

PHOTOGRAPHIC REPORT

C121 Stonefield Way, Ruislip

Photos of Earthworks – Phase 1(Proposed Units 1-2)



C121 Stonefield Way, Ruislip

Photos of Earthworks – Phase 1(Proposed Units 1-2)



C121 Stonefield Way, Ruislip

Photos of Earthworks – Phase 2(Proposed Units 3-7)



C121 Stonefield Way, Ruislip

Photos of Earthworks – Phase 2(Proposed Units 3-7)



C121 Stonefield Way, Ruislip

Photos of New Watermain – Phase 1 and 2(Proposed Units 1-7)



ASBESTOS AIR TEST CERTIFICATES

Certificate of Reoccupation Report



1 Stonefield Close
Ruislip
Middlesex
HA4 0YH

Full Circle Compliance

Unit 12 Whitelands Business Park
Terling Road
Hatfield Peverel
Chelmsford
Essex
CM3 2AG

Company Details

Email: info@fullcirclecompliance.co.uk

Web: www.fullcirclecompliance.co.uk

Tel: 01245 690606

Job Details:

Name and address of client:	Inner City Environmental Unit 5 Schooner Park Crossways Business Park Dartford Kent DA2 6NW		
Name and address of site:	1 Stonefield Close Ruislip Middlesex HA4 0YH		
Work Type:	Stage 4 Clearance	Date of works:	17 Oct 2019
Location of Work Area(s):	Area 4 Enclosure	Size of Area:	4m ² / 16m ³
Asbestos contractor representative:	C Brum	Report issue date:	17 Oct 2019
Name of asbestos removal contractor:	Inner City Environmental		
Scope of works:	AIB removal under fully controlled conditions		

Analyst: Ben Coleman

Signature:

A handwritten signature in black ink, appearing to be "Ben Coleman", written over a horizontal line.

Technically reviewed by: Ben Coleman

Signature:

A handwritten signature in black ink, appearing to be "Ben Coleman", written over a horizontal line.

Stage 1: Preliminary check of site and job condition



Check the following to confirm they are still in place and operating:

Work Areas	Yes	Enclosures / NPU	Yes	Hygiene facilities	Yes
------------	-----	------------------	-----	--------------------	-----

Check the following to confirm free from debris, ACMs and waste sacks:

Work and Surrounding Areas	Yes	Transit route and hygiene facilities	Yes	Waste route and skip area	Yes
----------------------------	-----	--------------------------------------	-----	---------------------------	-----

Check the following to confirm:

Smoke tests carried out:	N/A	Leak tests carried out:	N/A	Viewing panels / CCTV present:	Yes
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Is a four stage clearance required to the DCU?	DCU to remain on site
--	-----------------------

Stage 1 Comments

Satisfactory

Supporting Photographs

			
Airlocks	NPU	Viewing Panel	NPU

Result of Stage 1: PASSED

Analyst Name:	Ben Coleman	Analyst Signature:		
Date:	17 Oct 2019	Time:	08:20	

Stage 2: Thorough visual inspection

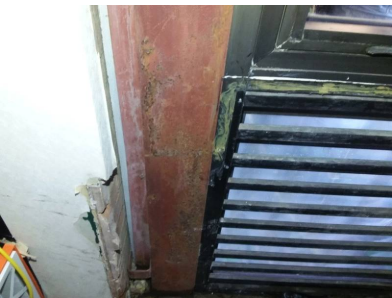
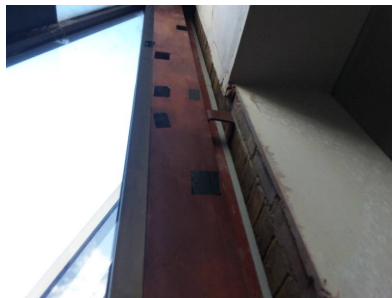


Hygiene unit is free from waste, debris, dust, contaminated clothing etc:	Yes	Airlock and enclosure are free of waste bags, materials and unnecessary equipment:	Yes
All areas fully inspected (give details below of areas sheeted over / inaccessible):	Yes	All ACMs completely removed from underlying surfaces:	Yes
No visible dust / debris in enclosure, airlocks or work area:	No	Total time taken to complete visual inspection	9
Time Visual Started:	08:41	Time Visual Completed:	08:50

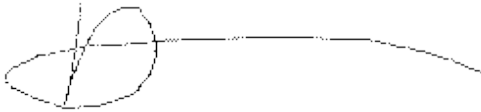
Stage 2 Comments

All AIB has been completely removed, all remaining surfaces adequately cleaned throughout.

Supporting Photographs

			
AIB Completely Removed	AIB Completely Removed	Floor Surface	AIB Completely Removed

Result of Stage 2: PASSED

Analyst Name:	Ben Coleman	Analyst Signature:	
Date:	17 Oct 2019	Time:	08:50

Stage 3: Clearance air monitoring certificate

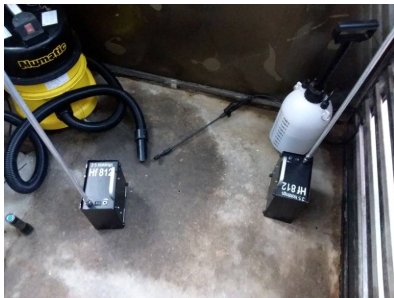


Microscope No:		FCC034		Thermometer / Barometer No:		/		Stage Micrometer:		FCC116		NPL Test Slide No:		FCC090	
Walton Beckett Graticule:		100µm		Temperature (°C):		12°C		Pressure (mb):		1001.1mb		5th line of HSE / NPL test slide observed:		Yes	
High Flow meter No:		FCC115		Low flow meter No:				Exposed filter diameter:		22.2mm		Slides stored in slide box no:		BC14	
Sample No	Sample Ref	Pump No	Cowl	Sampling Period		Flow Rate		Volume (litres) (V)	No of Graticule areas (n)	Fibres (N)	Concentration Fibres/ml	Reported Result fibres/ml	Limit of Quantification		
Start End	Total (Mins)	Start End	Total (L/min)												
1	BC005277 / Field Blank	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Field Blank				
				N/A		N/A									
2	BC005278 / Within Enclosure	FCC212	FCC155	08:51	40	12.0	12.0	480	200	1.5	0.0007	<0.010	0.010		
				09:31		12.0									
3	BC005279 / Within Enclosure	FCC213	FC0012	08:51	40	12.0	12.0	480	200	4	0.0020	<0.010	0.010		
				09:31		12.0									
Duration of Brushing:		3.0		Flowmeter Correction Factor:		0		Analysis location:		Mobile Lab					
Analyst Name:		Ben Coleman		Analyst Signature:							Date: Time:		17 Oct 2019 09:41		
Background Monitoring		Leakage Monitoring		Clearance Testing		Reassurance Monitoring		Suitability Monitoring		Compliance Monitoring		Field Blank			
BM		LM		CT		RM		SM		CM		FB			

Stage 3: Clearance air monitoring

Enclosure intact and interior dry:	Yes	Negative pressure units switched off and sealed prior to clearance air monitoring:	Yes
Size of area:	16 m ³	Number of samples collected:	

Stage 3 Comments**Supporting Photographs**

		No photographic evidence available.	No photographic evidence available.
Sealed NPU	Clearance Air Samples		

Result of Stage 3: PASSED

Analyst Name:	Ben Coleman	Analyst Signature:		
Date:	17 Oct 2019	Time:	09:41	

Stage 4: Assessment of site for reoccupation



Work or former enclosure area is free from any visible debris, asbestos sacks and waste:	Yes
Transit route and waste area is free from all asbestos debris, waste sacks and waste:	Yes
No ACMs remain in the work or former enclosure area (except any detailed stage 1 of this report):	No
Stage 4 to be completed at a later date, at the request of the site supervisor:	No

Stage 4 Comments

Satisfactory

Supporting Photographs



Former Work Area



Former Work Area



Former Work Area

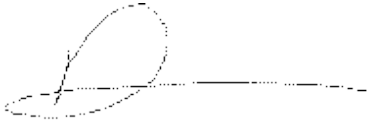
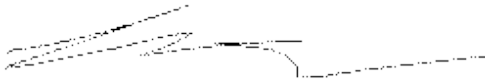


Former Work Area

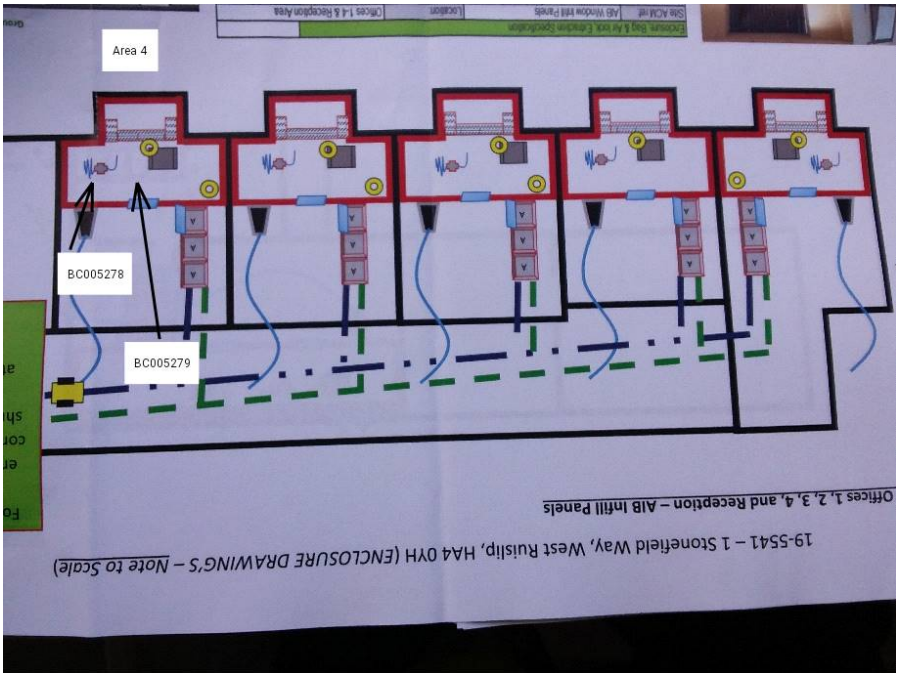
Result of Stage 4: PASSED

Analyst Name:	Ben Coleman	Analyst Signature:		
Date:	17 Oct 2019	Time:	10:20	

Final:**Following stages 1 – 4 this area is now classed as: SAFE FOR REOCCUPATION**

Analyst Name:	Ben Coleman	Analyst Signature:		
Date:	17 Oct 2019	Time:	10:20	
Site Supervisor Name:	C Brumm	Supervisor Signature:		
Date:	17 Oct 2019	Time:	10:20	

Appendix 1 – Site Plan



Width: 2

Length: 2

Height: 4

Area: 4m²

Analyst Name:	Ben Coleman	Analyst Signature:	
Date: Time:	17 Oct 2019 09:54		
Site Supervisor Name:	C Brumm	Supervisor Signature:	
Date: Time:	17 Oct 2019 09:54		

Appendix 2 – Disclaimer



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Please note the witnessing of smoke tests is outside of the scope of UKAS accreditation.

Representatives Signature - The signatory on report acknowledgement agrees to findings of this report being accurate and correct.

Accuracy of Test Results

The above sampling has been undertaken in accordance with the current version of HSG248, and documented in house procedures. Using this method, the lowest limit of quantification LOQ for a 480l sample is 0.010f/ml with 200 fields counted. For volumes less than this, the LOQ is quoted.

Airflow measured on site is recorded against a correction chart. Flow meters are calibrated against a UKAS certified master flow meter accurate to $\pm 0.5\%$. In accordance with HSG248, if the combined effect of ambient temperature and pressure between calibration and sampling location exceeds 5% a correction is applied to the air sample volume.

The calculated fibre concentration is given for each air sample taken. Where the corresponding reported fibre concentration is preceded by '<', the lower limit of quantification (LOQ) of the method has not been reached.

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Tel: 01245 690606

Job Details:

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Name and address of site:	1 Stonefield Close Ruislip Middlesex HA4 0YH		
Work Type:	Stage 4 Clearance	Date of works:	17 Oct 2019
Location of Work Area(s):	Area 2 Enclosure	Size of Area:	N/A / N/A
Asbestos contractor representative:	C Brum	Report issue date:	17 Oct 2019
Name of asbestos removal contractor:	Inner City Environmental		
Scope of works:	AIB removal under fully controlled conditions		

Analyst: Ben Coleman

Signature:

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Technically reviewed by: Ben Coleman

Signature:

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Stage 1: Preliminary check of site and job condition



Check the following to confirm they are still in place and operating:

Work Areas	Yes	Enclosures / NPU	Yes	Hygiene facilities	Yes
------------	-----	------------------	-----	--------------------	-----

Check the following to confirm free from debris, ACMs and waste sacks:

Work and Surrounding Areas	Yes	Transit route and hygiene facilities	Yes	Waste route and skip area	Yes
----------------------------	-----	--------------------------------------	-----	---------------------------	-----

Check the following to confirm:

Smoke tests carried out:	N/A	Leak tests carried out:	N/A	Viewing panels / CCTV present:	Yes
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Is a four stage clearance required to the DCU?	DCU to remain on site
--	-----------------------

Stage 1 Comments

Satisfactory

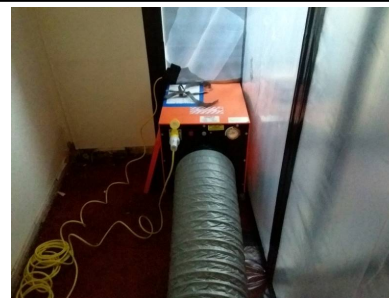
Supporting Photographs



DCU



Airlocks



NPU



Viewing Panel

Result of Stage 1: PASSED

Analyst Name:	Ben Coleman	Analyst Signature:		
Date:	17 Oct 2019	Time:	08:20	

Stage 2: Thorough visual inspection



Hygiene unit is free from waste, debris, dust, contaminated clothing etc:	Yes	Airlock and enclosure are free of waste bags, materials and unnecessary equipment:	Yes
All areas fully inspected (give details below of areas sheeted over / inaccessible):	Yes	All ACMs completely removed from underlying surfaces:	Yes
No visible dust / debris in enclosure, airlocks or work area:	No	Total time taken to complete visual inspection	10
Time Visual Started:	08:53	Time Visual Completed:	09:03

Stage 2 Comments

AIB Completely removed, all remaining surfaces adequately cleaned.

Supporting Photographs

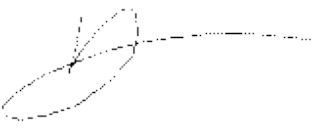
			
AIB Completely Removed	AIB Completely Removed	AIB Completely Removed	Floor Surface

Result of Stage 2: PASSED

Analyst Name:	Ben Coleman	Analyst Signature:	
Date:	17 Oct 2019	Time:	
		09:01	

Stage 3: Clearance air monitoring certificate



Microscope No:		FCC034		Thermometer / Barometer No:		/		Stage Micrometer:		FCC116		NPL Test Slide No:		FCC090	
Walton Beckett Graticule:		100µm		Temperature (°C):		12°C		Pressure (mb):		1001.1mb		5th line of HSE / NPL test slide observed:		Yes	
High Flow meter No:		FCC115		Low flow meter No:				Exposed filter diameter:		22.2mm		Slides stored in slide box no:		BC14	
Sample No	Sample Ref	Pump No	Cowl	Sampling Period Start End	Total (Mins)	Flow Rate Start End	Total (L/min)	Volume (litres) (V)	No of Graticule areas (n)	Fibres (N)	Concentration Fibres/ml	Reported Result fibres/ml	Limit of Quantification		
1	BC005280 / Field Blank	N/A	N/A	N/A N/A	N/A	N/A N/A	N/A	N/A	N/A	N/A	Field Blank				
2	BC005281 / Within Enclosure	FCC04	FCC014	09:04 09:44	40	12.0 12.0	12.0	480	200	2	0.0010	<0.010	0.010		
3	BC005282 / Within Enclosure	FCC45	FCC045	09:04 09:44	40	12.0 12.0	12.0	480	200	1	0.0005	<0.010	0.010		
Duration of Brushing:		3.0		Flowmeter Correction Factor:		0		Analysis location:		Mobile Lab					
Analyst Name:		Ben Coleman		Analyst Signature:								Date: Time:		17 Oct 2019 09:57	
Background Monitoring		Leakage Monitoring		Clearance Testing		Reassurance Monitoring		Suitability Monitoring		Compliance Monitoring		Field Blank			
BM		LM		CT		RM		SM		CM		FB			

Stage 3: Clearance air monitoring

Enclosure intact and interior dry:	Yes	Negative pressure units switched off and sealed prior to clearance air monitoring:	Yes
Size of area:	16 m ³	Number of samples collected:	

Stage 3 Comments**Supporting Photographs**

		No photographic evidence available.	No photographic evidence available.
Sealed NPU	Clearance Air Tests		

Result of Stage 3: PASSED

Analyst Name:	Ben Coleman	Analyst Signature:		
Date:	17 Oct 2019	Time:	09:57	

Stage 4: Assessment of site for reoccupation



Work or former enclosure area is free from any visible debris, asbestos sacks and waste:	Yes
Transit route and waste area is free from all asbestos debris, waste sacks and waste:	Yes
No ACMs remain in the work or former enclosure area (except any detailed stage 1 of this report):	No
Stage 4 to be completed at a later date, at the request of the site supervisor:	No

Stage 4 Comments

Satisfactory

Supporting Photographs



Former Work Area



Former Work Area



Former Work Area

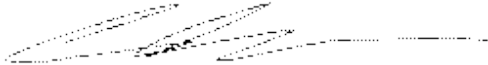


Former Work Area

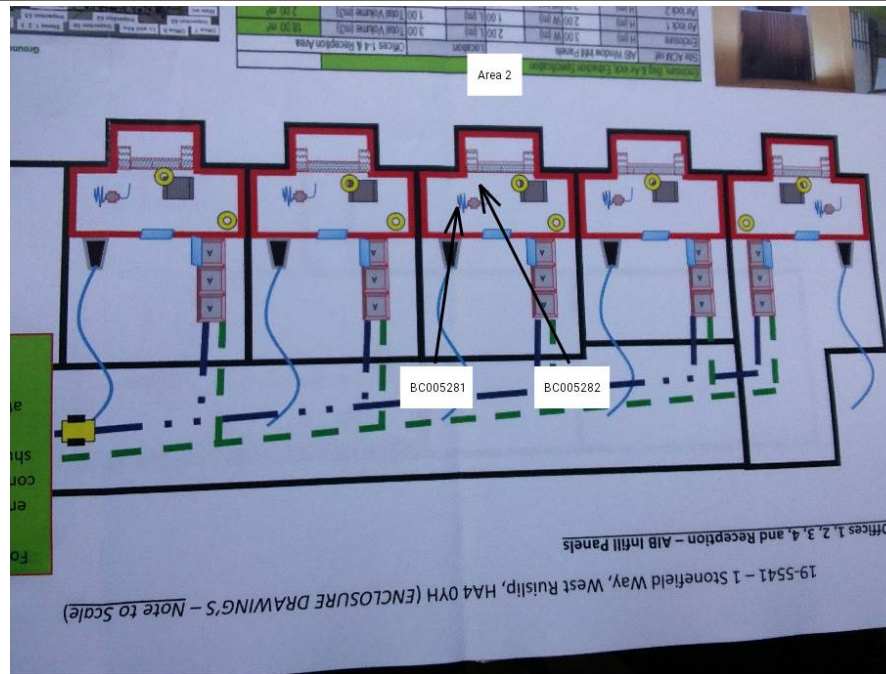
Result of Stage 4: PASSED

Analyst Name:	Ben Coleman	Analyst Signature:	
Date:	17 Oct 2019	Time:	
		10:32	

Final:**Following stages 1 – 4 this area is now classed as: SAFE FOR REOCCUPATION**

Analyst Name:	Ben Coleman	Analyst Signature:		
Date:	17 Oct 2019	Time:	10:32	
Site Supervisor Name:	C Brumm	Supervisor Signature:		
Date:	17 Oct 2019	Time:	10:32	

Appendix 1 – Site Plan



Width: N/A

Length: N/A

Height: N/A

Area: N/A

Analyst Name:	Ben Coleman	Analyst Signature:	
Date: Time:	17 Oct 2019 09:57		
Site Supervisor Name:	C Brumm	Supervisor Signature:	
Date: Time:	17 Oct 2019 09:57		

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Please note the witnessing of smoke tests is outside of the scope of UKAS accreditation.

Representatives Signature - The signatory on report acknowledgement agrees to findings of this report being accurate and correct.

Accuracy of Test Results

The above sampling has been undertaken in accordance with the current version of HSG248, and documented in house procedures. Using this method, the lowest limit of quantification LOQ for a 480l sample is 0.010f/ml with 200 fields counted. For volumes less than this, the LOQ is quoted.

Airflow measured on site is recorded against a correction chart. Flow meters are calibrated against a UKAS certified master flow meter accurate to $\pm 0.5\%$. In accordance with HSG248, if the combined effect of ambient temperature and pressure between calibration and sampling location exceeds 5% a correction is applied to the air sample volume.

The calculated fibre concentration is given for each air sample taken. Where the corresponding reported fibre concentration is preceded by '<', the lower limit of quantification (LOQ) of the method has not been reached.

Certificate of Reoccupation Report



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Full Circle Compliance

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CM3 2AG

Company Details

Email: info@fullcirclecompliance.co.uk

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Tel: 01245 690606

Job Details:

Name and address of client:	Inner City Environmental Unit 5 Schooner Park Crossways Business Park Dartford Kent DA2 6NW		
Name and address of site:	1 Stonefield Close Ruislip Middlesex HA4 0YH		
Work Type:	Stage 4 Clearance	Date of works:	18 Oct 2019
Location of Work Area(s):	Enclosure 2	Size of Area:	2m ² / 4m ³
Asbestos contractor representative:	George tomozei	Report issue date:	18 Oct 2019
Name of asbestos removal contractor:	Inner City Environmental		
Scope of works:	AIB removal, 2 x enclosure is approx. 2m(W) x 2m(L) x 4m(H)		

Analyst: Bernard Wilson

Signature:

A handwritten signature in black ink, appearing to read "Bernard Wilson".

Technically reviewed by: Bernard Wilson

Signature:

A handwritten signature in black ink, appearing to read "Bernard Wilson".

Stage 1: Preliminary check of site and job condition



Check the following to confirm they are still in place and operating:

Work Areas	Yes	Enclosures / NPU	Yes	Hygiene facilities	Yes
------------	-----	------------------	-----	--------------------	-----

Check the following to confirm free from debris, ACMs and waste sacks:

Work and Surrounding Areas	Yes	Transit route and hygiene facilities	Yes	Waste route and skip area	Yes
----------------------------	-----	--------------------------------------	-----	---------------------------	-----

Check the following to confirm:

Smoke tests carried out:	Yes	Leak tests carried out:	No	Viewing panels / CCTV present:	Yes
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Is a four stage clearance required to the DCU?

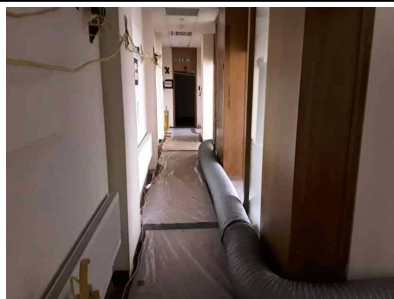
Stage 1 Comments

Satisfactory

Supporting Photographs



N/A



N/A



N/A



N/A

Result of Stage 1: PASSED

Analyst Name:	Bernard Wilson	Analyst Signature:		
Date:	18 Oct 2019	Time:	12:01	

Stage 2: Thorough visual inspection



Hygiene unit is free from waste, debris, dust, contaminated clothing etc:	Yes	Airlock and enclosure are free of waste bags, materials and unnecessary equipment:	Yes
All areas fully inspected (give details below of areas sheeted over / inaccessible):	Yes	All ACMs completely removed from underlying surfaces:	Yes
No visible dust / debris in enclosure, airlocks or work area:	Yes	Total time taken to complete visual inspection	9
Time Visual Started:	12:16	Time Visual Completed:	12:25

Stage 2 Comments

Screwholes taped off, Louvres sealed externally

Supporting Photographs

		No photographic evidence available.	No photographic evidence available.
Panels removed	floor clean		

Result of Stage 2: PASSED

Analyst Name:	Bernard Wilson	Analyst Signature:		
Date:	18 Oct 2019	Time:	12:25	

Stage 3: Clearance air monitoring certificate



Microscope No:		FCC241		Thermometer / Barometer No:		FCC017 /		Stage Micrometer:				NPL Test Slide No:			
Walton Beckett Graticule:		100µm		Temperature (°C):		17.0°C		Pressure (mb):		991.0mb		5th line of HSE / NPL test slide observed:		Yes	
High Flow meter No:				Low flow meter No:				Exposed filter diameter:		22.2mm		Slides stored in slide box no:		BW04	
Sample No	Sample Ref	Pump No	Cowl	Sampling Period		Flow Rate		Volume (litres) (V)	No of Graticule areas (n)	Fibres (N)	Concentration Fibres/ml	Reported Result fibres/ml	Limit of Quantification		
1	EE000191 / Field Blank	N/A	FCC252	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Field Blank				
				N/A		N/A									
2	EE000192 / within enclosure	FCC260	FCC253	12:26	35	14.0	14.0	490	196	4	0.0020	<0.01	0.010		
				13:01		14.0									
Duration of Brushing:		1.5		Flowmeter Correction Factor:		N/A		Analysis location:		Mobile Lab					
Analyst Name:		Bernard Wilson		Analyst Signature:								Date: Time:		18 Oct 2019 13:12	
Background Monitoring		Leakage Monitoring		Clearance Testing		Reassurance Monitoring		Suitability Monitoring		Compliance Monitoring		Field Blank			
BM		LM		CT		RM		SM		CM		FB			

Stage 3: Clearance air monitoring

Enclosure intact and interior dry:	Yes	Negative pressure units switched off and sealed prior to clearance air monitoring:	Yes
Size of area:	2 m ²	Number of samples collected:	

Stage 3 Comments

satisfactory

Supporting Photographs

	No photographic evidence available.	No photographic evidence available.	No photographic evidence available.
N/A			

Result of Stage 3: PASSED

Analyst Name:	Bernard Wilson	Analyst Signature:	
Date:	18 Oct 2019	Time:	13:12

Stage 4: Assessment of site for reoccupation



Work or former enclosure area is free from any visible debris, asbestos sacks and waste:	Yes
Transit route and waste area is free from all asbestos debris, waste sacks and waste:	Yes
No ACMs remain in the work or former enclosure area (except any detailed stage 1 of this report):	Yes
Stage 4 to be completed at a later date, at the request of the site supervisor:	No

Stage 4 Comments

Satisfactory. Waste/Transit route to remain for enclosure 5

Supporting Photographs

			No photographic evidence available.
	N/A	N/A	

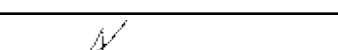
Result of Stage 4: PASSED

Analyst Name:	Bernard Wilson	Analyst Signature:	
Date:	18 Oct 2019	Time:	13:52

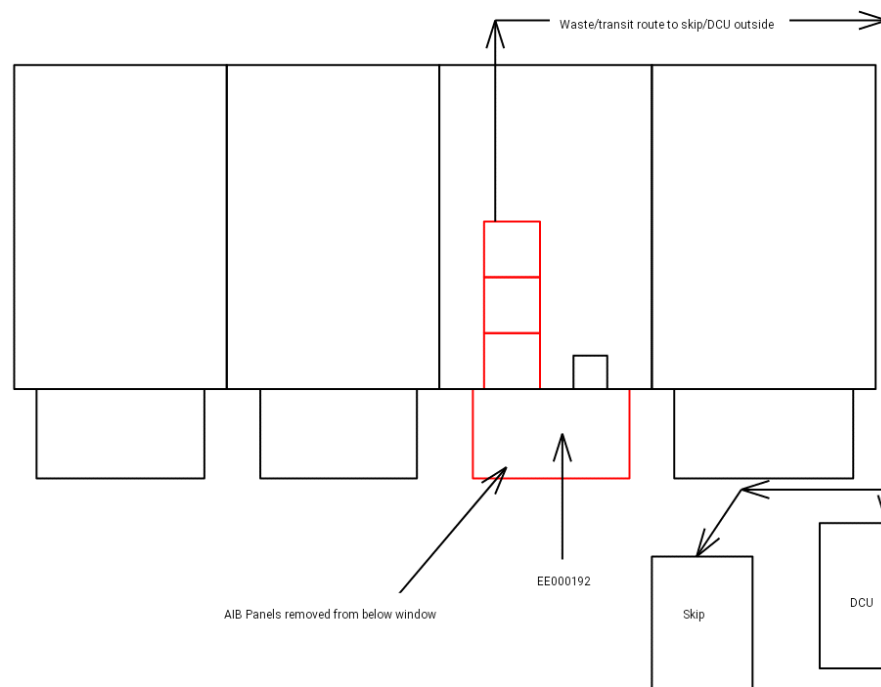
Final:



Following stages 1 – 4 this area is now classed as: SAFE FOR REOCCUPATION

Analyst Name:	Bernard Wilson	Analyst Signature:		
Date:	18 Oct 2019	Time:	13:52	
Site Supervisor Name:	George Tomozei	Supervisor Signature:		
Date:	18 Oct 2019	Time:	14:02	

Appendix 1 – Site Plan



Width: 2

Length: 1

Height: 2

Area: 2m²

Analyst Name:	Bernard Wilson	Analyst Signature:	
Date: Time:	18 Oct 2019 13:42		
Site Supervisor Name:	George tomozei	Supervisor Signature:	
Date: Time:	18 Oct 2019 13:44		

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Name of asbestos removal contractor:	Inner City Environmental		
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Analyst: Bernard Wilson

Signature:

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Technically reviewed by: Bernard Wilson

Signature:

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Stage 1: Preliminary check of site and job condition



Check the following to confirm they are still in place and operating:

Work Areas	Yes	Enclosures / NPU	Yes	Hygiene facilities	Yes
------------	-----	------------------	-----	--------------------	-----

Check the following to confirm free from debris, ACMs and waste sacks:

Work and Surrounding Areas	Yes	Transit route and hygiene facilities		Waste route and skip area	Yes
----------------------------	-----	--------------------------------------	--	---------------------------	-----

Check the following to confirm:

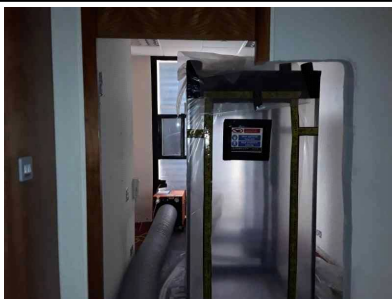
Smoke tests carried out:	Yes	Leak tests carried out:	No	Viewing panels / CCTV present:	Yes
--------------------------	-----	-------------------------	----	--------------------------------	-----

Is a four stage clearance required to the DCU?	DCU to remain on site
--	-----------------------

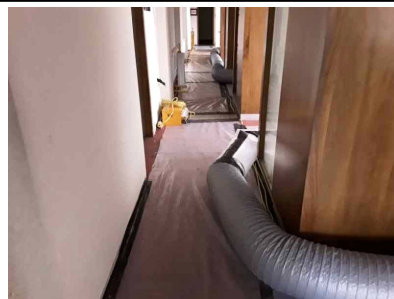
Stage 1 Comments

Satisfactory

Supporting Photographs



N/A



N/A



N/A



N/A

Result of Stage 1: PASSED

Analyst Name:	Bernard Wilson	Analyst Signature:		
Date:	18 Oct 2019	Time:	12:02	

Stage 2: Thorough visual inspection



Hygiene unit is free from waste, debris, dust, contaminated clothing etc:	Yes	Airlock and enclosure are free of waste bags, materials and unnecessary equipment:	Yes
All areas fully inspected (give details below of areas sheeted over / inaccessible):	Yes	All ACMs completely removed from underlying surfaces:	Yes
No visible dust / debris in enclosure, airlocks or work area:	Yes	Total time taken to complete visual inspection	10
Time Visual Started:	12:31	Time Visual Completed:	12:41

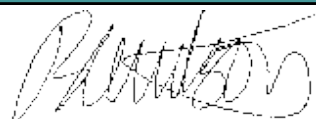
Stage 2 Comments

Satisfactory. windows covered with cordex, screws holes covered, louvres sealed externally.

Supporting Photographs

		No photographic evidence available.	No photographic evidence available.
Panels removed	floor clean		

Result of Stage 2: PASSED

Analyst Name:	Bernard Wilson	Analyst Signature:	
Date:	18 Oct 2019	Time:	
		12:41	

Stage 3: Clearance air monitoring certificate



Microscope No:		FCC241		Thermometer / Barometer No:		FCC017 /		Stage Micrometer:				NPL Test Slide No:			
Walton Beckett Graticule:		100µm		Temperature (°C):		15.8°C		Pressure (mb):		991.2mb		5th line of HSE / NPL test slide observed:		Yes	
High Flow meter No:				Low flow meter No:				Exposed filter diameter:		22.2mm		Slides stored in slide box no:		BW04	
Sample No	Sample Ref	Pump No	Cowl	Sampling Period		Flow Rate		Volume (litres) (V)	No of Graticule areas (n)	Fibres (N)	Concentration Fibres/ml	Reported Result fibres/ml	Limit of Quantification		
1	EE000193 / Field Blank	N/A	FCC254	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Field Blank				
				N/A		N/A									
2	EE000194 / within enclosure	FCC261	FCC255	12:42	35	14.0	14.0	490	196	5	0.0025	<0.01	0.010		
				13:17		14.0									
Duration of Brushing:		1.5		Flowmeter Correction Factor:		N/A		Analysis location:		Mobile Lab					
Analyst Name:		Bernard Wilson		Analyst Signature:							Date: Time:		18 Oct 2019 13:31		
Background Monitoring		Leakage Monitoring		Clearance Testing		Reassurance Monitoring		Suitability Monitoring		Compliance Monitoring		Field Blank			
BM		LM		CT		RM		SM		CM		FB			

Stage 3: Clearance air monitoring

Enclosure intact and interior dry:	Yes	Negative pressure units switched off and sealed prior to clearance air monitoring:	Yes
Size of area:	2 m ²	Number of samples collected:	

Stage 3 Comments

Satisfactory

Supporting Photographs

N/A

No photographic evidence available.

No photographic evidence available.

No photographic evidence available.

Result of Stage 3: PASSED

Analyst Name:	Bernard Wilson	Analyst Signature:	
Date:	18 Oct 2019	Time:	

13:31

Stage 4: Assessment of site for reoccupation

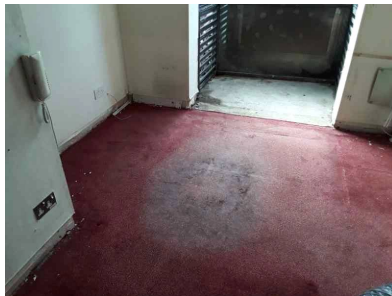


Work or former enclosure area is free from any visible debris, asbestos sacks and waste:	Yes
Transit route and waste area is free from all asbestos debris, waste sacks and waste:	Yes
No ACMs remain in the work or former enclosure area (except any detailed stage 1 of this report):	Yes
Stage 4 to be completed at a later date, at the request of the site supervisor:	No

Stage 4 Comments

Satisfactory. Waste/Transit route to remain for enclosure 5

Supporting Photographs

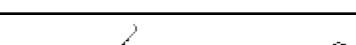
			No photographic evidence available.
N/A	N/A	N/A	

Result of Stage 4: PASSED

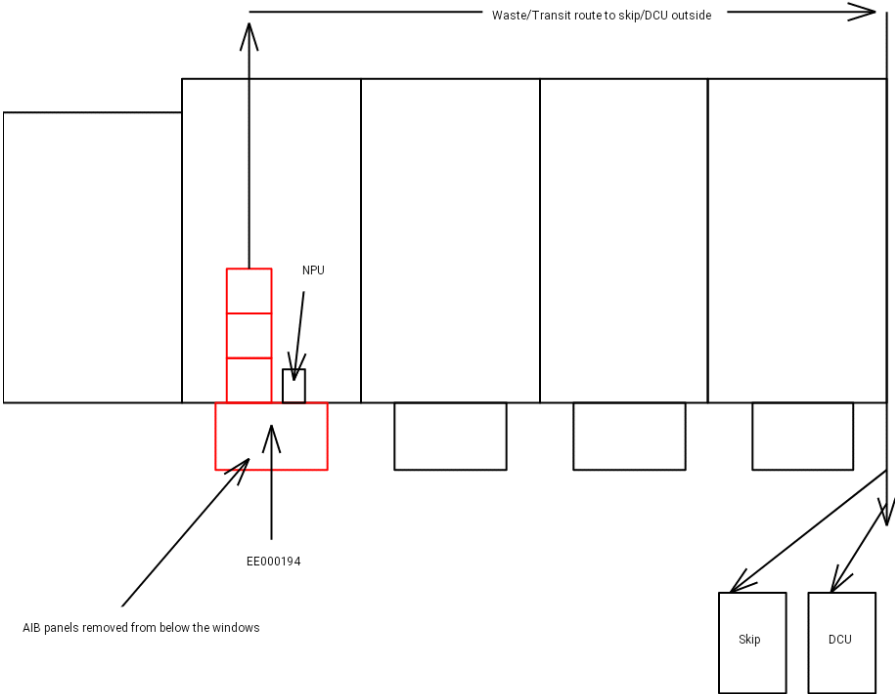
Analyst Name:	Bernard Wilson	Analyst Signature:	
Date:	18 Oct 2019	Time:	
		14:02	

Final:

Following stages 1 – 4 this area is now classed as: SAFE FOR REOCCUPATION

Analyst Name:	Bernard Wilson	Analyst Signature:		
Date:	18 Oct 2019	Time:	14:02	
Site Supervisor Name:	George Tomozei	Supervisor Signature:		
Date:	18 Oct 2019	Time:	14:02	

Appendix 1 – Site Plan



Width: 2

Length: 1

Height: 2

Area: 2m²

Analyst Name:	Bernard Wilson	Analyst Signature:	
Date: Time:	18 Oct 2019 14:01		
Site Supervisor Name:	George tomozei	Supervisor Signature:	
Date: Time:	18 Oct 2019 14:01		

Appendix 2 – Disclaimer



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This certificate or air test report is valid only when it bears the signature of an authorised member of Full Circle Compliance personnel.

Please note the witnessing of smoke tests is outside of the scope of UKAS accreditation.

Representatives Signature - The signatory on report acknowledgement agrees to findings of this report being accurate and correct.

Accuracy of Test Results

The above sampling has been undertaken in accordance with the current version of HSG248, and documented in house procedures. Using this method, the lowest limit of quantification LOQ for a 480l sample is 0.010f/ml with 200 fields counted. For volumes less than this, the LOQ is quoted.

Airflow measured on site is recorded against a correction chart. Flow meters are calibrated against a UKAS certified master flow meter accurate to $\pm 0.5\%$. In accordance with HSG248, if the combined effect of ambient temperature and pressure between calibration and sampling location exceeds 5% a correction is applied to the air sample volume.

The calculated fibre concentration is given for each air sample taken. Where the corresponding reported fibre concentration is preceded by '<', the lower limit of quantification (LOQ) of the method has not been reached.

Certificate of Reoccupation Report



1 Stonefield Close
Ruislip
Middlesex
HA4 0YH

Full Circle Compliance

Unit 12 Whitelands Business Park
Terling Road
Hatfield Peverel
Chelmsford
Essex
CM3 2AG

Company Details

Email: info@fullcirclecompliance.co.uk

Web: www.fullcirclecompliance.co.uk

Tel: 01245 690606

Job Details:

Name and address of client:	Inner City Environmental Unit 5 Schooner Park Crossways Business Park Dartford Kent DA2 6NW		
Name and address of site:	1 Stonefield Close Ruislip Middlesex HA4 0YH		
Work Type:	Stage 4 Clearance	Date of works:	21 Oct 2019
Location of Work Area(s):	Enclosure 5	Size of Area:	2m ² / 4m ³
Asbestos contractor representative:	George Tomozei	Report issue date:	21 Oct 2019
Name of asbestos removal contractor:	Inner City Environmental		
Scope of works:	AIB removal.		

Analyst: Bernard Wilson

Signature:

A handwritten signature in black ink, appearing to read "Bernard Wilson".

Technically reviewed by: Bernard Wilson

Signature:

A handwritten signature in black ink, appearing to read "Bernard Wilson".

Stage 1: Preliminary check of site and job condition



Check the following to confirm they are still in place and operating:

Work Areas	Yes	Enclosures / NPU	Yes	Hygiene facilities	Yes
------------	-----	------------------	-----	--------------------	-----

Check the following to confirm free from debris, ACMs and waste sacks:

Work and Surrounding Areas	Yes	Transit route and hygiene facilities	Yes	Waste route and skip area	Yes
----------------------------	-----	--------------------------------------	-----	---------------------------	-----

Check the following to confirm:

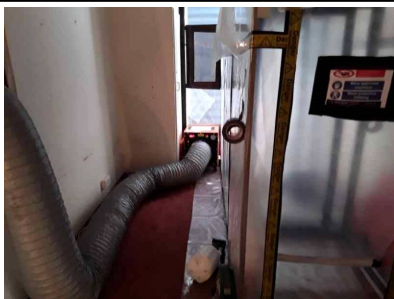
Smoke tests carried out:	Yes	Leak tests carried out:	No	Viewing panels / CCTV present:	Yes
--------------------------	-----	-------------------------	----	--------------------------------	-----

Is a four stage clearance required to the DCU?	DCU to remain on site
--	-----------------------

Stage 1 Comments

Satisfactory. All operational.

Supporting Photographs



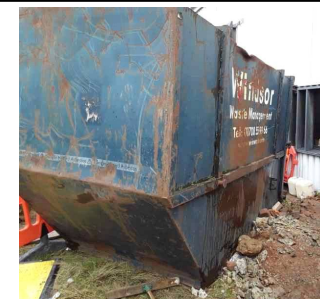
Airlocks



NPU operating



DCU



Skip

Result of Stage 1: PASSED

Analyst Name:	Bernard Wilson	Analyst Signature:	
Date:	21 Oct 2019	Time:	11:40

Stage 2: Thorough visual inspection



Hygiene unit is free from waste, debris, dust, contaminated clothing etc:	Yes	Airlock and enclosure are free of waste bags, materials and unnecessary equipment:	Yes
All areas fully inspected (give details below of areas sheeted over / inaccessible):	Yes	All ACMs completely removed from underlying surfaces:	Yes
No visible dust / debris in enclosure, airlocks or work area:	Yes	Total time taken to complete visual inspection	9
Time Visual Started:	11:50	Time Visual Completed:	11:59

Stage 2 Comments

Satisfactory. Screw holes sealed. Louvres sealed externally. Windows sealed.

Supporting Photographs

		No photographic evidence available.	No photographic evidence available.
AIB removed	Floor clean		

Result of Stage 2: PASSED

Analyst Name:	Bernard Wilson	Analyst Signature:	
Date:	21 Oct 2019	Time:	
		11:59	

Stage 3: Clearance air monitoring certificate



Microscope No:		FCC241		Thermometer / Barometer No:		FCC017 /		Stage Micrometer:				NPL Test Slide No:			
Walton Beckett Graticule:		100µm		Temperature (°C):		15.4°C		Pressure (mb):		1009.8mb		5th line of HSE / NPL test slide observed:		Yes	
High Flow meter No:				Low flow meter No:				Exposed filter diameter:		22.2mm		Slides stored in slide box no:		BW04	
Sample No	Sample Ref	Pump No	Cowl	Sampling Period		Flow Rate		Volume (litres) (V)	No of Graticule areas (n)	Fibres (N)	Concentration Fibres/ml	Reported Result fibres/ml	Limit of Quantification		
1	EE000195 / Field Blank	N/A	FCC230	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Field Blank				
				N/A		N/A									
2	EE000196 / Within enclosure	FCC260	FCC252	12:00	35	14.0	14.0	490	196	1	0.0005	<0.01	0.010		
				12:35		14.0									
Duration of Brushing:		1.5		Flowmeter Correction Factor:		N/A		Analysis location:		Mobile Lab					
Analyst Name:		Bernard Wilson		Analyst Signature:							Date: Time:		21 Oct 2019 12:57		
Background Monitoring		Leakage Monitoring		Clearance Testing		Reassurance Monitoring		Suitability Monitoring		Compliance Monitoring		Field Blank			
BM		LM		CT		RM		SM		CM		FB			

Stage 3: Clearance air monitoring

Enclosure intact and interior dry:	Yes	Negative pressure units switched off and sealed prior to clearance air monitoring:	Yes
Size of area:	2 m ²	Number of samples collected:	

Stage 3 Comments**Supporting Photographs**

	No photographic evidence available.	No photographic evidence available.	No photographic evidence available.
N/A			

Result of Stage 3: PASSED

Analyst Name:	Bernard Wilson	Analyst Signature:	
Date:	21 Oct 2019	Time:	
		12:57	

Stage 4: Assessment of site for reoccupation

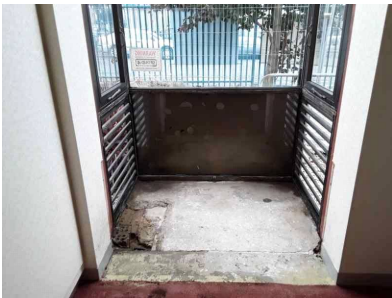
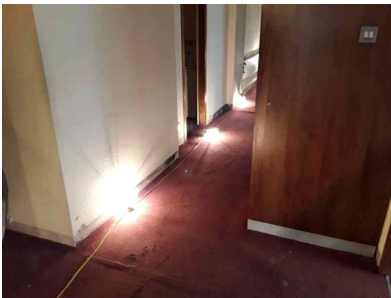
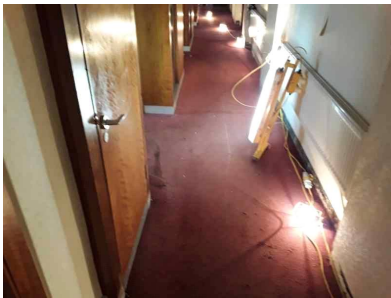


Work or former enclosure area is free from any visible debris, asbestos sacks and waste:	Yes
Transit route and waste area is free from all asbestos debris, waste sacks and waste:	Yes
No ACMs remain in the work or former enclosure area (except any detailed stage 1 of this report):	Yes
Stage 4 to be completed at a later date, at the request of the site supervisor:	No

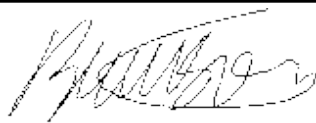
Stage 4 Comments

Satisfactory. Part of polythene to remain for transit route to boiler room.

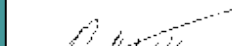
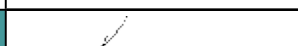
Supporting Photographs

			
Former enclosure	former enclosure	former transit route	former transit route

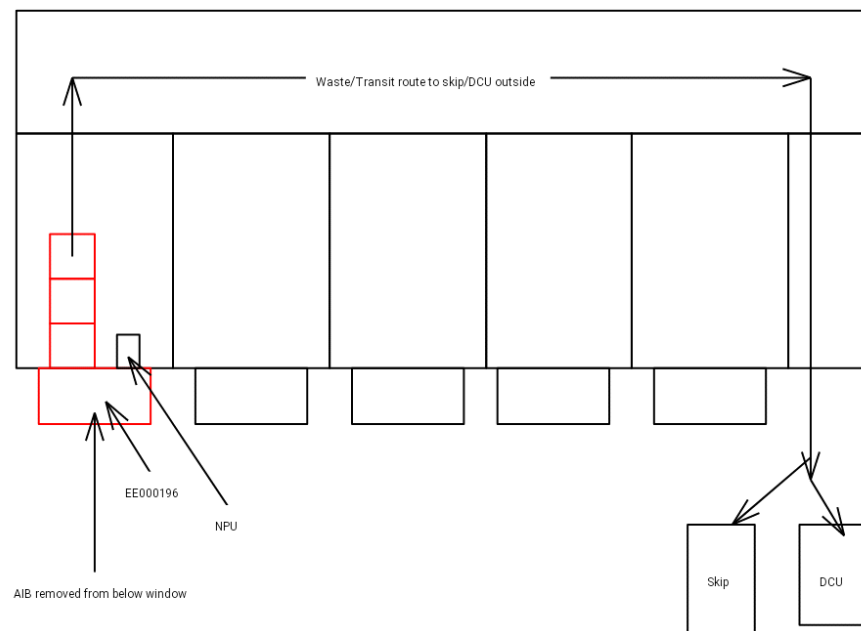
Result of Stage 4: PASSED

Analyst Name:	Bernard Wilson	Analyst Signature:		
Date:	21 Oct 2019	Time:	13:25	

Final:**Following stages 1 – 4 this area is now classed as: SAFE FOR REOCCUPATION**

Analyst Name:	Bernard Wilson	Analyst Signature:		
Date:	21 Oct 2019	Time:	13:26	
Site Supervisor Name:	George Tomozei	Supervisor Signature:		
Date:	21 Oct 2019	Time:	13:26	

Appendix 1 – Site Plan



Width: 2

Length: 1

Height: 2

Area: 2m²

Analyst Name:	Bernard Wilson	Analyst Signature:	
Date: Time:	21 Oct 2019 13:22		
Site Supervisor Name:	George Tomozei	Supervisor Signature:	
Date: Time:	21 Oct 2019 13:22		

Appendix 2 – Disclaimer



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Please note the witnessing of smoke tests is outside of the scope of UKAS accreditation.

Representatives Signature - The signatory on report acknowledgement agrees to findings of this report being accurate and correct.

Accuracy of Test Results

The above sampling has been undertaken in accordance with the current version of HSG248, and documented in house procedures. Using this method, the lowest limit of quantification LOQ for a 480l sample is 0.010f/ml with 200 fields counted. For volumes less than this, the LOQ is quoted.

Airflow measured on site is recorded against a correction chart. Flow meters are calibrated against a UKAS certified master flow meter accurate to $\pm 0.5\%$. In accordance with HSG248, if the combined effect of ambient temperature and pressure between calibration and sampling location exceeds 5% a correction is applied to the air sample volume.

The calculated fibre concentration is given for each air sample taken. Where the corresponding reported fibre concentration is preceded by '<', the lower limit of quantification (LOQ) of the method has not been reached.

Certificate of Reoccupation Report



1 Stonefield Close
Ruislip
Middlesex
HA4 0YH

Full Circle Compliance

Unit 12 Whitelands Business Park
Terling Road
Hatfield Peverel
Chelmsford
Essex
CM3 2AG

Company Details

Email: info@fullcirclecompliance.co.uk

Web: www.fullcirclecompliance.co.uk

Tel: 01245 690606

Job Details:

Name and address of client:	Inner City Environmental Unit 5 Schooner Park Crossways Business Park Dartford Kent DA2 6NW		
Name and address of site:	1 Stonefield Close Ruislip Middlesex HA4 0YH		
Work Type:	Stage 4 Clearance	Date of works:	23 Oct 2019
Location of Work Area(s):	Basement	Size of Area:	16.0m ² / 64.0m ³
Asbestos contractor representative:	George Tomozei	Report issue date:	23 Oct 2019
Name of asbestos removal contractor:	Inner City Environmental		
Scope of works:	within a boiler room (thermal Insulation residue). The area is just to the rear wall, approx. 24m ²		

Analyst: Ben Coleman

Signature:

A handwritten signature in black ink, consisting of a large, stylized 'B' followed by a horizontal line and a small flourish.

Technically reviewed by: Ben Coleman

Signature:

Stage 1: Preliminary check of site and job condition



Check the following to confirm they are still in place and operating:

Work Areas	Yes	Enclosures / NPU	Yes	Hygiene facilities	Yes
------------	-----	------------------	-----	--------------------	-----

Check the following to confirm free from debris, ACMs and waste sacks:

Work and Surrounding Areas	Yes	Transit route and hygiene facilities	Yes	Waste route and skip area	Yes
----------------------------	-----	--------------------------------------	-----	---------------------------	-----

Check the following to confirm:

Smoke tests carried out:	N/A	Leak tests carried out:	N/A	Viewing panels / CCTV present:	Yes
--------------------------	-----	-------------------------	-----	--------------------------------	-----

Is a four stage clearance required to the DCU?	DCU to remain on site
--	-----------------------

Stage 1 Comments

Supporting Photographs



Airlocks



Viewing Panel



NPU



DCU

Result of Stage 1: PASSED

Analyst Name:	Ben Coleman	Analyst Signature:		
Date:	23 Oct 2019	Time:	08:49	

Stage 2: Thorough visual inspection



Hygiene unit is free from waste, debris, dust, contaminated clothing etc:	Yes	Airlock and enclosure are free of waste bags, materials and unnecessary equipment:	Yes
All areas fully inspected (give details below of areas sheeted over / inaccessible):	Yes	All ACMs completely removed from underlying surfaces:	Yes
No visible dust / debris in enclosure, airlocks or work area:	No	Total time taken to complete visual inspection	37
Time Visual Started:	09:27	Time Visual Completed:	10:02

Stage 2 Comments

No visible residue remains to rear wall following hand scraping. All other surfaces are adequately cleaned. No inspections have been behind painted surfaces throughout.

Supporting Photographs

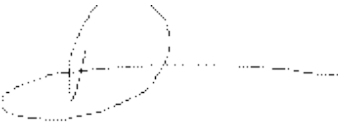
			
N/A	N/A	N/A	N/A

Result of Stage 2: PASSED

Analyst Name:	Ben Coleman	Analyst Signature:	
Date:	23 Oct 2019	Time:	
		10:02	

Stage 3: Clearance air monitoring certificate

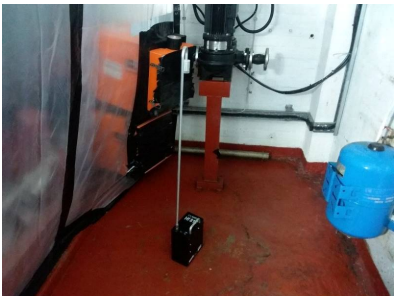


Microscope No:		FCC034		Thermometer / Barometer No:		/		Stage Micrometer:		FCC116		NPL Test Slide No:		FCC090	
Walton Beckett Graticule:		100µm		Temperature (°C):		11°C		Pressure (mb):		1001.1mb		5th line of HSE / NPL test slide observed:		Yes	
High Flow meter No:		FCC115		Low flow meter No:				Exposed filter diameter:		22.2mm		Slides stored in slide box no:		BC14	
Sample No	Sample Ref	Pump No	Cowl	Sampling Period		Flow Rate		Volume (litres) (V)	No of Graticule areas (n)	Fibres (N)	Concentration Fibres/ml	Reported Result fibres/ml	Limit of Quantification		
Start End	Total (Mins)	Start End	Total (L/min)												
1	BC005321 / Field Blank	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Field Blank				
				N/A		N/A									
2	BC005322 / Within Enclosure	FCC212	FCC155	10:03	40	12.0	12.0	480	200	3.5	0.0017	<0.010	0.010		
				10:43		12.0									
3	BC005323 / Within Enclosure	FCC213	FCC014	10:03	40	12.0	12.0	480	200	5	0.0025	<0.010	0.010		
				10:43		12.0									
Duration of Brushing:		3.0		Flowmeter Correction Factor:		N/A		Analysis location:		Mobile Lab					
Analyst Name:		Ben Coleman		Analyst Signature:								Date: Time:		23 Oct 2019 10:51	
Background Monitoring		Leakage Monitoring		Clearance Testing		Reassurance Monitoring		Suitability Monitoring		Compliance Monitoring		Field Blank			
BM		LM		CT		RM		SM		CM		FB			

Stage 3: Clearance air monitoring

Enclosure intact and interior dry:	Yes	Negative pressure units switched off and sealed prior to clearance air monitoring:	Yes
Size of area:	64 m ³	Number of samples collected:	

Stage 3 Comments**Supporting Photographs**

			No photographic evidence available.
Sealed NPU	Clearance Air Sample	Clearance Air Sample	

Result of Stage 3: PASSED

Analyst Name:	Ben Coleman	Analyst Signature:	
Date:	23 Oct 2019	Time:	

Stage 4: Assessment of site for reoccupation



Work or former enclosure area is free from any visible debris, asbestos sacks and waste:	Yes
Transit route and waste area is free from all asbestos debris, waste sacks and waste:	Yes
No ACMs remain in the work or former enclosure area (except any detailed stage 1 of this report):	No
Stage 4 to be completed at a later date, at the request of the site supervisor:	No

Stage 4 Comments

Satisfactory

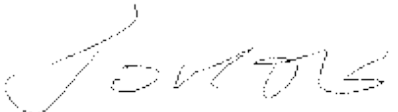
Supporting Photographs

			
Former Work Area	Former Work Area	Former Work Area	Former Work Area

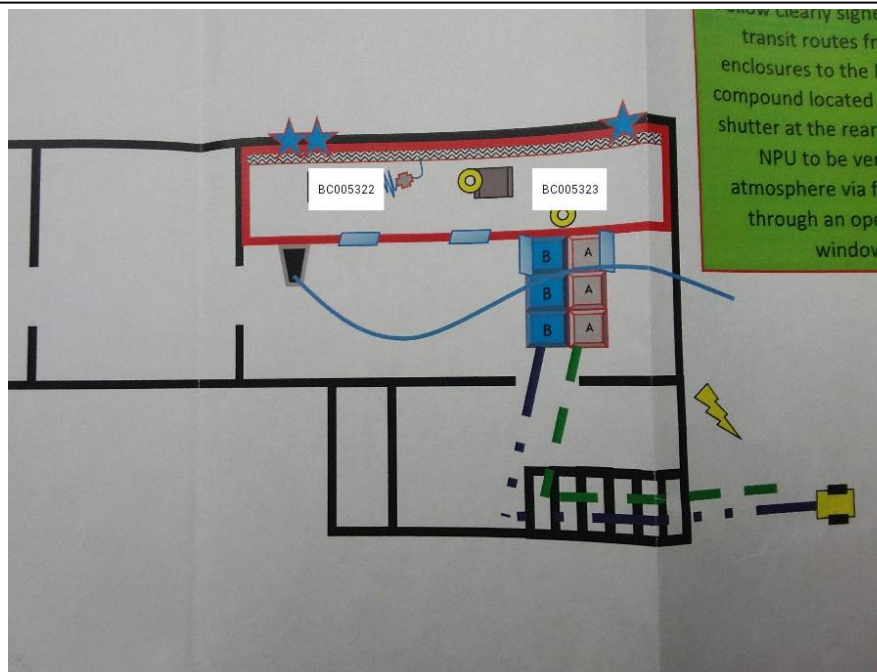
Result of Stage 4: PASSED

Analyst Name:	Ben Coleman	Analyst Signature:		
Date:	23 Oct 2019	Time:	11:20	

Final:**Following stages 1 – 4 this area is now classed as: SAFE FOR REOCCUPATION**

Analyst Name:	Ben Coleman	Analyst Signature:		
Date:	23 Oct 2019	Time:	11:20	
Site Supervisor Name:	George tomozei	Supervisor Signature:		
Date:	23 Oct 2019	Time:	11:20	

Appendix 1 – Site Plan



Width: 2

Length: 8.0

Height: 4

Area: 16.0m²

Analyst Name:	Ben Coleman	Analyst Signature:	
Date: Time:	23 Oct 2019 08:51		
Site Supervisor Name:	George tomozei	Supervisor Signature:	
Date: Time:	23 Oct 2019 08:51		

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Representatives Signature - The signatory on report acknowledgement agrees to findings of this report being accurate and correct.

Accuracy of Test Results

The above sampling has been undertaken in accordance with the current version of HSG248, and documented in house procedures. Using this method, the lowest limit of quantification LOQ for a 480l sample is 0.010f/ml with 200 fields counted. For volumes less than this, the LOQ is quoted.

Airflow measured on site is recorded against a correction chart. Flow meters are calibrated against a UKAS certified master flow meter accurate to $\pm 0.5\%$. In accordance with HSG248, if the combined effect of ambient temperature and pressure between calibration and sampling location exceeds 5% a correction is applied to the air sample volume.

The calculated fibre concentration is given for each air sample taken. Where the corresponding reported fibre concentration is preceded by '<', the lower limit of quantification (LOQ) of the method has not been reached.

Certificate of Reoccupation Report



1 Stonefield Close
Ruislip
Middlesex
HA4 0YH

Full Circle Compliance

Unit 12 Whitelands Business Park
Terling Road
Hatfield Peverel
Chelmsford
Essex
CM3 2AG

Company Details

Email: info@fullcirclecompliance.co.uk

Web: www.fullcirclecompliance.co.uk

Tel: 01245 690606

Job Details:

Name and address of client:	Inner City Environmental Unit 5 Schooner Park Crossways Business Park Dartford Kent DA2 6NW		
Name and address of site:	1 Stonefield Close Ruislip Middlesex HA4 0YH		
Work Type:	Stage 4 Clearance	Date of works:	1 Nov 2019
Location of Work Area(s):	External window panels	Size of Area:	49.0m ² / 392.0m ³
Asbestos contractor representative:	George Tomozei	Report issue date:	1 Nov 2019
Name of asbestos removal contractor:	Inner City Environmental		
Scope of works:	4 stage clearance on an AIB window panel enclosure (8 windows) on scaffolding		

Analyst: Kyle Wilson

Signature:

A handwritten signature in black ink, appearing to read "Kyle Wilson".

Technically reviewed by: Kyle Wilson

Signature:

A handwritten signature in black ink, appearing to read "Kyle Wilson".

Stage 1: Preliminary check of site and job condition



Check the following to confirm they are still in place and operating:

Work Areas	Yes	Enclosures / NPU	Yes	Hygiene facilities	Yes
------------	-----	------------------	-----	--------------------	-----

Check the following to confirm free from debris, ACMs and waste sacks:

Work and Surrounding Areas	Yes	Transit route and hygiene facilities	Yes	Waste route and skip area	Yes
----------------------------	-----	--------------------------------------	-----	---------------------------	-----

Check the following to confirm:

Smoke tests carried out:	Yes	Leak tests carried out:	No	Viewing panels / CCTV present:	Yes
--------------------------	-----	-------------------------	----	--------------------------------	-----

Is a four stage clearance required to the DCU?	Yes
--	-----

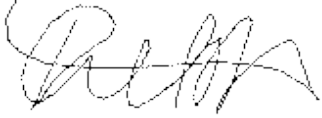
Stage 1 Comments

Satisfactory.

Supporting Photographs

	No photographic evidence available.	No photographic evidence available.	No photographic evidence available.
N/A			

Result of Stage 1: PASSED

Analyst Name:	Kyle Wilson	Analyst Signature:	
Date:	1 Nov 2019	Time:	
		11:36	

Stage 2: Thorough visual inspection

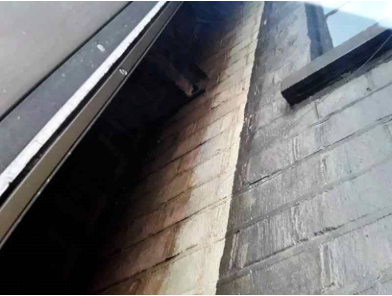


Hygiene unit is free from waste, debris, dust, contaminated clothing etc:	Yes	Airlock and enclosure are free of waste bags, materials and unnecessary equipment:	Yes
All areas fully inspected (give details below of areas sheeted over / inaccessible):	Yes	All ACMs completely removed from underlying surfaces:	Yes
No visible dust / debris in enclosure, airlocks or work area:	No	Total time taken to complete visual inspection	50
Time Visual Started:	11:34	Time Visual Completed:	12:24

Stage 2 Comments

Satisfactory.

Supporting Photographs

			
N/A	N/A	N/A	N/A

Result of Stage 2: PASSED

Analyst Name:	Kyle Wilson	Analyst Signature:	
Date:	1 Nov 2019	Time:	12:24

Stage 3: Clearance air monitoring certificate



Microscope No:	FCC130	Thermometer / Barometer No:	FCC176 /	Stage Micrometer:	FCC177	NPL Test Slide No:	FCC178
Walton Beckett Graticule:	100µm	Temperature (°C):	14°C	Pressure (mb):	1028mb	5th line of HSE / NPL test slide observed:	Yes
High Flow meter No:	FCC175	Low flow meter No:		Exposed filter diameter:	22.2mm	Slides stored in slide box no:	KW09

Sample No	Sample Ref	Pump No	Cowl	Sampling Period		Flow Rate		Volume (litres) (V)	No of Graticule areas (n)	Fibres (N)	Concentration Fibres/ml	Reported Result fibres/ml	Limit of Quantification
				Start	Total	Start	Total						
				End	(Mins)	End	(L/min)						
1	AA001907 / Field Blank	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Field Blank		
2	AA001908 / upon first level of enclosure	FCC163	N/A	12:25	40	12.0	12.0	480	200	3	0.0015	<0.01	0.010
				13:05		12.0							
3	AA001909 / upon first level of enclosure	FCC161	N/A	12:25	40	12.0	12.0	480	200	3	0.0015	<0.01	0.010
				13:05		12.0							
4	AA001910 / upon second level of enclosure	FCC162	N/A	12:25	40	12.0	12.0	480	200	5	0.0025	<0.01	0.010
				13:05		12.0							
5	AA001911 / upon second level of enclosure	FCC160	N/A	12:25	40	12.0	12.0	480	200	4	0.0020	<0.01	0.010
				13:05		12.0							

Duration of Brushing:	6.0	Flowmeter Correction Factor:	0	Analysis location:	Mobile Lab
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Analyst Name:	Kyle Wilson	Analyst Signature:		Date: Time:	1 Nov 2019 13:37
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Background Monitoring	Leakage Monitoring	Clearance Testing	Reassurance Monitoring	Suitability Monitoring	Compliance Monitoring	Field Blank
BM	LM	CT	RM	SM	CM	FB

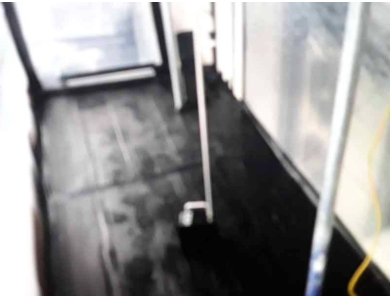
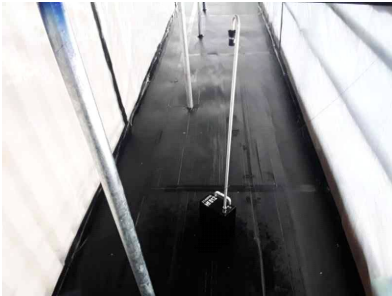
Stage 3: Clearance air monitoring

Enclosure intact and interior dry:	Yes	Negative pressure units switched off and sealed prior to clearance air monitoring:	Yes
Size of area:	392 m ³	Number of samples collected:	

Stage 3 Comments

Satisfactory.

Supporting Photographs

			
N/A	N/A	N/A	N/A

Result of Stage 3: PASSED

Analyst Name:	Kyle Wilson	Analyst Signature:	
Date:	1 Nov 2019	Time: 13:37	

Stage 4: Assessment of site for reoccupation

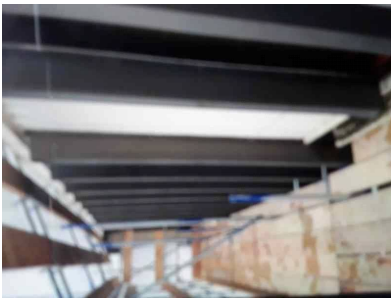


Work or former enclosure area is free from any visible debris, asbestos sacks and waste:	Yes
Transit route and waste area is free from all asbestos debris, waste sacks and waste:	Yes
No ACMs remain in the work or former enclosure area (except any detailed stage 1 of this report):	No
Stage 4 to be completed at a later date, at the request of the site supervisor:	No

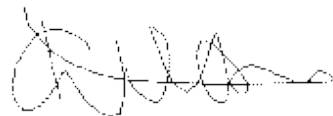
Stage 4 Comments

Satisfactory.

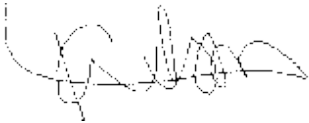
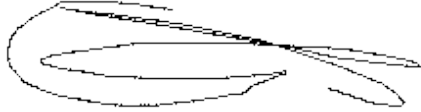
Supporting Photographs

			
N/A	N/A	N/A	N/A

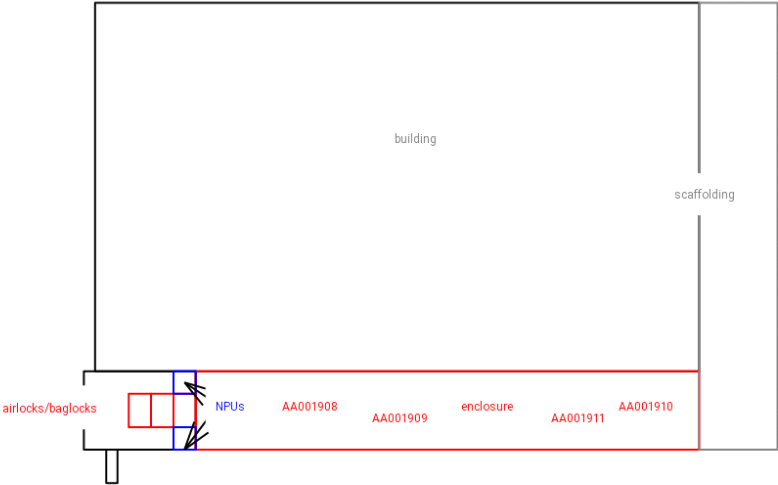
Result of Stage 4: PASSED

Analyst Name:	Kyle Wilson	Analyst Signature:	
Date:	1 Nov 2019	Time:	15:04

Final:**Following stages 1 – 4 this area is now classed as: SAFE FOR REOCCUPATION**

Analyst Name:	Kyle Wilson	Analyst Signature:		
Date:	1 Nov 2019	Time:	15:04	
Site Supervisor Name:	Gheorghe Tomozei	Supervisor Signature:		
Date:	1 Nov 2019	Time:	16:02	

Appendix 1 – Site Plan



Width: 1.4
Length: 35
Height: 8
Area: 49.0m²

Analyst Name:	Kyle Wilson	Analyst Signature:	
Date: Time:	[RESULTS47DATE] [RESULTS47TIME]		
Site Supervisor Name:	N/A	Supervisor Signature:	
Date: Time:	N/A N/A		

Appendix 2 – Disclaimer



Opinions and interpretations contained within this report are outside the scope of UKAS accreditation.

This certificate or air test report is valid only when it bears the signature of an authorised member of Full Circle Compliance personnel.

Please note the witnessing of smoke tests is outside of the scope of UKAS accreditation.

Representatives Signature - The signatory on report acknowledgement agrees to findings of this report being accurate and correct.

Accuracy of Test Results

The above sampling has been undertaken in accordance with the current version of HSG248, and documented in house procedures. Using this method, the lowest limit of quantification LOQ for a 480l sample is 0.010f/ml with 200 fields counted. For volumes less than this, the LOQ is quoted.

Airflow measured on site is recorded against a correction chart. Flow meters are calibrated against a UKAS certified master flow meter accurate to $\pm 0.5\%$. In accordance with HSG248, if the combined effect of ambient temperature and pressure between calibration and sampling location exceeds 5% a correction is applied to the air sample volume.

The calculated fibre concentration is given for each air sample taken. Where the corresponding reported fibre concentration is preceded by '<', the lower limit of quantification (LOQ) of the method has not been reached.

Air Monitoring Report

1 Stonefield Close
Ruislip
Middlesex
HA4 0YH



Full Circle Compliance

Unit 12 Whitelands Business Park
Terling Road
Hatfield Peverel
Chelmsford
Essex
CM3 2AG

Company Details

Email: info@fullcirclecompliance.co.uk

Web: www.fullcirclecompliance.co.uk

Tel: 01245 690606

Job Details:

Name and address of client:	Inner City Environmental Unit 5 Schooner Park Crossways Business Park Dartford Kent DA2 6NW		
Name and address of site:	1 Stonefield Close Ruislip Middlesex HA4 0YH		
Work Type:	Standard	Date of works:	28 Nov 2019
Location of Work Area(s):	Derelict Warehouse	Size of Area:	0m ² / 0m ³
Asbestos contractor representative:	.	Report issue date:	28 Nov 2019
Name of asbestos removal contractor:	Inner City Environmental		
Scope of works:	Personals and backgrounds Removal of A/C sheets		

Analyst: Lewis Harrison

Signature:

A handwritten signature in black ink, appearing to be "L. Harrison", written over a horizontal line.

Technically reviewed by: Lewis Harrison

Signature:

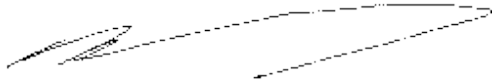
A handwritten signature in black ink, appearing to be "L. Harrison", written over a horizontal line.

Air monitoring certificate



Microscope No:	FCC237	Thermometer / Barometer No:	/	Stage Micrometer:	FCC070	NPL Test Slide No:	FCC087
Walton Beckett Graticule:	100µm	Temperature (°C):	11°C	Pressure (mb):	991.4mb	5th line of HSE / NPL test slide observed:	Yes
High Flow meter No:	FCC007	Low flow meter No:		Exposed filter diameter:	22.2 mm	Slides stored in slide box no:	10

Sample No	Sample Ref	Sample Type	Pump No	Sampling Period		Flow Rate		Volume (litres) (V)	No of Graticule areas (n)	Fibres (N)	Concentration Fibres/ml	Reported Result fibres/ml	Limit of Quantification
				Start End	Total (Mins)	Start End	Total (L/min)						
1	BW002429 / Field Blank	FB	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Field Blank		
2	BW002430 / Outside ocado entrance	BT	FCC072	12:00	40	12.0	12.0	480	200	0.5	0.0002	<0.01	0.010
				12:40		12.0							
3	BW002431 / Adjacent to building works	BT	FCC074	12:00	40	12.0	12.0	480	200	1	0.0005	<0.01	0.010
				12:40		12.0							
4	BW002432 / Adjacent to building works 2	BT	FCC075	12:00	40	12.0	12.0	480	200	1.5	0.0007	<0.01	0.010
				12:40		12.0							
5	BW002433 / Outside ocado entrance	BT	FCC105	12:45	40	12.0	12.0	480	200	1.5	0.0007	<0.01	0.010
				13:25		12.0							
6	BW002434 / Adjacent to building works	BT	FCC106	12:45	40	12.0	12.0	480	200	2	0.0010	<0.01	0.010
				13:25		12.0							
7	BW002435 / Adjacent to building works 2	BT	FCC153	12:45	40	12.0	12.0	480	200	1.5	0.0007	<0.01	0.010
				13:25		12.0							

Flowmeter Correction Factor:	N/A	Analysis location:	Site Vehicle	
Analyst Name:	Lewis Harrison	Analyst Signature:		
		Date:	28 Nov 2019	
		Time:	17:00	

FB - Field Blank / **BT** - Background Test / **RT** - Reassurance Test / **LT** - Leak Test / **CT** - Clearance Test / **PT** - Personal Test

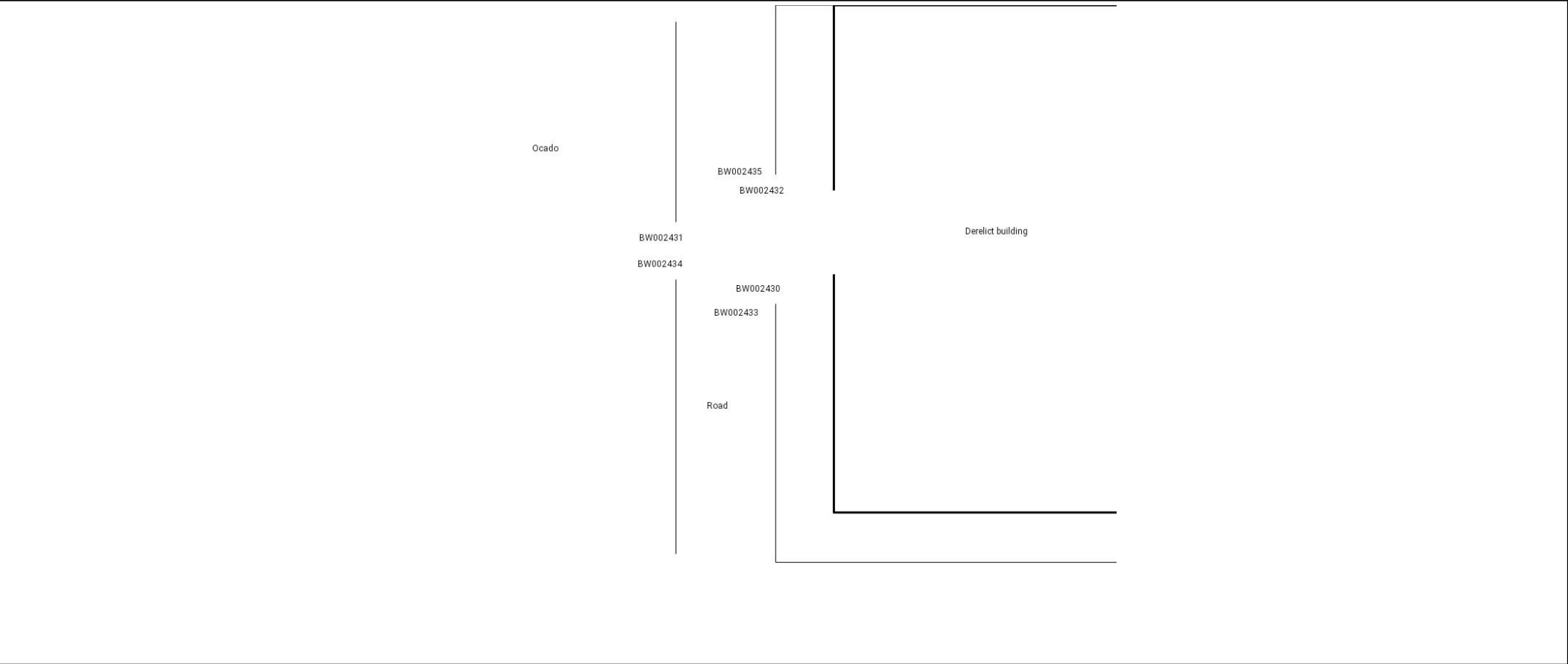
Air monitoring certificate



COMMENTS:

Satisfactory

Appendix 1 – Site Plan



Analyst Name:	Lewis Harrison	Analyst Signature:	
Date/Time:	28 Nov 2019 17:00		
Site Supervisor Name:	.	Supervisor Signature:	
Date/Time:	28 Nov 2019 17:00		

Appendix 2 – Photographs



			
N/A	N/A	N/A	N/A
	No photographic evidence available.	No photographic evidence available.	No photographic evidence available.
N/A			
No photographic evidence available.	No photographic evidence available.	No photographic evidence available.	No photographic evidence available.

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Airflow measured on site is recorded against a correction chart. Flow meters are calibrated against a UKAS certified master flow meter accurate to $\pm 0.5\%$. In accordance with HSG248, if the combined effect of ambient temperature and pressure between calibration and sampling location exceeds 5% a correction is applied to the air sample volume.

The calculated fibre concentration is given for each air sample taken. Where the corresponding reported fibre concentration is preceded by '<', the lower limit of quantification (LOQ) of the method has not been reached.

RESULTS SCREENING TABLE

Analytical Report Number			Analytical Report Number: 20-92341						Analytical Report Number: 20-04608				
Above Ground Storage Tank (AST)			AST1 (validation samples taken by Ecologia)						AST2 (validation samples taken by Magrock)				
Sample Reference			AST1a	AST1b	AST1c	AST1d	AST1e	AST1composite	A	B	C	D	E
Date Sampled			11/03/2020	11/03/2020	11/03/2020	11/03/2020	11/03/2020	11/03/2020	22/04/2020	22/04/2020	22/04/2020	22/04/2020	22/04/2020
Analytical Parameter (Soil Analysis)	Units	RTC (Commercial)											

Monoaromatics & Oxygenates

Benzene	µg/kg	28	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Toluene	µg/kg	860	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/kg	520	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
p & m-xylene	µg/kg	480	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
o-xylene	µg/kg	480	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	3200	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	7800	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	2000	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	9700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	59000	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	1600000	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	17	30	< 10	< 10	< 10
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	1600000	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 30	< 30	< 30	< 30	< 30

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	26000	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	56000	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	3500	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	16000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	36000	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	28000	< 10	< 10	< 10	< 10	< 10	< 10	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	28000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 30	< 30	< 30	< 30	< 30

Analytical Report Number			20-93637	20-04608
Above Ground Storage Tank (AST)			AST1	AST2
Sample Reference			AST1composite	F
Date Sampled			11/03/2020	22/04/2020
Analytical Parameter (Soil Analysis)	Units	DWS / WHO		

Monoaromatics & Oxygenates

Benzene	µg/l	1	< 1.0	< 2.0
Toluene	µg/l	NA	< 1.0	< 5.0
Ethylbenzene	µg/l	NA	< 1.0	< 2.0
p & m-xylene	µg/l	NA	< 1.0	< 2.0
o-xylene	µg/l	NA	< 1.0	< 2.0
MTBE (Methyl Tertiary Butyl Ether)	µg/l	NA	< 10	< 5.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	µg/l	15,000	< 1.0	< 10
TPH-CWG - Aliphatic >EC6 - EC8	µg/l	15,000	< 1.0	< 10
TPH-CWG - Aliphatic >EC8 - EC10	µg/l	300	< 1.0	< 10
TPH-CWG - Aliphatic >EC10 - EC12	µg/l	300	< 10	< 10
TPH-CWG - Aliphatic >EC12 - EC16	µg/l	300	< 10	< 10
TPH-CWG - Aliphatic >EC16 - EC21	µg/l	NA	< 10	11
TPH-CWG - Aliphatic >EC21 - EC35	µg/l	NA	< 10	< 10
TPH-CWG - Aliphatic (EC5 - EC35)	µg/l	NA	< 10	< 70

TPH-CWG - Aromatic >EC5 - EC7	µg/l	10	< 1.0	< 10
TPH-CWG - Aromatic >EC7 - EC8	µg/l	700	< 1.0	< 10
TPH-CWG - Aromatic >EC8 - EC10	µg/l	300	< 1.0	< 10
TPH-CWG - Aromatic >EC10 - EC12	µg/l	90	< 10	< 10
TPH-CWG - Aromatic >EC12 - EC16	µg/l	90	< 10	< 10
TPH-CWG - Aromatic >EC16 - EC21	µg/l	90	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35	µg/l	90	< 10	< 10
TPH-CWG - Aromatic (EC5 - EC35)	µg/l	NA	< 10	< 70

APPENDIX V

LABORATORY CERTIFICATES

Site Analytical Services Ltd.



Site Investigations, Analytical & Environmental Chemists, Laboratory Testing Services.

Units 14 + 15, River Road Business Park,
33 River Road, Barking, Essex IG11 0EA

Directors: J. S. Warren, M.R.S.C., P. C. Warren, J. I. Pattinson, BSc (Hons) MSc
Consultants: G. Evans, BSc., M.Sc., P.G. Dip., FGS., MEnvSc. A. J. Kingston, BSc C.Eng. MIMM
F. J. Gibbs, F.I.B.M.S. F.I.F.S.T., F.R.S.H. K. J. Blanchette

Tel: 0208 594 8134
Fax: 0208 594 8072
E-Mail: services@siteanalytical.co.uk

Your Ref:

ORDER NO. AWAITED
DEL WYER

Our Ref:

19/31203-5
JSW/LB

SAMPLES OF 'CRUSHED CONCRETE' – DOT CLASS 6F2
RE: SOUTH RUISLIP

SUBMITTED BY DOWNWELL DEMOLITION LIMITED

RECEIVED ON 13th NOVEMBER 2019

INTRODUCTION

Four samples of the above material were received into the laboratory for screening for the presence of asbestos and quantification, if present.

The samples were referenced Nos. 1 to 4 inclusive.

RESULTS

The samples were sub-contracted to i2 Analytical Limited (a UKAS accredited laboratory) and their report is contained in the Appendix to this report.

COMMENTS

Asbestos was not detected in any of the samples submitted.

p.p. SITE ANALYTICAL SERVICES LIMITED

26th November 2019

Aubrey Davidson BSc (Hons) MSc DIC
Environmental Engineer



Reg. Office: Units 14 +15, River Road Business Park,
33 River Road, Barking, Essex IG11 0EA
Business Reg. No. 2255616





Site Analytical Services Ltd.

A P P E N D I X

Laboratory Test Data



Environmental Science

Aubrey Davidson

Site Analytical Services Ltd
Units 14 -15
River Road Business Park
33 River Road
Barking
Essex
IG11 0EA

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green Business Park,
Watford,
Herts,
WD18 8YS

t: 0208 5948134
f: 0208 5948072
e: SAS -

t: 01923 225404
f: 01923 237404
e: reception@i2analytical.com

Analytical Report Number : 19-72441

Project / Site name:	Stonefield Close, South Ruislip	Samples received on:	18/11/2019
Your job number:	19-31203	Samples instructed on:	18/11/2019
Your order number:	6354	Analysis completed by:	25/11/2019
Report Issue Number:	1	Report issued on:	25/11/2019
Samples Analysed:	4 soil samples		

Signed: *A. Czerwińska*

Agnieszka Czerwińska

Technical Reviewer (Reporting Team)
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.

Iss No 19-72441-1 Stonefield Close, South Ruislip 19-31203

This certificate should not be reproduced, except in full, without the express permission of the laboratory.
The results included within the report are representative of the samples submitted for analysis.

Page 1 of 4



Environmental Science

Analytical Report Number: 19-72441

Project / Site name: Stonefield Close, South Ruislip

Your Order No: 6354

Lab Sample Number				1365035	1365036	1365037	1365038	
Sample Reference				Sample 1	Sample 2	Sample 3	Sample 4	
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	
Date Sampled				Deviating	Deviating	Deviating	Deviating	
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		
Asbestos in Soil Screen				Type	N/A	ISO 17025	Not-detected	Not-detected
							Not-detected	Not-detected

Iss No 19-72441-1 Stonefield Close, South Ruislip 19-31203

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The results included within the report are representative of the samples submitted for analysis.



Analytical Report Number : 19-72441

Project / Site name: Stonefield Close, South Ruislip

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Sample Deviation Report



Sample ID	Other ID	Sample Type	Job	Sample Number	Sample Deviation Code	test_name	test_ref	Test Deviation code
Sample 1		S	19-72441	1365035 a				
Sample 2		S	19-72441	1365036 a				
Sample 3		S	19-72441	1365037 a				
Sample 4		S	19-72441	1365038 a				

Key: a - No sampling date b - Incorrect container
c - Holding time d - Headspace e - Temperature

**Rachael Cains**

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Business Park,
Watford,
Herts,
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Analytical Report Number : 20-92341

Project / Site name:	Ruislip Magrock	Samples received on:	12/03/2020
Your job number:	19.251.1	Samples instructed on:	12/03/2020
Your order number:	72504	Analysis completed by:	19/03/2020
Report Issue Number:	1	Report issued on:	19/03/2020
Samples Analysed:	6 soil samples		

Signed: 

Zina Abdul Razzak
Senior Quality Specialist

For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :	soils	- 4 weeks from reporting
	leachates	- 2 weeks from reporting
	waters	- 2 weeks from reporting
	asbestos	- 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 20-92341

Project / Site name: Ruislip Magrock

Your Order No: 72504

Lab Sample Number				1470938	1470939	1470940	1470941	1470942
Sample Reference				AST1a	AST1b	AST1c	AST1d	AST1e
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				11/03/2020	11/03/2020	11/03/2020	11/03/2020	11/03/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	21	19	20	22	19
Total mass of sample received	kg	0.001	NONE	0.52	0.52	0.50	0.53	0.52

Monoaromatics & Oxygenates

Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10

Analytical Report Number: 20-92341

Project / Site name: Ruislip Magrock

Your Order No: 72504

Lab Sample Number				1470943				
Sample Reference				AST1composite				
Sample Number				None Supplied				
Depth (m)				None Supplied				
Date Sampled				11/03/2020				
Time Taken				None Supplied				
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1				
Moisture Content	%	N/A	NONE	16				
Total mass of sample received	kg	0.001	NONE	0.97				

Monoaromatics & Oxygenates

Benzene	µg/kg	1	MCERTS	< 1.0				
Toluene	µg/kg	1	MCERTS	< 1.0				
Ethylbenzene	µg/kg	1	MCERTS	< 1.0				
p & m-xylene	µg/kg	1	MCERTS	< 1.0				
o-xylene	µg/kg	1	MCERTS	< 1.0				
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0				

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001				
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001				
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001				
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0				
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0				
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0				
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0				
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10				

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001				
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001				
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001				
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0				
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0				
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10				
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10				
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10				

Analytical Report Number : 20-92341

Project / Site name: Ruislip Magrock

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1470938	AST1a	None Supplied	None Supplied	Light brown clay and sand with gravel.
1470939	AST1b	None Supplied	None Supplied	Light brown clay and sand with gravel.
1470940	AST1c	None Supplied	None Supplied	Light brown clay and sand with gravel.
1470941	AST1d	None Supplied	None Supplied	Light brown clay and sand with gravel.
1470942	AST1e	None Supplied	None Supplied	Light brown clay and sand with gravel.
1470943	AST1composit	None Supplied	None Supplied	Light brown clay and sand with gravel.

Analytical Report Number : 20-92341

Project / Site name: Ruislip Magrock

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L0738-PL	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
TPH Chromatogram in Soil	TPH Chromatogram in Soil.	In-house method	L064-PL	D	NONE
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L088/76-PL	W	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

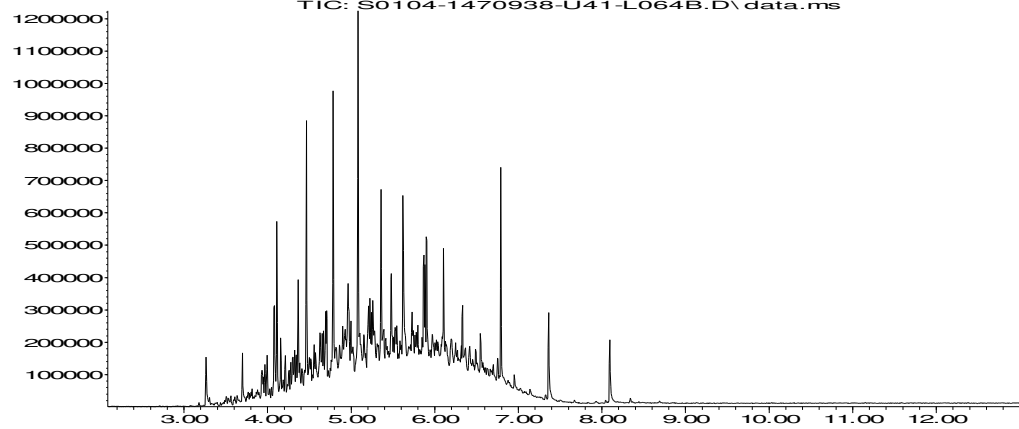
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Sample ID	Other ID	Sample Type	Job	Sample Number	Sample Deviation Code	test_name	test_ref	Test Deviation code
AST1composite		S	20-92341	1470943	b	BTEX and MTBE in soil (Monoaromatics)	L073B-PL	b
AST1composite		S	20-92341	1470943	b	TPH Chromatogram in Soil	L064-PL	b
AST1composite		S	20-92341	1470943	b	TPHCWG (Soil)	L088/76-PL	b

Abundance

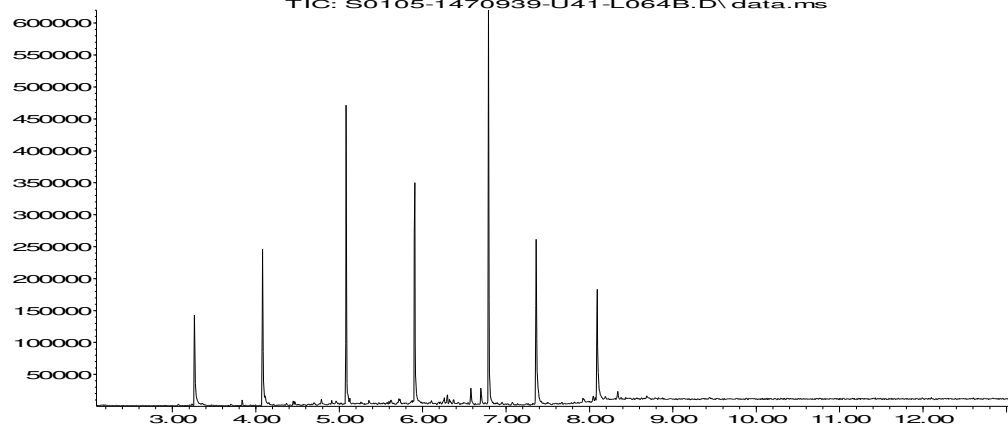
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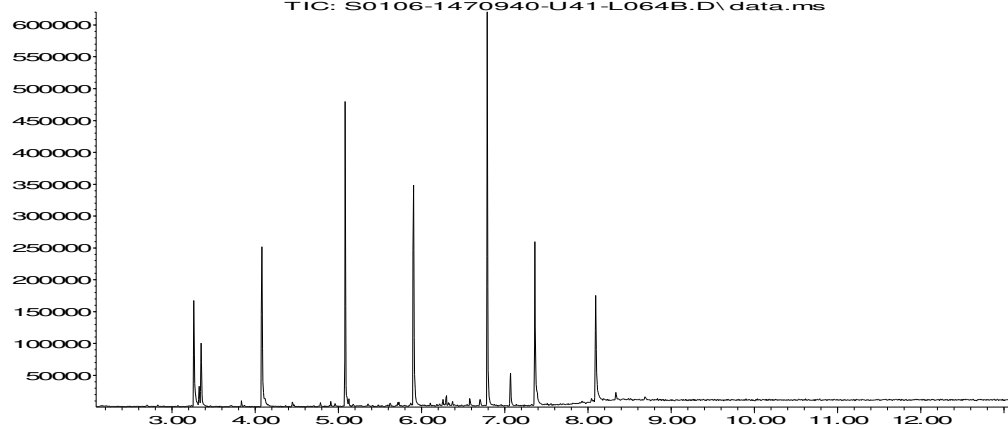
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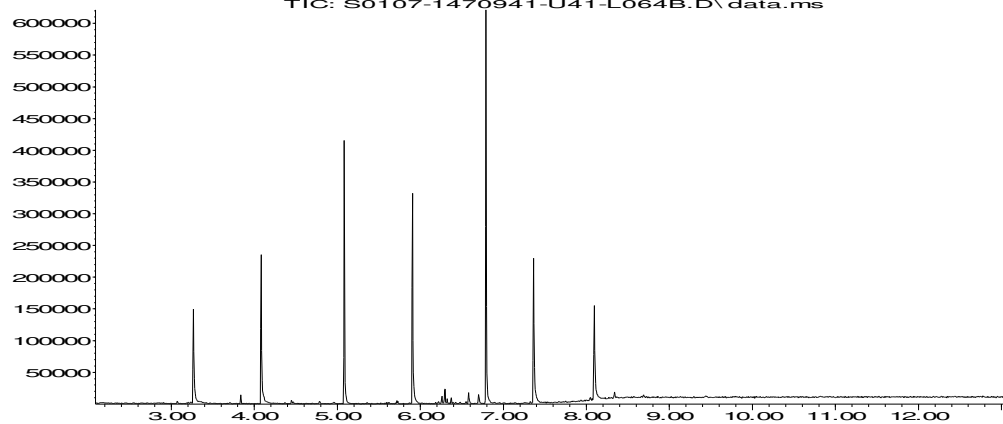
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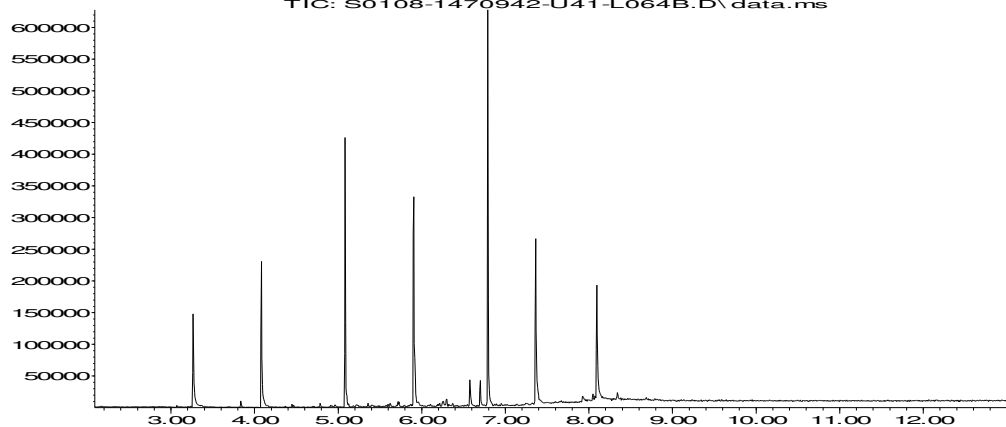
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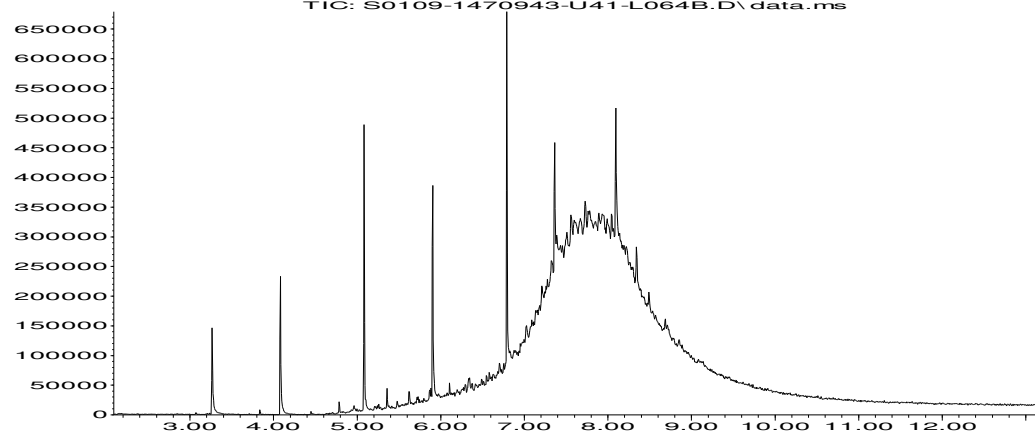
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Time-->

Abundance

TIC: S0109-1470943-U41-L064B.D\data.ms



Time-->

**Rachael Cains**

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Analytical Report Number : 20-93637

Project / Site name:	Ruislip Magrock	Samples received on:	12/03/2020
Your job number:	19.251.1	Samples instructed on:	19/03/2020
Your order number:	72504	Analysis completed by:	26/03/2020
Report Issue Number:	1	Report issued on:	26/03/2020
Samples Analysed:	1 leachate sample		

Signed:

Zina Abdul Razzak
Senior Quality Specialist

For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.



Analytical Report Number: 20-93637
Project / Site name: Ruislip Magrock

Your Order No: 72504

Lab Sample Number				1477769				
Sample Reference				AST1composite				
Sample Number				None Supplied				
Depth (m)				None Supplied				
Date Sampled				11/03/2020				
Time Taken				None Supplied				
Analytical Parameter (Leachate Analysis)				Units	Limit of detection	Accreditation Status		

Monoaromatics & Oxygenates

Benzene	µg/l	1	ISO 17025	< 1.0				
Toluene	µg/l	1	ISO 17025	< 1.0				
Ethylbenzene	µg/l	1	ISO 17025	< 1.0				
p & m-xylene	µg/l	1	ISO 17025	< 1.0				
o-xylene	µg/l	1	ISO 17025	< 1.0				
MTBE (Methyl Tertiary Butyl Ether)	µg/l	10	NONE	< 10				

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >C5 - C6	µg/l	1	ISO 17025	< 1.0				
TPH-CWG - Aliphatic >C6 - C8	µg/l	1	ISO 17025	< 1.0				
TPH-CWG - Aliphatic >C8 - C10	µg/l	1	ISO 17025	< 1.0				
TPH-CWG - Aliphatic >C10 - C12	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C12 - C16	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C16 - C21	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C21 - C35	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic (C5 - C35)	µg/l	10	NONE	< 10				

TPH-CWG - Aromatic >C5 - C7	µg/l	1	ISO 17025	< 1.0				
TPH-CWG - Aromatic >C7 - C8	µg/l	1	ISO 17025	< 1.0				
TPH-CWG - Aromatic >C8 - C10	µg/l	1	ISO 17025	< 1.0				
TPH-CWG - Aromatic >C10 - C12	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C12 - C16	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C16 - C21	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C21 - C35	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic (C5 - C35)	µg/l	10	NONE	< 10				



Analytical Report Number : 20-93637

Project / Site name: Ruislip Magrock

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
BTEX and MTBE in leachates (Monoaromatics)	Determination of BTEX and MTBE in leachates by headspace GC-MS.	In-house method based on USEPA8260	L0738-PL	W	ISO 17025
NRA Leachate Prep	10:1 extract with de-ionised water shaken for 24 hours then filtered.	In-house method based on National Rivers Authority	L020-PL	W	NONE
TPH Chromatogram in Leachate	TPH Chromatogram in Leachate.	In-house method	L070-PL	W	NONE
TPHCWG (Leachates)	Determination of dichloromethane extractable hydrocarbons in leachate by GC-MS.	In-house method	L070-PL	W	NONE

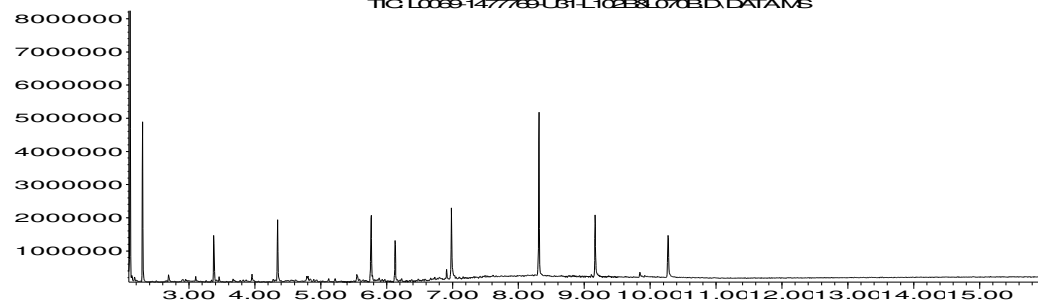
For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Abundance

TIC L0089-147769-UB1-L10288-0703.D.DATAMS



Time-->



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ME17 2JN
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DETS Report No: 20-04608

Site Reference: Stonefield Way, Ruislip

Project / Job Ref: 1042813

Order No: E-003299

Sample Receipt Date: 23/04/2020

Sample Scheduled Date: 23/04/2020

Report Issue Number: 1

Reporting Date: 27/04/2020

Authorised by:

Kevin Old
General Manager

Dates of laboratory activities for each tested analyte are available upon request.

Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.



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Unit 1, Rose Lane Industrial Estate
Rose Lane
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Maidstone
Kent ME17 2JN
Tel : 01622 850410



Soil Analysis Certificate - TPH LQM Banded

DETS Report No: 20-04608	Date Sampled	22/04/20	22/04/20	22/04/20	22/04/20	22/04/20
CET UK Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Stonefield Way, Ruislip	TP / BH No	A	B	C	D	E
Project / Job Ref: 1042813	Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: E-003299	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 27/04/2020	DETS Sample No	474169	474170	474171	474172	474173

Determinand	Unit	RL	Accreditation					
Aliphatic >C5 - C6	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic >C6 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aliphatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aliphatic >C12 - C16	mg/kg	< 3	MCERTS	< 3	< 3	< 3	< 3	< 3
Aliphatic >C16 - C35	mg/kg	< 10	MCERTS	17	30	< 10	< 10	< 10
Aliphatic >C35 - C44	mg/kg	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aliphatic (C5 - C44)	mg/kg	< 30	NONE	< 30	30	< 30	< 30	< 30
Aromatic >C5 - C7	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic >C7 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aromatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aromatic >C12 - C16	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aromatic >C16 - C21	mg/kg	< 3	MCERTS	< 3	< 3	< 3	< 3	< 3
Aromatic >C21 - C35	mg/kg	< 10	MCERTS	< 10	< 10	< 10	< 10	< 10
Aromatic >C35 - C44	mg/kg	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aromatic (>C5 - C44)	mg/kg	< 30	NONE	< 30	< 30	< 30	< 30	< 30
Total >C5 - C44	mg/kg	< 60	NONE	< 60	< 60	< 60	< 60	< 60



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Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 20-04608	Date Sampled	22/04/20	22/04/20	22/04/20	22/04/20	22/04/20
CET UK Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Stonefield Way, Ruislip	TP / BH No	A	B	C	D	E
Project / Job Ref: 1042813	Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: E-003299	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 27/04/2020	DETS Sample No	474169	474170	474171	474172	474173

Determinand	Unit	RL	Accreditation					
Benzene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Toluene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
Ethylbenzene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
p & m-xylene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
o-xylene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
MTBE	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5



DETS Ltd
Unit 1, Rose Lane Industrial Estate
Rose Lane
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Maidstone
Kent ME17 2JN
Tel : 01622 850410

Leachate Analysis Certificate - TPH LQM Banded						
DETS Report No: 20-04608	Date Sampled	22/04/20				
CET UK Ltd	Time Sampled	None Supplied				
Site Reference: Stonefield Way, Ruislip	TP / BH No	F				
Project / Job Ref: 1042813	Additional Refs	None Supplied				
Order No: E-003299	Depth (m)	None Supplied				
Reporting Date: 27/04/2020	DETS Sample No	474174				

Determinand	Unit	RL	Accreditation				
Aliphatic >C5 - C6	ug/l	< 10	NONE	< 10			
Aliphatic >C6 - C8	ug/l	< 10	NONE	< 10			
Aliphatic >C8 - C10	ug/l	< 10	NONE	< 10			
Aliphatic >C10 - C12	ug/l	< 10	NONE	< 10			
Aliphatic >C12 - C16	ug/l	< 10	NONE	< 10			
Aliphatic >C16 - C35	ug/l	< 10	NONE	11			
Aliphatic >C35 - C44	ug/l	< 10	NONE	< 10			
Aliphatic (C5 - C44)	ug/l	< 70	NONE	< 70			
Aromatic >C5 - C7	ug/l	< 10	NONE	< 10			
Aromatic >C7 - C8	ug/l	< 10	NONE	< 10			
Aromatic >C8 - C10	ug/l	< 10	NONE	< 10			
Aromatic >C10 - C12	ug/l	< 10	NONE	< 10			
Aromatic >C12 - C16	ug/l	< 10	NONE	< 10			
Aromatic >C16 - C21	ug/l	< 10	NONE	< 10			
Aromatic >C21 - C35	ug/l	< 10	NONE	< 10			
Aromatic >C35 - C44	ug/l	< 10	NONE	< 10			
Aromatic (>C5 - C44)	ug/l	< 70	NONE	< 70			
Total >C5 - C44	ug/l	< 140	NONE	< 140			



DETS Ltd
Unit 1, Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN
Tel : 01622 850410



Leachate Analysis Certificate - BTEX / MTBE						
DETS Report No: 20-04608	Date Sampled	22/04/20				
CET UK Ltd	Time Sampled	None Supplied				
Site Reference: Stonefield Way, Ruislip	TP / BH No	F				
Project / Job Ref: 1042813	Additional Refs	None Supplied				
Order No: E-003299	Depth (m)	None Supplied				
Reporting Date: 27/04/2020	DETS Sample No	474174				

Determinand	Unit	RL	Accreditation				
Benzene	ug/l	< 1	ISO17025	< 1			
Toluene	ug/l	< 5	ISO17025	< 5			
Ethylbenzene	ug/l	< 5	ISO17025	< 5			
p & m-xylene	ug/l	< 10	ISO17025	< 10			
o-xylene	ug/l	< 5	ISO17025	< 5			
MTBE	ug/l	< 10	ISO17025	< 10			



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Soil Analysis Certificate - Sample Descriptions

DETS Report No: 20-04608	
CET UK Ltd	
Site Reference: Stonefield Way, Ruislip	
Project / Job Ref: 1042813	
Order No: E-003299	
Reporting Date: 27/04/2020	

DETS Sample No	TP / BH No	Additional Refs	Depth (m)	Moisture Content (%)	Sample Matrix Description
474169	A	None Supplied	None Supplied	4.2	Light brown sand with stones
474170	B	None Supplied	None Supplied	3.3	Light brown sand with stones
474171	C	None Supplied	None Supplied	10.4	Brown sandy clay with stones
474172	D	None Supplied	None Supplied	7.7	Brown sand with stones
474173	E	None Supplied	None Supplied	12.4	Brown sandy clay with stones

Moisture content is part of procedure E003 & is not an accredited test

Insufficient Sample ^{1/5}

& samples received in inappropriate containers for hydrocarbon analysis



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Soil Analysis Certificate - Methodology & Miscellaneous Information

DETS Report No: 20-04608

CET UK Ltd

Site Reference: Stonefield Way, Ruislip

Project / Job Ref: 1042813

Order No: E-003299

Reporting Date: 27/04/2020

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water & analysed by ion chromatography	E009
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	E016
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E011
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of water followed by electrometric measurement	E023
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by GC-MS	E020
Soil	AR	EPH (C10 - C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E004
Soil	D	Fluoride - Water Soluble	Determination of Fluoride by extraction with water & analysed by ion chromatography	E009
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	D	Loss on Ignition @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Nitrate - Water Soluble (2:1)	Determination of nitrate by extraction with water & analysed by ion chromatography	E009
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E021
Soil	D	Phosphate - Water Soluble (2:1)	Determination of phosphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of sulphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	AR	Sulphide	Determination of sulphide by distillation followed by colorimetry	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia followed by ICP-OES	E024
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E011
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	TPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MS	E004
Soil	AR	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS	E004
Soil	AR	VOCs	Determination of volatile organic compounds by headspace GC-MS	E001
Soil	AR	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E001

D Dried
AR As Received



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Water Analysis Certificate - Methodology & Miscellaneous Information	
DETS Report No: 20-04608	
CET UK Ltd	
Site Reference: Stonefield Way, Ruislip	
Project / Job Ref: 1042813	
Order No: E-003299	
Reporting Date: 27/04/2020	

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Water	UF	Alkalinity	Determination of alkalinity by titration against hydrochloric acid using bromocresol green as the end point	E103
Water	UF	BTEX	Determination of BTEX by headspace GC-MS	E101
Water	F	Cations	Determination of cations by filtration followed by ICP-MS	E102
Water	UF	Chemical Oxygen Demand (COD)	Determination using a COD reactor followed by colorimetry	E112
Water	F	Chloride	Determination of chloride by filtration & analysed by ion chromatography	E109
Water	F	Chromium - Hexavalent	Determination of hexavalent chromium by acidification, addition of 1,5 diphenylcarbazide followed by	E116
Water	UF	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E115
Water	UF	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E115
Water	UF	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E115
Water	UF	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through liquid:liquid extraction with cyclohexane	E111
Water	F	Diesel Range Organics (C10 - C24)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	Dissolved Organic Content (DOC)	Determination of DOC by filtration followed by low heat with persulphate addition followed by IR detection	E110
Water	UF	Electrical Conductivity	Determination of electrical conductivity by electrometric measurement	E123
Water	F	EPH (C10 - C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E104
Water	F	Fluoride	Determination of Fluoride by filtration & analysed by ion chromatography	E109
Water	F	Hardness	Determination of Ca and Mg by ICP-MS followed by calculation	E102
Leachate	F	Leachate Preparation - NRA	Based on National Rivers Authority leaching test 1994	E301
Leachate	F	Leachate Preparation - WAC	Based on BS EN 12457 Pt1, 2, 3	E302
Water	F	Metals	Determination of metals by filtration followed by ICP-MS	E102
Water	F	Mineral Oil (C10 - C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	Nitrate	Determination of nitrate by filtration & analysed by ion chromatography	E109
Water	UF	Monohydric Phenol	Determination of phenols by distillation followed by colorimetry	E121
Water	F	PAH - Speciated (EPA 16)	Determination of PAH compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E105
Water	F	PCB - 7 Congeners	Determination of PCB compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E108
Water	UF	Petroleum Ether Extract (PEE)	Gravimetrically determined through liquid:liquid extraction with petroleum ether	E111
Water	UF	pH	Determination of pH by electrometric measurement	E107
Water	F	Phosphate	Determination of phosphate by filtration & analysed by ion chromatography	E109
Water	UF	Redox Potential	Determination of redox potential by electrometric measurement	E113
Water	F	Sulphate (as SO ₄)	Determination of sulphate by filtration & analysed by ion chromatography	E109
Water	UF	Sulphide	Determination of sulphide by distillation followed by colorimetry	E118
Water	F	SVOC	Determination of semi-volatile organic compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E106
Water	UF	Toluene Extractable Matter (TEM)	Gravimetrically determined through liquid:liquid extraction with toluene	E111
Water	UF	Total Organic Carbon (TOC)	Low heat with persulphate addition followed by IR detection	E110
Water	F	TPH CWG (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C35. C5 to C8 by headspace GC-MS	E104
Water	F	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C44. C5 to C8 by headspace GC-MS	E104
Water	UF	VOCs	Determination of volatile organic compounds by headspace GC-MS	E101
Water	UF	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E101

Key

F Filtered
UF Unfiltered



SOCOTEC

Environmental Chemistry
SOCOTEC UK
Ashby Rd, Bretby,
Burton-on-Trent, UK
DE15 0YZ

Certificate of Analysis

Project No: 20030300

Client: SOCOTEC Materials Testing

Quote Number: BEC20037212

Project Reference: UXB0483174

Site Name: UXB0483174 Stonefield Way

Contact: Mohammed Jaffer

Address: Unit 11
Cowley Mill Trading Estate
Longbridge Way
Uxbridge

Post Code: UB8 2YG

E-Mail: Mohammed.Jaffer@socotec.com

Phone No: 07796 148469

Number of Samples Received: 3

Date Received: 21/03/2020

Analysis Date: 02/04/2020

Date Issued: 02/04/2020

Job Status: Complete

Account Manager
Jacqui Hannah

Authorised by the Operations Manager
Becky Batham



Client: SOCOTEC Materials Testing

Project Name: UXB0483174 Stonefield Way

Project No: 20030300

Date Issued: 02/04/2020

Samples Analysed

Sample Reference	Text ID	Sample Date	Sample Type
25869483 - Stockpile	20030300-001	17/03/2020 00:00:00	SOLID
25869484 - Stockpile	20030300-002	17/03/2020 00:00:00	SOLID
25869485 - Stockpile	20030300-003	17/03/2020 00:00:00	SOLID



Client: SOCOTEC Materials Testing
 Project Name: UXB0483174 Stonefield Way
 Project No: 20030300
 Date Issued: 02/04/2020

Analysis Results

					20030300					
					001			002		
					25869483 - Stockpile			25869484 - Stockpile		
					LPL	LPL2	SOLID	LPL	LPL2	SOLID
					17/03/2020	17/03/2020	17/03/2020	17/03/2020	17/03/2020	17/03/2020
Analysis	Method Code	MDL	Units	Accred						
Conductivity at 25°C	WSLM2 & 3	100	µS/cm	U	466	243		387	213	
pH	WSLM2 & 3	1	pH units	U	10.5	10.5		10.5	10.3	
TDS as mg/l	WSLM2 & 3	70	mg/l	N	330	172		274	151	
ANC	ANC	0.04	mol/kg^	N			0.17			0.12
pH (2.5:1 extraction)	PHSOIL	1	pH units	UM			8.2			8.2
Chloride as Cl	KONENS	1	mg/l	U	16	2		10	3	
Phenol Index	SFAPI	0.05	mg/l	U	<0.05	<0.05		<0.05	<0.05	
Sulphide as S	SFAPI	0.5	mg/kg^	N			<0.6			<0.6
Total Cyanide	SFAPI	0.5	mg/kg^	UM			<0.6			<0.6
Fluoride as F	ISEF	0.1	mg/l	U	0.2	<0.2		0.4	0.3	
Total Organic Carbon	WSLM59	0.02	% m/m^	U			0.27			0.22
LOI	LOI(%MM)	0.2	% m/m^	N			3.7			3.3
Leached Organic Carbon	WSLM13	0.2	mg/l	U	12	3.6		9.9	3.3	
Arsenic as As	ICPMSS	0.3	mg/kg^	UM			18.4			16.3
Cadmium as Cd	ICPMSS	0.2	mg/kg^	UM			<0.2			<0.2
Copper as Cu	ICPMSS	1.6	mg/kg^	UM			27.8			20.3





Client: SOCOTEC Materials Testing
 Project Name: UXB0483174 Stonefield Way
 Project No: 20030300
 Date Issued: 02/04/2020

Analysis Results

					Project ID		
					Sample ID		
					Customer ID		
					Sample Type		
					Sampling Date		
Analysis					20030300		
Method Code					003		
MDL					25869485 - Stockpile		
Units					LPL	LPL2	SOLID
Accred					17/03/2020	17/03/2020	17/03/2020
Conductivity at 25°C	WSLM2 & 3	100	µS/cm	U	409	200	
pH	WSLM2 & 3	1	pH units	U	10.3	10.3	
TDS as mg/l	WSLM2 & 3	70	mg/l	N	290	142	
ANC	ANC	0.04	mol/kg^	N			0.08
pH (2.5:1 extraction)	PHSOIL	1	pH units	UM			7.9
Chloride as Cl	KONENS	1	mg/l	U	14	2	
Phenol Index	SFAPI	0.05	mg/l	U	<0.05	<0.05	
Sulphide as S	SFAPI	0.5	mg/kg^	N			<0.6
Total Cyanide	SFAPI	0.5	mg/kg^	UM			<0.6
Fluoride as F	ISEF	0.1	mg/l	U	0.3	0.2	
Total Organic Carbon	WSLM59	0.02	% m/m^	U			0.24
LOI	LOI(%MM)	0.2	% m/m^	N			3.6
Leached Organic Carbon	WSLM13	0.2	mg/l	U	9.3	3.4	
Arsenic as As	ICPMSS	0.3	mg/kg^	UM			13.5
Cadmium as Cd	ICPMSS	0.2	mg/kg^	UM			<0.2
Copper as Cu	ICPMSS	1.6	mg/kg^	UM			19.7





Client: SOCOTEC Materials Testing
 Project Name: UXB0483174 Stonefield Way
 Project No: 20030300
 Date Issued: 02/04/2020

					20030300					
					001			002		
					25869483 - Stockpile			25869484 - Stockpile		
					LPL	LPL2	SOLID	LPL	LPL2	SOLID
					17/03/2020	17/03/2020	17/03/2020	17/03/2020	17/03/2020	17/03/2020
Lead as Pb	ICPMSS	0.7	mg/kg^	UM			14.1			11.3
Mercury as Hg	ICPMSS	0.5	mg/kg^	UM			<0.5			<0.5
Nickel as Ni	ICPMSS	2	mg/kg^	UM			18.0			13.5
Selenium as Se	ICPMSS	0.5	mg/kg^	UM			<0.5			<0.5
Total Chromium as Cr	ICPMSS	1.2	mg/kg^	UM			40.4			35.0
Zinc as Zn	ICPMSS	16	mg/kg^	UM			63.0			52.5
Water Soluble Sulphate as SO4 by Mass	ICPWSS	20	mg/kg^	N			529			6970
Antimony as Sb	ICPMSW (Dissolved)	0.001	mg/l	U	0.003	0.002		0.003	0.009	
Arsenic as As	ICPMSW (Dissolved)	0.001	mg/l	U	0.006	0.006		0.007	0.006	
Cadmium as Cd	ICPMSW (Dissolved)	0.00002	mg/l	U	<0.00002	<0.00002		<0.00002	<0.00002	
Total Chromium as Cr	ICPMSW (Dissolved)	0.001	mg/l	U	0.281	0.043		0.028	0.008	
Copper as Cu	ICPMSW (Dissolved)	0.001	mg/l	U	0.020	0.005		0.016	0.005	
Lead as Pb	ICPMSW (Dissolved)	0.001	mg/l	U	<0.001	<0.001		<0.001	<0.001	
Mercury as Hg	ICPMSW (Dissolved)	0.00003	mg/l	U	<0.00003	<0.00003		<0.00003	<0.00003	
Molybdenum as Mo	ICPMSW (Dissolved)	0.001	mg/l	U	0.048	0.006		0.034	0.005	
Nickel as Ni	ICPMSW (Dissolved)	0.001	mg/l	U	0.004	<0.001		0.003	<0.001	
Selenium as Se	ICPMSW (Dissolved)	0.001	mg/l	U	0.003	0.001		0.006	0.002	
Zinc as Zn	ICPMSW (Dissolved)	0.002	mg/l	U	<0.002	<0.002		<0.002	<0.002	



					20030300		
					003		
					25869485 - Stockpile		
					LPL	LPL2	SOLID
					17/03/2020	17/03/2020	17/03/2020
Lead as Pb	ICPMSS	0.7	mg/kg^	UM			8.9
Mercury as Hg	ICPMSS	0.5	mg/kg^	UM			<0.5
Nickel as Ni	ICPMSS	2	mg/kg^	UM			11.0
Selenium as Se	ICPMSS	0.5	mg/kg^	UM			<0.5
Total Chromium as Cr	ICPMSS	1.2	mg/kg^	UM			22.7
Zinc as Zn	ICPMSS	16	mg/kg^	UM			68.9
Water Soluble Sulphate as SO4 by Mass	ICPWSS	20	mg/kg^	N			4650
Antimony as Sb	ICPMSW (Dissolved)	0.001	mg/l	U	0.003	0.002	
Arsenic as As	ICPMSW (Dissolved)	0.001	mg/l	U	0.006	0.005	
Cadmium as Cd	ICPMSW (Dissolved)	0.00002	mg/l	U	<0.00002	<0.00002	
Total Chromium as Cr	ICPMSW (Dissolved)	0.001	mg/l	U	0.017	0.003	
Copper as Cu	ICPMSW (Dissolved)	0.001	mg/l	U	0.013	0.004	
Lead as Pb	ICPMSW (Dissolved)	0.001	mg/l	U	<0.001	<0.001	
Mercury as Hg	ICPMSW (Dissolved)	0.00003	mg/l	U	<0.00003	<0.00003	
Molybdenum as Mo	ICPMSW (Dissolved)	0.001	mg/l	U	0.043	0.006	
Nickel as Ni	ICPMSW (Dissolved)	0.001	mg/l	U	0.002	<0.001	
Selenium as Se	ICPMSW (Dissolved)	0.001	mg/l	U	0.005	0.002	
Zinc as Zn	ICPMSW (Dissolved)	0.002	mg/l	U	<0.002	<0.002	



Client: SOCOTEC Materials Testing
 Project Name: UXB0483174 Stonefield Way
 Project No: 20030300
 Date Issued: 02/04/2020

					20030300					
					001			002		
					25869483 - Stockpile			25869484 - Stockpile		
					LPL	LPL2	SOLID	LPL	LPL2	SOLID
					17/03/2020	17/03/2020	17/03/2020	17/03/2020	17/03/2020	17/03/2020
Barium as Ba	ICPWATVAR (Dissolved)	0.01	mg/l	U	0.02	0.01		0.01	<0.01	
Total Sulphur as SO4	ICPWATVAR (Dissolved)	3	mg/l	U	119	36		78	23	
Benzene	BTEXHSA	10	µg/kg^	UM			<13			<12
Ethylbenzene	BTEXHSA	10	µg/kg^	UM			<13			<12
m/p-Xylene	BTEXHSA	20	µg/kg^	UM			<25			<25
o-Xylene	BTEXHSA	10	µg/kg^	UM			<13			<12
Toluene	BTEXHSA	10	µg/kg^	UM			<13			<12
>C6-C10	GROHSA	0.2	mg/kg^	UM			<0.254			<0.249
Acenaphthene	PAHMSUS	0.08	mg/kg^	UM			<0.10			<0.10
Acenaphthylene	PAHMSUS	0.08	mg/kg^	U			<0.10			<0.10
Anthracene	PAHMSUS	0.08	mg/kg^	U			<0.10			<0.10
Benzo[a]anthracene	PAHMSUS	0.08	mg/kg^	UM			<0.10			<0.10
Benzo[a]pyrene	PAHMSUS	0.08	mg/kg^	UM			<0.10			<0.10
Benzo[b]fluoranthene	PAHMSUS	0.08	mg/kg^	UM			<0.10*			<0.10*
Benzo[g,h,i]perylene	PAHMSUS	0.08	mg/kg^	UM			<0.10			<0.10
Benzo[k]fluoranthene	PAHMSUS	0.08	mg/kg^	UM			<0.10			<0.10
Chrysene	PAHMSUS	0.08	mg/kg^	UM			<0.10			<0.10
Coronene	PAHMSUS	0.08	mg/kg^	N			<0.10			<0.10



					20030300		
					003		
					25869485 - Stockpile		
					LPL	LPL2	SOLID
					17/03/2020	17/03/2020	17/03/2020
Barium as Ba	ICPWATVAR (Dissolved)	0.01	mg/l	U	0.02	<0.01	
Total Sulphur as SO4	ICPWATVAR (Dissolved)	3	mg/l	U	98	23	
Benzene	BTEXHSA	10	µg/kg^	UM			<13
Ethylbenzene	BTEXHSA	10	µg/kg^	UM			<13
m/p-Xylene	BTEXHSA	20	µg/kg^	UM			<25
o-Xylene	BTEXHSA	10	µg/kg^	UM			<13
Toluene	BTEXHSA	10	µg/kg^	UM			<13
>C6-C10	GROHSA	0.2	mg/kg^	UM			<0.252
Acenaphthene	PAHMSUS	0.08	mg/kg^	UM			<0.10
Acenaphthylene	PAHMSUS	0.08	mg/kg^	U			<0.10
Anthracene	PAHMSUS	0.08	mg/kg^	U			<0.10
Benzo[a]anthracene	PAHMSUS	0.08	mg/kg^	UM			<0.10
Benzo[a]pyrene	PAHMSUS	0.08	mg/kg^	UM			<0.10
Benzo[b]fluoranthene	PAHMSUS	0.08	mg/kg^	UM			<0.10
Benzo[g,h,i]perylene	PAHMSUS	0.08	mg/kg^	UM			<0.10
Benzo[k]fluoranthene	PAHMSUS	0.08	mg/kg^	UM			<0.10
Chrysene	PAHMSUS	0.08	mg/kg^	UM			<0.10
Coronene	PAHMSUS	0.08	mg/kg^	N			<0.10



Client: SOCOTEC Materials Testing
 Project Name: UXB0483174 Stonefield Way
 Project No: 20030300
 Date Issued: 02/04/2020

					20030300					
					001			002		
					25869483 - Stockpile			25869484 - Stockpile		
					LPL	LPL2	SOLID	LPL	LPL2	SOLID
					17/03/2020	17/03/2020	17/03/2020	17/03/2020	17/03/2020	17/03/2020
Dibenzo[a,h]anthracene	PAHMSUS	0.08	mg/kg^	UM			<0.10			<0.10
Fluoranthene	PAHMSUS	0.08	mg/kg^	UM			<0.10			<0.10
Fluorene	PAHMSUS	0.08	mg/kg^	UM			<0.10			<0.10
Indeno[1,2,3-cd]pyrene	PAHMSUS	0.08	mg/kg^	UM			<0.10			<0.10
Naphthalene	PAHMSUS	0.08	mg/kg^	UM			<0.10			<0.10
Phenanthrene	PAHMSUS	0.08	mg/kg^	UM			<0.10			<0.10
Pyrene	PAHMSUS	0.08	mg/kg^	UM			<0.10			<0.10
Total PAH 16	PAHMSUS	1.28	mg/kg^	U			<1.63			<1.59
PCB 101	PCBECD	5	µg/kg^	UM			<6.35			<6.22
PCB 118	PCBECD	5	µg/kg^	UM			<6.35*			<6.22*
PCB 138	PCBECD	5	µg/kg^	UM			<6.35			<6.22
PCB 153	PCBECD	5	µg/kg^	UM			<6.35			<6.22
PCB 180	PCBECD	5	µg/kg^	UM			<6.35			<6.22
PCB 28	PCBECD	5	µg/kg^	UM			<6.35			<6.22
PCB 52	PCBECD	5	µg/kg^	UM			<6.35			<6.22
Total PCB 7 Congeners	PCBECD	35	µg/kg^	UM			<44.5			<43.5
Dimethylphenols	PHEHPLCUV	0.1	mg/kg^	U			<0.38			<0.37
Methylphenols	PHEHPLCUV	0.1	mg/kg^	U			<0.38			<0.37



					20030300		
					003		
					25869485 - Stockpile		
					LPL	LPL2	SOLID
					17/03/2020	17/03/2020	17/03/2020
Dibenzo[a,h]anthracene	PAHMSUS	0.08	mg/kg^	UM			<0.10
Fluoranthene	PAHMSUS	0.08	mg/kg^	UM			<0.10
Fluorene	PAHMSUS	0.08	mg/kg^	UM			<0.10
Indeno[1,2,3-cd]pyrene	PAHMSUS	0.08	mg/kg^	UM			<0.10
Naphthalene	PAHMSUS	0.08	mg/kg^	UM			<0.10
Phenanthrene	PAHMSUS	0.08	mg/kg^	UM			<0.10
Pyrene	PAHMSUS	0.08	mg/kg^	UM			<0.10
Total PAH 16	PAHMSUS	1.28	mg/kg^	U			<1.61
PCB 101	PCBECD	5	µg/kg^	UM			<6.30
PCB 118	PCBECD	5	µg/kg^	UM			<6.30
PCB 138	PCBECD	5	µg/kg^	UM			<6.30
PCB 153	PCBECD	5	µg/kg^	UM			<6.30
PCB 180	PCBECD	5	µg/kg^	UM			<6.30
PCB 28	PCBECD	5	µg/kg^	UM			<6.30
PCB 52	PCBECD	5	µg/kg^	UM			<6.30
Total PCB 7 Congeners	PCBECD	35	µg/kg^	UM			<44.1
Dimethylphenols	PHEHPLCUV	0.1	mg/kg^	U			<0.38
Methylphenols	PHEHPLCUV	0.1	mg/kg^	U			<0.38



Client: SOCOTEC Materials Testing
 Project Name: UXB0483174 Stonefield Way
 Project No: 20030300
 Date Issued: 02/04/2020

					20030300					
					001			002		
					25869483 - Stockpile			25869484 - Stockpile		
					LPL	LPL2	SOLID	LPL	LPL2	SOLID
					17/03/2020	17/03/2020	17/03/2020	17/03/2020	17/03/2020	17/03/2020
Phenol	PHEHPLCUV	0.1	mg/kg^	UM			<0.38			<0.37
Total Phenols	PHEHPLCUV	0.4	mg/kg^	U			<0.51			<0.50
Trimethylphenols	PHEHPLCUV	0.1	mg/kg^	U			<0.38			<0.37
>C10-C40	TPHFIDUS	10	mg/kg^	U			<12.7			<12.4
Total TPH	TPHFIDUS	10	mg/kg^	UM			<12.7			<12.4
Total Moisture at 105°C	TMSS	0.1	%	U			21.3			19.6
Total Moisture at 35°C	CLANDPREP	0.1	%	N			18.7			18.7
Colour of Material	CLANDPREP		-	N			Brown			Brown
Major Constituents	CLANDPREP		-	N			CLAY			CLAY
Minor Constituents	CLANDPREP		-	N			Silt			Silt
Miscellaneous Constituents	CLANDPREP		-	N			na			na
Equivalent Weight of Dry Material (kg)	Leachate Preparation CEN 2 Stg		kg	N			0.225			0.225
Fraction above 4 mm (%)	Leachate Preparation CEN 2 Stg		%	N			0			0
Fraction of non-crushable material (%)	Leachate Preparation CEN 2 Stg		%	N			0			0
Volume of 2:1 Leach Analysed (litr)	Leachate Preparation CEN 2 Stg		l	N			0.300			0.300
Weight of Sample Leached (kg)	Leachate Preparation CEN 2 Stg		kg	N			0.261			0.276
Weight of Water for 2:1 Stage (kg)	Leachate Preparation CEN 2 Stg		kg	N			0.414			0.399
Weight of Water for 8:1 Stage (kg)	Leachate Preparation CEN 2 Stg		kg	N			1.65			1.65





Client: SOCOTEC Materials Testing
 Project Name: UXB0483174 Stonefield Way
 Project No: 20030300
 Date Issued: 02/04/2020

					20030300		
					003		
					25869485 - Stockpile		
					LPL	LPL2	SOLID
					17/03/2020	17/03/2020	17/03/2020
Phenol	PHEHPLCUV	0.1	mg/kg^	UM			<0.38
Total Phenols	PHEHPLCUV	0.4	mg/kg^	U			<0.50
Trimethylphenols	PHEHPLCUV	0.1	mg/kg^	U			<0.38
>C10-C40	TPHFIDUS	10	mg/kg^	U			<12.6
Total TPH	TPHFIDUS	10	mg/kg^	UM			<12.6
Total Moisture at 105°C	TMSS	0.1	%	U			20.6
Total Moisture at 35°C	CLANDPREP	0.1	%	N			18.7
Colour of Material	CLANDPREP		-	N			Brown
Major Constituents	CLANDPREP		-	N			CLAY
Minor Constituents	CLANDPREP		-	N			Silt
Miscellaneous Constituents	CLANDPREP		-	N			na
Equivalent Weight of Dry Material (kg)	Leachate Preparation CEN 2 Stg		kg	N			0.225
Fraction above 4 mm (%)	Leachate Preparation CEN 2 Stg		%	N			0
Fraction of non-crushable material (%)	Leachate Preparation CEN 2 Stg		%	N			0
Volume of 2:1 Leach Analysed (ltr)	Leachate Preparation CEN 2 Stg		l	N			0.300
Weight of Sample Leached (kg)	Leachate Preparation CEN 2 Stg		kg	N			0.263
Weight of Water for 2:1 Stage (kg)	Leachate Preparation CEN 2 Stg		kg	N			0.412
Weight of Water for 8:1 Stage (kg)	Leachate Preparation CEN 2 Stg		kg	N			1.65





Client: SOCOTEC Materials Testing
 Project Name: UXB0483174 Stonefield Way
 Project No: 20030300
 Date Issued: 02/04/2020

					20030300					
					001			002		
					25869483 - Stockpile			25869484 - Stockpile		
					LPL	LPL2	SOLID	LPL	LPL2	SOLID
					17/03/2020	17/03/2020	17/03/2020	17/03/2020	17/03/2020	17/03/2020
WAC Report	WAC		-	N			See Attached			See Attached
Asbestos Identification	SUB002		-	N			NAIIS			NAIIS





Client: SOCOTEC Materials Testing
 Project Name: UXB0483174 Stonefield Way
 Project No: 20030300
 Date Issued: 02/04/2020

					20030300		
					003		
					25869485 - Stockpile		
					LPL	LPL2	SOLID
					17/03/2020	17/03/2020	17/03/2020
WAC Report	WAC		-	N			See Attached
Asbestos Identification	SUB002		-	N			NAIIS



ASBESTOS ANALYSIS RESULTS								Detection limit of Method SCI-ASB-020 is 0.001% Sampling has been carried out by a third party			
SOCOTEC Asbestos Limited Certificate of Analysis for Asbestos in Soils, Sediments and Aggregates											
Client:			SOCOTEC Environmental Chemistry					Page 1 of 1			
Address:			Etwall House, Bretby Business Park, Ashby Road, Burton upon Trent					Report No:		ANO-0503-22655	
For the attention of:			SOCOTEC Uxbridge					Report Date:		27/03/2020	
Site Address:			Stonefield Way					Project Number:		20030300	
Sample Number	Sample Date	Sample Location & Matrix	Test Date	Total Sample Dry Weight (g)	Weight of <10mm Fraction (g)	Asbestos(g) in >10mm	Asbestos(g) in < 10mm	% Asbestos by weight of Total Dried Sample	Moisture Content	Asbestos Fibre Types Identified	
001	21/03/20		27/03/2020	1078.7	1078.7		0.0000			NADIS	
002	21/03/20		27/03/2020	974.2	972.2	0.0000	0.0000			NADIS	
003	21/03/20		27/03/2020	1037.4	1037.4		0.0000			NADIS	
Keys		NAACR = Not Analysed at Clients Request			NAIIS = No Asbestos Identified in Sample (Identification Only)				Name:	Tom Pratt	Authorised Signatory:
		* visible to naked eye			NADIS = No Asbestos Detected in Sample (ID & Quant Only)				Position:	Lab Coordinator	

The sample analysis for the above results was carried out using the procedures detailed in SOCOTEC Asbestos Limited in house method (SCI-ASB-020) based on EA document Quantification of asbestos in soil and associated materials - Draft 2017. Fibre identification was carried out using SOCOTEC Asbestos Limited in house method of transmitted/polarised light microscopy and centre stop dispersion staining (SCI-ASB-007), based on HSE's HSG 248. The analysis of the < 10mm fraction for asbestos content only includes ACMs and fibres and does not discriminate non-asbestos fibres. All fibres are assumed, unless specified, to be amphiboles. All tests were carried out at a SOCOTEC Asbestos Ltd laboratory, UKAS Testing Number 1089. Recommended sample weight is 1kg-2kg, samples less than 1kg are classified as deviating samples.

Additional Report Notes

Method Code	Sample ID	The following information should be taken into consideration when using the data contained within this report
PCBECD	20030300-001, 20030300-002	The Secondary process control data associated with this Test has not wholly met the requirements of the Laboratory Quality Management System QMS with one or more target analytes falling outside acceptable limits. However the remaining data gives the Laboratory confidence that the test has performed satisfactorily (including the Primary Process Control) and that the validity of the data may not have been significantly affected. However in line with our QMS policy we have removed accreditation , where applicable, from the affected analytes (PCB 118) . These circumstances should be taken into consideration when utilising the data.
PAHMSUS	20030300-001, 20030300-002	The Secondary process control data associated with this Test has not wholly met the requirements of the Laboratory Quality Management System QMS with one or more target analytes falling outside acceptable limits. However the remaining data gives the Laboratory confidence that the test has performed satisfactorily (including the Primary Process Control) and that the validity of the data may not have been significantly affected. However in line with our QMS policy we have removed accreditation , where applicable, from the affected analytes (Benzo[b]fluoranthene) . These circumstances should be taken into consideration when utilising the data.

WASTE ACCEPTANCE CRITERIA TESTING

BSEN 12457/3

Client	SOC_UXB_MSO_UXB				Leaching Data	
					Weight of sample (kg)	0.261
Site	UXB0483174 Stonefield Way				Moisture content @ 105°C (% of Wet Weight)	21.3
					Equivalent Weight based on drying at 105°C (kg)	0.225
					Volume of water required to carry out 2:1 stage (litres)	0.414
					Fraction of sample above 4 mm %	0.000
Sample Description		Report No	Sample No	Issue Date	Fraction of non-crushable material %	0.000
25869483 - Stockpile		20030300	20030300-001	02-Apr-20	Volume to undertake analysis (2:1 Stage) (litres)	0.300
					Weight of Deionised water to carry out 8:1 stage (kg)	1.650

Note: The >4mm fraction is crushed using a disc mill

Accreditation	Method Code	Solid Waste Analysis (Dry Basis)	Concentration in Solid (Dry Weight Basis)	Landfill Waste Acceptance Criteria Limit Values		
				Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
U	WSLM59	Total Organic Carbon (% M/M)	0.27	3	5	6
N	LOI450	Loss on Ignition (%)	3.7			10
UM	BTEXHSA	Sum of BTEX (mg/kg)	<0.077	6		
UM	PCBUSECD	Sum of 7 Congener PCB's (mg/kg)	<0.0445	1		
U	TPHFIDUS	Mineral Oil (mg/kg)	<12.7	500		
N	PAHMSUS	PAH Sum of 17 (mg/kg)	<1.73	100		
UM	PHSOIL	pH (pH units)	8.2		>6	
N	ANC	Acid Neutralisation Capacity (mol/kg) @pH 7	0.17		To be evaluated	To be evaluated

U

Accreditation	Method Code	Leachate Analysis	2:1 Leachate	8:1 Leachate	Calculated amount leached @ 2:1	Calculated cumulative amount leached @ 10:1	Landfill Waste Acceptance Criteria Limit Values for BSEN 12457/3 @ L/S 10 litre kg-1 mg/kg (dry weight)		
			mg/l except °°		mg/kg (dry weight)				
U	WSLM3	pH (pH units) °°	10.5	10.5	Calculated data not UKAS Accredited				
U	WSLM2	Conductivity (µs/cm) °°	466	243					
U	ICPMSW	Arsenic	0.006	0.006	0.012	0.06	0.5	2	25
U	ICPWATVAR	Barium	0.02	0.01	0.04	0.1	20	100	300
U	ICPMSW	Cadmium	<0.00002	<0.00002	<0.00004	<0.0002	0.04	1	5
U	ICPMSW	Chromium	0.281	0.043	0.562	0.75	0.5	10	70
U	ICPMSW	Copper	0.02	0.005	0.04	0.07	2	50	100
U	ICPMSW	Mercury	<0.00003	<0.00003	<0.00006	<0.0003	0.01	0.2	2
U	ICPMSW	Molybdenum	0.048	0.006	0.096	0.12	0.5	10	30
U	ICPMSW	Nickel	0.004	<0.001	0.008	<0.01	0.4	10	40
U	ICPMSW	Lead	<0.001	<0.001	<0.002	<0.01	0.5	10	50
U	ICPMSW	Antimony	0.003	0.002	0.006	0.02	0.06	0.7	5
U	ICPMSW	Selenium	0.003	0.001	0.006	0.01	0.1	0.5	7
U	ICPMSW	Zinc	<0.002	<0.002	<0.004	<0.02	4	50	200
U	KONENS	Chloride	16	2	32	39	800	15000	25000
U	ISEF	Fluoride	0.2	<0.2	0.4	<2	10	150	500
U	ICPWATVAR	Sulphate as SO4	119	36	238	471	1000	20000	50000
N	WSLM27	Total Dissolved Solids	330	172	660	1931	4000	60000	100000
U	SFAPI	Phenol Index	<0.05	<0.05	<0.1	<0.5	1		
U	WSLM13	Dissolved Organic Carbon	12	3.6	24	47	500	800	1000

Template Ver. 1

Landfill Waste Acceptance Criteria limit values correct as of 11th March 2009.

Tests where the accreditation is set to U are UKAS accredited, those where the accreditation is set to N are not UKAS accredited

WASTE ACCEPTANCE CRITERIA TESTING

BSEN 12457/3

Client	SOC_UXB_MSO_UXB				Leaching Data	
					Weight of sample (kg)	0.276
Site	UXB0483174 Stonefield Way				Moisture content @ 105°C (% of Wet Weight)	19.6
					Equivalent Weight based on drying at 105°C (kg)	0.225
					Volume of water required to carry out 2:1 stage (litres)	0.399
					Fraction of sample above 4 mm %	0.000
Sample Description		Report No	Sample No	Issue Date	Fraction of non-crushable material %	0.000
25869484 - Stockpile		20030300	20030300-002	02-Apr-20	Volume to undertake analysis (2:1 Stage) (litres)	0.300
					Weight of Deionised water to carry out 8:1 stage (kg)	1.650

Note: The >4mm fraction is crushed using a disc mill

Accreditation	Method Code	Solid Waste Analysis (Dry Basis)	Concentration in Solid (Dry Weight Basis)	Landfill Waste Acceptance Criteria Limit Values		
				Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
U	WSLM59	Total Organic Carbon (% M/M)	0.22	3	5	6
N	LOI450	Loss on Ignition (%)	3.3			10
UM	BTEXHSA	Sum of BTEX (mg/kg)	<0.073	6		
UM	PCBUSECD	Sum of 7 Congener PCB's (mg/kg)	<0.0435	1		
U	TPHFIDUS	Mineral Oil (mg/kg)	<12.4	500		
N	PAHMSUS	PAH Sum of 17 (mg/kg)	<1.69	100		
UM	PHSOIL	pH (pH units)	8.2		>6	
N	ANC	Acid Neutralisation Capacity (mol/kg) @pH 7	0.12		To be evaluated	To be evaluated

U

Accreditation	Method Code	Leachate Analysis	2:1 Leachate	8:1 Leachate	Calculated amount leached @ 2:1	Calculated cumulative amount leached @ 10:1	Landfill Waste Acceptance Criteria Limit Values for BSEN 12457/3 @ L/S 10 litre kg-1 mg/kg (dry weight)		
			mg/l except °°		mg/kg (dry weight)				
U	WSLM3	pH (pH units) °°	10.5	10.3	Calculated data not UKAS Accredited				
U	WSLM2	Conductivity (µs/cm) °°	387	213					
U	ICPMSW	Arsenic	0.007	0.006	0.014	0.06	0.5	2	25
U	ICPWATVAR	Barium	0.01	<0.01	0.02	<0.1	20	100	300
U	ICPMSW	Cadmium	<0.00002	<0.00002	<0.00004	<0.0002	0.04	1	5
U	ICPMSW	Chromium	0.028	0.008	0.056	0.11	0.5	10	70
U	ICPMSW	Copper	0.016	0.005	0.032	0.06	2	50	100
U	ICPMSW	Mercury	<0.00003	<0.00003	<0.00006	<0.0003	0.01	0.2	2
U	ICPMSW	Molybdenum	0.034	0.005	0.068	0.09	0.5	10	30
U	ICPMSW	Nickel	0.003	<0.001	0.006	<0.01	0.4	10	40
U	ICPMSW	Lead	<0.001	<0.001	<0.002	<0.01	0.5	10	50
U	ICPMSW	Antimony	0.003	0.009	0.006	0.08	0.06	0.7	5
U	ICPMSW	Selenium	0.006	0.002	0.012	0.03	0.1	0.5	7
U	ICPMSW	Zinc	<0.002	<0.002	<0.004	<0.02	4	50	200
U	KONENS	Chloride	10	3	20	39	800	15000	25000
U	ISEF	Fluoride	0.4	0.3	0.8	3	10	150	500
U	ICPWATVAR	Sulphate as SO4	78	23	156	303	1000	20000	50000
N	WSLM27	Total Dissolved Solids	274	151	548	1674	4000	60000	100000
U	SFAPI	Phenol Index	<0.05	<0.05	<0.1	<0.5	1		
U	WSLM13	Dissolved Organic Carbon	9.9	3.3	19.8	42	500	800	1000

Template Ver. 1

Landfill Waste Acceptance Criteria limit values correct as of 11th March 2009.

Tests where the accreditation is set to U are UKAS accredited, those where the accreditation is set to N are not UKAS accredited

WASTE ACCEPTANCE CRITERIA TESTING

BSEN 12457/3

Client	SOC_UXB_MSO_UXB				Leaching Data	
					Weight of sample (kg)	0.263
Site	UXB0483174 Stonefield Way				Moisture content @ 105°C (% of Wet Weight)	20.6
					Equivalent Weight based on drying at 105°C (kg)	0.225
					Volume of water required to carry out 2:1 stage (litres)	0.412
					Fraction of sample above 4 mm %	0.000
Sample Description		Report No	Sample No	Issue Date	Fraction of non-crushable material %	0.000
25869485 - Stockpile		20030300	20030300-003	02-Apr-20	Volume to undertake analysis (2:1 Stage) (litres)	0.300
					Weight of Deionised water to carry out 8:1 stage (kg)	1.650

Note: The >4mm fraction is crushed using a disc mill

Accreditation	Method Code	Solid Waste Analysis (Dry Basis)	Concentration in Solid (Dry Weight Basis)	Landfill Waste Acceptance Criteria Limit Values		
				Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
U	WSLM59	Total Organic Carbon (% M/M)	0.24	3	5	6
N	LOI450	Loss on Ignition (%)	3.6			10
UM	BTEXHSA	Sum of BTEX (mg/kg)	<0.077	6		
UM	PCBUSECD	Sum of 7 Congener PCB's (mg/kg)	<0.0441	1		
U	TPHFIDUS	Mineral Oil (mg/kg)	<12.6	500		
N	PAHMSUS	PAH Sum of 17 (mg/kg)	<1.71	100		
UM	PHSOIL	pH (pH units)	7.9		>6	
N	ANC	Acid Neutralisation Capacity (mol/kg) @pH 7	0.08		To be evaluated	To be evaluated

U

Accreditation	Method Code	Leachate Analysis	2:1 Leachate	8:1 Leachate	Calculated amount leached @ 2:1	Calculated cumulative amount leached @ 10:1	Landfill Waste Acceptance Criteria Limit Values for BSEN 12457/3 @ L/S 10 litre kg-1 mg/kg (dry weight)		
			mg/l except °°		mg/kg (dry weight)				
U	WSLM3	pH (pH units) °°	10.3	10.3	Calculated data not UKAS Accredited				
U	WSLM2	Conductivity (µs/cm) °°	409	200					
U	ICPMSW	Arsenic	0.006	0.005	0.012	0.05	0.5	2	25
U	ICPWATVAR	Barium	0.02	<0.01	0.04	<0.1	20	100	300
U	ICPMSW	Cadmium	<0.00002	<0.00002	<0.00004	<0.0002	0.04	1	5
U	ICPMSW	Chromium	0.017	0.003	0.034	0.05	0.5	10	70
U	ICPMSW	Copper	0.013	0.004	0.026	0.05	2	50	100
U	ICPMSW	Mercury	<0.00003	<0.00003	<0.00006	<0.0003	0.01	0.2	2
U	ICPMSW	Molybdenum	0.043	0.006	0.086	0.11	0.5	10	30
U	ICPMSW	Nickel	0.002	<0.001	0.004	<0.01	0.4	10	40
U	ICPMSW	Lead	<0.001	<0.001	<0.002	<0.01	0.5	10	50
U	ICPMSW	Antimony	0.003	0.002	0.006	0.02	0.06	0.7	5
U	ICPMSW	Selenium	0.005	0.002	0.01	0.02	0.1	0.5	7
U	ICPMSW	Zinc	<0.002	<0.002	<0.004	<0.02	4	50	200
U	KONENS	Chloride	14	2	28	36	800	15000	25000
U	ISEF	Fluoride	0.3	0.2	0.6	2	10	150	500
U	ICPWATVAR	Sulphate as SO4	98	23	196	330	1000	20000	50000
N	WSLM27	Total Dissolved Solids	290	142	580	1617	4000	60000	100000
U	SFAPI	Phenol Index	<0.05	<0.05	<0.1	<0.5	1		
U	WSLM13	Dissolved Organic Carbon	9.3	3.4	18.6	42	500	800	1000

Template Ver. 1

Landfill Waste Acceptance Criteria limit values correct as of 11th March 2009.

Tests where the accreditation is set to U are UKAS accredited, those where the accreditation is set to N are not UKAS accredited



Client: SOCOTEC Materials Testing

Project Name: UXB0483174 Stonefield Way

Project No: 20030300

Date Issued: 02/04/2020

Deviating Sample Report

Sample Reference	Text ID	Reported Name	Incorrect Container	Incorrect Label	Headspace	Incorrect/No Preservative	No Sampling Date	Holding Time	Handling Time

Analysis Basis

<u>Analysis</u>	<u>Analysis Type</u>	<u>Analysis Basis</u>
ANC	INORGANIC	Air Dried & Ground
BTEXHSA	ORGANIC	As Received
CLANDPREP	PHYS	As Received
GROHSA	ORGANIC	As Received
ICPMSS	METALS	Air Dried & Ground
ICPMSSW (Dissolved)	METALS	Filtered
ICPWSS	METALS	Air Dried & Ground
ISEF	INORGANIC	Filtered
KONENS	INORGANIC	Filtered
Leachate Preparation CEN 2 Stg	PHYS	As Received
Leachate Preparation CEN 2 Stg	PHYS	As Received
LOI(%MM)	INORGANIC	Air Dried & Ground
PAHMSUS	ORGANIC	As Received
PCBECD	ORGANIC	As Received
PHEHPLCUV	ORGANIC	As Received
PHSOIL	INORGANIC	As Received
SFAPI	INORGANIC	As Received
SFAPI	INORGANIC	Filtered
SUB002	SUBCON	
TMSS	PHYS	As Received
TPHFIDUS	ORGANIC	As Received
WAC	GENERAL	
WSLM13	INORGANIC	Filtered
WSLM2 & 3	INORGANIC	Filtered
WSLM59	INORGANIC	Air Dried & Ground



Client: SOCOTEC Materials Testing

Project Name: UXB0483174 Stonefield Way

Project No: 20030300

Date Issued: 02/04/2020

Additional Information

This report refers to samples as received, and SOCOTEC Uk Ltd takes no responsibility for accuracy or competence of sampling by others.

Results within this report relate only to the samples tested.

In the accreditation column of analysis report the codes are as follows:

- U = UKAS accredited analysis
- M = MCERT accredited analysis
- N = Unaccredited analysis

Any units marked with ^ signify results are reported on a dry weight basis of 105° c

All Air Dried and Ground Samples (ADG) are oven dried at less than 35° c.

This report shall not be reproduced except in full and with approval from the laboratory.

Opinions and interpretations given are outside the scope of our UKAS accreditation.

Any samples marked with * are not covered by our scope of UKAS accreditation, if applicable further report notes have been added.

Any solid samples where the Major Constituents are not one of the following (Sand, Silt, Clay, Made Ground) are not one of our accredited matrix types.

Any samples marked with ‡ have had MCERTS accreditation removed for this result

Any samples marked with a tick in the deviant table is deviant for the specific reason.

Any samples reported as IS, NA, ND mean the following:

- IS = Insufficient Sample to complete analysis
- NA = Sample is not amenable for the required analysis
- ND = Results cannot be determined

End of Certificate of Analysis