID	Depth	EMT Sample No.	Analyst Name	Date Of Analysis	Analysis	Result
22/5752	1	COMPOSITE 10		124	Andrew Alker	22/04/2022	General Description (Bulk Analysis)	brown loose soil and stones
					Andrew Alker	22/04/2022	Asbestos Fibres	NAD
					Andrew Alker	22/04/2022	Asbestos ACM	NAD
					Andrew Alker	22/04/2022	Asbestos Type	NAD
22/5752	1	COMPOSITE 11		125	Andrew Alker	22/04/2022	General Description (Bulk Analysis)	brown loose soil, stones and cement
					Andrew Alker	22/04/2022	Asbestos Fibres	Fibre Bundles
					Andrew Alker	22/04/2022	Asbestos ACM	Asbestos Cement
					Andrew Alker	22/04/2022	Asbestos Type	Chrysotile
					Charlotte Taylor	11/05/2022	Total ACM Gravimetric Quantification (% Asb)	<0.001 (mass %)
					Charlotte Taylor	11/05/2022	Total Detailed Gravimetric Quantification (% Asb)	0.011 (mass %)
					Charlotte Taylor	11/05/2022	Total Gravimetric Quantification (ACM + Detailed) (% Asb)	0.011 (mass %)
					Charlotte Taylor	11/05/2022	Asbestos PCOM Quantification (Fibres)	<0.001 (mass %)
22/5752	1	COMPOSITE 12		126	Anthony Carman	22/04/2022	General Description (Bulk Analysis)	Brown Soil/Stones
					Anthony Carman	22/04/2022	Asbestos Fibres	Fibre Bundles
					Anthony Carman	22/04/2022	Asbestos ACM	Asbestos Cement
					Anthony Carman	22/04/2022	Asbestos Type	Chrysotile
					Charlotte Taylor	11/05/2022	Total ACM Gravimetric Quantification (% Asb)	<0.001 (mass %)
					Charlotte Taylor	11/05/2022	Total Detailed Gravimetric Quantification (% Asb)	0.010 (mass %)
					Charlotte Taylor	11/05/2022	Total Gravimetric Quantification (ACM + Detailed) (% Asb)	0.010 (mass %)
					Charlotte Taylor	11/05/2022	Asbestos PCOM Quantification (Fibres)	<0.001 (mass %)
22/5752	1	COMPOSITE 13		127	Anthony Carman	22/04/2022	General Description (Bulk Analysis)	Brown Soil/Stones
					Anthony Carman	22/04/2022	Asbestos Fibres	Fibre Bundles
					Anthony Carman	22/04/2022	Asbestos ACM	Asbestos Cement
					Anthony Carman	22/04/2022	Asbestos Type	Chrysotile
					Charlotte Taylor	11/05/2022	Total ACM Gravimetric Quantification (% Asb)	<0.001 (mass %)
					Charlotte Taylor	11/05/2022	Total Detailed Gravimetric Quantification (% Asb)	0.041 (mass %)
					Charlotte Taylor	11/05/2022	Total Gravimetric Quantification (ACM + Detailed) (% Asb)	0.041 (mass %)
					Charlotte Taylor	11/05/2022	Asbestos PCOM Quantification (Fibres)	<0.001 (mass %)
22/5752	1	COMPOSITE 14		128	Charlotte Taylor	21/04/2022	General Description (Bulk Analysis)	soil/stones
					Charlotte Taylor	21/04/2022	Asbestos Fibres	NAD
					Charlotte Taylor	21/04/2022	Asbestos ACM	NAD
					Charlotte Taylor	21/04/2022	Asbestos Type	NAD
22/5752	1	COMPOSITE 15		129	Andrew Alker	21/04/2022	General Description (Bulk Analysis)	brown loose soil and stone
					Andrew Alker	21/04/2022	Asbestos Fibres	NAD
					Andrew Alker	21/04/2022	Asbestos ACM	NAD
					Andrew Alker	21/04/2022	Asbestos Type	NAD
22/5752	1	COMPOSITE 16+17		130	Andrew Alker	21/04/2022	General Description (Bulk Analysis)	brown loose soil, stone and cement
					Andrew Alker	21/04/2022	Asbestos Fibres	Fibre Bundles
					Andrew Alker	21/04/2022	Asbestos ACM	Asbestos Cement
					Andrew Alker	21/04/2022	Asbestos Type	Chrysotile
					Charlotte Taylor	11/05/2022	Total ACM Gravimetric Quantification (% Asb)	0.563 (mass %)
					Charlotte Taylor	11/05/2022	Total Detailed Gravimetric Quantification (% Asb)	5.367 (mass %)
					Charlotte Taylor	11/05/2022	Total Gravimetric Quantification (ACM + Detailed) (% Asb)	5.930 (mass %)
					Charlotte Taylor	11/05/2022	Asbestos PCOM Quantification (Fibres)	<0.001 (mass %)

Client Name: Tier Environmental
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EMT Job No.	Batch	Sample ID	Depth	EMT Sample No.	Analyst Name	Date Of Analysis	Analysis	Result
22/5752	1	COMPOSITE 16+17		130	Charlotte Taylor	11/05/2022	Asbestos Gravimetric & PCOM Total	5.930 (mass %)
22/5752	1	COMPOSITE 18		131	Andrew Alker	22/04/2022	General Description (Bulk Analysis)	brown loose soil and stones
					Andrew Alker	22/04/2022	Asbestos Fibres	NAD
					Andrew Alker	22/04/2022	Asbestos ACM	NAD
					Andrew Alker	22/04/2022	Asbestos Type	NAD
22/5752	1	COMPOSITE 19		132	Andrew Alker	22/04/2022	General Description (Bulk Analysis)	brown loose soil and stones
					Andrew Alker	22/04/2022	Asbestos Fibres	NAD
					Andrew Alker	22/04/2022	Asbestos ACM	NAD
					Andrew Alker	22/04/2022	Asbestos Type	NAD
22/5752	1	COMPOSITE 20		133	Andrew Alker	22/04/2022	General Description (Bulk Analysis)	brown loose soil and stones
					Andrew Alker	22/04/2022	Asbestos Fibres	NAD
					Andrew Alker	22/04/2022	Asbestos ACM	NAD
					Andrew Alker	22/04/2022	Asbestos Type	NAD
22/5752	1	COMPOSITE 21+22		134	Catherine Coles	22/04/2022	General Description (Bulk Analysis)	soil
					Catherine Coles	22/04/2022	Asbestos Fibres	NAD
					Catherine Coles	22/04/2022	Asbestos ACM	NAD
					Catherine Coles	22/04/2022	Asbestos Type	NAD
22/5752	1	COMPOSITE 23		135	Andrew Alker	22/04/2022	General Description (Bulk Analysis)	brown loose soil and stone
					Andrew Alker	22/04/2022	Asbestos Fibres	Fibre Bundles
					Andrew Alker	22/04/2022	Asbestos ACM	ACM Debris
					Andrew Alker	22/04/2022	Asbestos Type	Chrysotile
					Charlotte Taylor	11/05/2022	Total ACM Gravimetric Quantification (% Asb)	<0.001 (mass %)
					Charlotte Taylor	11/05/2022	Total Detailed Gravimetric Quantification (% Asb)	<0.001 (mass %)
					Charlotte Taylor	11/05/2022	Total Gravimetric Quantification (ACM + Detailed) (% Asb)	<0.001 (mass %)
					Charlotte Taylor	11/05/2022	Asbestos PCOM Quantification (Fibres)	<0.001 (mass %)
					Charlotte Taylor	11/05/2022	Asbestos Gravimetric & PCOM Total	<0.001 (mass %)
22/5752	1	COMPOSITE 24+29		136	Andrew Alker	22/04/2022	General Description (Bulk Analysis)	brown loose soil and stones
					Andrew Alker	22/04/2022	Asbestos Fibres	NAD
					Andrew Alker	22/04/2022	Asbestos ACM	NAD
					Andrew Alker	22/04/2022	Asbestos Type	NAD
22/5752	1	COMPOSITE 25		137	Anthony Carman	22/04/2022	General Description (Bulk Analysis)	Brown Soil/Stones
					Anthony Carman	22/04/2022	Asbestos Fibres	NAD
					Anthony Carman	22/04/2022	Asbestos ACM	NAD
					Anthony Carman	22/04/2022	Asbestos Type	NAD
22/5752	1	COMPOSITE 26		138	Anthony Carman	22/04/2022	General Description (Bulk Analysis)	Brown Soil/Stones
					Anthony Carman	22/04/2022	Asbestos Fibres	Fibre Bundles
					Anthony Carman	22/04/2022	Asbestos ACM	Asbestos Cement Debris
					Anthony Carman	22/04/2022	Asbestos Type	Chrysotile
					Charlotte Taylor	11/05/2022	Total ACM Gravimetric Quantification (% Asb)	<0.001 (mass %)
					Charlotte Taylor	11/05/2022	Total Detailed Gravimetric Quantification (% Asb)	<0.001 (mass %)
					Charlotte Taylor	11/05/2022	Total Gravimetric Quantification (ACM + Detailed) (% Asb)	<0.001 (mass %)
					Charlotte Taylor	11/05/2022	Asbestos PCOM Quantification (Fibres)	<0.001 (mass %)
					Charlotte Taylor	11/05/2022	Asbestos Gravimetric & PCOM Total	<0.001 (mass %)

Client Name: Tier Environmental
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EMT Job No.	Batch	Sample ID	Depth	EMT Sample No.	Analyst Name	Date Of Analysis	Analysis	Result
22/5752	1	COMPOSITE 27+28		139	Andrew Alker	22/04/2022	General Description (Bulk Analysis)	brown loose soil and stones
					Andrew Alker	22/04/2022	Asbestos Fibres	Fibre Bundles
					Andrew Alker	22/04/2022	Asbestos ACM	NAD
					Andrew Alker	22/04/2022	Asbestos Type	Chrysotile
					Charlotte Taylor	11/05/2022	Total ACM Gravimetric Quantification (% Asb)	<0.001 (mass %)
					Charlotte Taylor	11/05/2022	Total Detailed Gravimetric Quantification (% Asb)	<0.001 (mass %)
					Charlotte Taylor	11/05/2022	Total Gravimetric Quantification (ACM + Detailed) (% Asb)	<0.001 (mass %)
					Charlotte Taylor	11/05/2022	Asbestos PCOM Quantification (Fibres)	<0.001 (mass %)
					Charlotte Taylor	11/05/2022	Asbestos Gravimetric & PCOM Total	<0.001 (mass %)
22/5752	1	COMPOSITE 30		140	Andrew Alker	22/04/2022	General Description (Bulk Analysis)	brown loose soil and stone
					Andrew Alker	22/04/2022	Asbestos Fibres	NAD
					Andrew Alker	22/04/2022	Asbestos ACM	NAD
					Andrew Alker	22/04/2022	Asbestos Type	NAD
22/5752	1	COMPOSITE 31		141	Andrew Alker	22/04/2022	General Description (Bulk Analysis)	brown loose soil and stones
					Andrew Alker	22/04/2022	Asbestos Fibres	NAD
					Andrew Alker	22/04/2022	Asbestos ACM	NAD
					Andrew Alker	22/04/2022	Asbestos Type	NAD
22/5752	1	COMPOSITE 32+33		142	Andrew Alker	21/04/2022	General Description (Bulk Analysis)	brown loose soil and stone
					Andrew Alker	21/04/2022	Asbestos Fibres	NAD
					Andrew Alker	21/04/2022	Asbestos ACM	NAD
					Andrew Alker	21/04/2022	Asbestos Type	NAD

Client Name: Tier Environmental

Reference: TE1270

Location: Project Desford

Contact: Alex Preston

[illegible]

Please note that only samples that are deviating are mentioned in this report. If no samples are listed it is because none were deviating. Only analyses which are accredited are recorded as deviating if set criteria are not met.

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

EMT Job No.: 22/5752

SOILS and ASH

Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. Asbestos samples are retained for 6 months.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Limits of detection for analyses carried out on as received samples are not moisture content corrected. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C. Ash samples are dried at 37°C ±5°C.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

% Asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264 The Survey Guide - Appendix 2 : ACMs in buildings listed in order of ease of fibre release.

Sufficient amount of sample must be received to carry out the testing specified. Where an insufficient amount of sample has been received the testing may not meet the requirements of our accredited methods, as such accreditation may be removed.

Negative Neutralization Potential (NP) values are obtained when the volume of NaOH (0.1N) titrated (pH 8.3) is greater than the volume of HCl (1N) to reduce the pH of the sample to 2.0 - 2.5. Any negative NP values are corrected to 0.

The calculation of Pyrite content assumes that all oxidisable sulphides present in the sample are pyrite. This may not be the case. The calculation may be an overestimate when other sulphides such as Barite (Barium Sulphate) are present.

WATERS

Please note we are not a UK Drinking Water Inspectorate (DWI) Approved Laboratory .

ISO17025 accreditation applies to surface water and groundwater and usually one other matrix which is analysis specific, any other liquids are outside our scope of accreditation.

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

STACK EMISSIONS

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation for Dioxins and Furans and Dioxin like PCBs has been performed on XAD-2 Resin, only samples which use this resin will be within our MCERTS scope.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

DEVIATING SAMPLES

All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. The temperature of sample receipt is recorded on the confirmation schedules in order that the client can make an informed decision as to whether testing should still be undertaken.

SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

DILUTIONS

A dilution suffix indicates a dilution has been performed and the reported result takes this into account. No further calculation is required.

BLANKS

Where analytes have been found in the blank, the sample will be treated in accordance with our laboratory procedure for dealing with contaminated blanks.

NOTE

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a UKAS requirement for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.

Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

Laboratory records are kept for a period of no less than 6 years.

REPORTS FROM THE SOUTH AFRICA LABORATORY

Any method number not prefixed with SA has been undertaken in our UK laboratory unless reported as subcontracted.

Measurement Uncertainty

Measurement uncertainty defines the range of values that could reasonably be attributed to the measured quantity. This range of values has not been included within the reported results. Uncertainty expressed as a percentage can be provided upon request.

Customer Provided Information

Sample ID and depth is information provided by the customer.

ABBREVIATIONS and ACRONYMS USED

#	ISO17025 (UKAS Ref No. 4225) accredited - UK.
SA	ISO17025 (SANAS Ref No.T0729) accredited - South Africa
B	Indicates analyte found in associated method blank.
DR	Dilution required.
M	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
>>	Results above calibration range, the result should be considered the minimum value. The actual result could be significantly higher.
*	Analysis subcontracted to an Element Materials Technology approved laboratory.
AD	Samples are dried at 35°C ±5°C
CO	Suspected carry over
LOD/LOR	Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS
ME	Matrix Effect
NFD	No Fibres Detected
BS	AQC Sample
LB	Blank Sample
N	Client Sample
TB	Trip Blank Sample
OC	Outside Calibration Range

HWOL ACRONYMS AND OPERATORS USED

HS	Headspace Analysis.
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent.
CU	Clean-up - e.g. by florisil, silica gel.
1D	GC - Single coil gas chromatography.
Total	Aliphatics & Aromatics.
AL	Aliphatics only.
AR	Aromatics only.
2D	GC-GC - Double coil gas chromatography.
#1	EH_Total but with humics mathematically subtracted
#2	EU_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +).
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total
MS	Mass Spectrometry.

EMT Job No: 22/5752

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM65	Asbestos Bulk Identification method based on HSG 248 Second edition (2021)	PM42	Modified SCA Blue Book V.12 draft 2017 and WM3 1st Edition v1.1:2018. Solid samples undergo a thorough visual inspection for asbestos fibres prior to asbestos identification using TM065.	Yes		AR	
TM131	Quantification of Asbestos Fibres and ACM based on HSG 248 Second edition:2021, HSG 264 Second edition:2012, HSE Contract Research Report No.83/1996, MDHS 87:1998, WM3 1st Edition v1.1:2018	PM42	Modified SCA Blue Book V.12 draft 2017 and WM3 1st Edition v1.1:2018. Solid samples undergo a thorough visual inspection for asbestos fibres prior to asbestos identification using TM065.	Yes		AR	Yes



Appendix D – Third Party Information

Supervisors' visual inspection and sign off form (non-licenced asbestos)

Site address – Building 1, Peckleton lane, Desford, LE9 9BZ

Supervisor/manager – Jack Brown

Operatives – Miahi cubia

Location of works – Areas 1-6 under building 1 slab

Description of works

Asbestos cement found under slab of building 1 in 6 areas, Hand pick asbestos cement, place into bags, then load in to a 40 yard skip.

Visual Inspection Started @ - 8.00am

Completed @ 2.00PM

Duration – 6 Hours

Were there any Issues identified during the inspection – NO

Supervisor Information

Supervisors Name – Jack Brown

Signature – J Brown

Inspection completed at – 2.00PM

Date - 7/04/2022

Air test Information

Analyst Name –

Signature –

Air test duration –

Number of pumps –

Date –

Drawing of areas worked in are attached, with air test and waste transfer.

Asbestos Under slab – Project Desford

M.BROWN
DEMOLITION LTD

SERIOUS ABOUT SAFETY !

Key

AREA 1

AREA 2

AREA 3

AREA 4

AREA 5

AREA 6



Task briefing

Date 04/04/2022 – 07/04/2022

Site address – Building 1, Peckleton Lane, Desford, Le9 9BZ

Description of works- Hand picking asbestos in areas 1-6

PPE in use -



Hazards

Moving Plant

Slips trips & falls

[illegible]

Task briefing

Date 24/03/2022 – 25/03/2022

Site address – Building 1, Peckleton Lane, Desford, Le9 9BZ

Description of works- Hand picking asbestos in areas 1-6

PPE in use -



Hazards

Moving Plant

Slips trips & falls

[illegible]

Task briefing

Date 28/03/2022 – 01/04/2022

Site address – Building 1, Peckleton Lane, Desford, Le9 9BZ

Description of works- Hand picking asbestos in areas 1-6

PPE in use -



Hazards

Moving Plant

Slips trips & falls

[illegible]



AE Burgess & Sons Ltd
Ulverscroft Road, Leicester, LE4 6BY
Tel : 0116 2620065, Email : skips@aeburgess.com

Waste Pre-treatment Delivery & Transfer Note

Carrier Licence: CBDU89762

VAT Reg: 113 7209 03

Customer
M. BROWN DEMOLITION LIMITED

Site Address
GRIFFEN PARK, PECKLETON LANE, LE9 9BZ

Contact Info
JACK 07712525028

Ticket No. 77572

Date 11-May-2022

Account No. A-MB02

Order Number JACK

Movement Type **COLLECTION**

Area	Vehicle Reg	Driver
Leicester	D15AEB	John Mason
Skip Size 40 Yard RORO	Waste Type Asbestos Hazardous	EW Code 17 06 05
Special Instructions	Conf Waste Type Asbestos Hazardous	SIC Code 43110

Warning - Under the Duty of Care Environmental Protection Act 1990, the hirer is responsible for informing the driver of the contents of the skip.

Terms And Conditions Of Hire

SKIP HIRE IS OFFERED AT CUSTOMERS OWN RISK. WE CANNOT ACCEPT RESPONSIBILITY FOR DAMAGE CAUSED BY OUR VEHICLES UPON DELIVERING/COLLECTING TO/FROM YOUR SITE.
FOR FULL TERMS AND CONDITIONS PLEASE SEE
WWW.AEBURGESS.COM

NO ASBESTOS - FRIDGES - PAINT - TYRES - OIL - BATTERIES - CHEMICALS - LIQUIDS - LIQUID CEMENT
NO FIRES / EXPLOSIVE / INFLAMMABLE / NOXIOUS / PUTRESCIBLE OR OFFENSIVE MATTER
PLASTERBOARD AND/OR GYPSUM PRODUCTS ARE NO LONGER ACCEPTED IN GENERAL MIXED WASTE SKIPS
SKIPS WILL NOT BE REMOVED FROM SITE IF THEY HAVE BEEN MOVED OR LOADED ABOVE THE SIDES/NOT LEVEL LOADED.

DISPOSAL POINT Augean	HAULIER
Waste Disposal Licence No:	Waste Carrier Signature: 
Gross Weight: 32300	Print Name: John Mason
Tare Weight: 17300	Date: 11-May-2022
Net Weight: 15000	
Ticket No: 008440	

I understand and accept all the Terms and Conditions of the hire, as printed and I Confirm that I have fulfilled my duty to apply the waste hierarchy as required by regulation 12 of the Waste Regulations (England and Wales) 2011.

Signature:

Print Name: No one on site

11-May-2022

An Electronic copy of this Waste Transfer Note is available on request.