



Document Reference: 777128-MLM-ZZ-XX-CO-J-0003
MLM Reference: MH/777128/JH
Revision: C01
Status: S2

Private & Confidential

Mr M Daley
Kensington Aldridge Academy
1 Silchester Street
London
W10 6EX

7 March 2019

Dear Matt

Kensington Aldridge Academy – Tree Planter Soil Sampling and Testing

MLM Consulting Engineers Ltd (MLM) has completed further soil sampling and testing at the Kensington Aldridge Academy site.

The further soil sampling was conducted following a previous survey, which detected concentrations of three polycyclic aromatic hydrocarbon compounds above a standard suitable for use in a domestic garden. That sample was labelled "IP06" and the MLM letter 777128-MLM-ZZ-XX-CO-J-0001 dated 29 November 2018 refers.

Sampling

Following the removal of soil from the affected tree planter, MLM revisited the site on 14 February 2019 to take a sample of the new topsoil from the location of IP06.

Laboratory Chemical Testing

The sample was tested for a standard range of contaminants, including PAHs, by Chemtest which is UKAS-accredited laboratory. The certificates of analysis are presented in Appendix A.

Results

The replacement topsoil in the previously affected tree planter contains contaminant concentrations below screening levels for a domestic garden used for homegrown produce.



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Name: Mr M Daley
Company Name: Kensington Aldridge Academy

Discussion

Based on the results, the replacement soil in the tree planter is considered suitable for use on the school site and presents no unacceptable risk to human health.

Yours sincerely

Mark Henderson
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Encs: Appendix A – Laboratory Test Certificates

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Appendix A – Laboratory Test Certificates



2183

Final Report

Report No.: 19-05953-1

Initial Date of Issue: 26-Feb-2019

Client: MLM

Client Address: Building 7200
IQ Cambridge
Cambridge
Cambridgeshire
CB25 9TL

Contact(s): Mark Henderson

Project: 777128

Quotation No.: **Date Received:** 18-Feb-2019


Order No.: 777128 **Date Instructed:** 18-Feb-2019

No. of Samples: 1

Turnaround (Wkdays): 5 **Results Due:** 22-Feb-2019

Date Approved: 25-Feb-2019

Approved By:



Details: Robert Monk, Technical Manager

Project: 777128

Client: MLM	Chemtest Job No.:				19-05953
Quotation No.:	Chemtest Sample ID.:				777127
	Client Sample ID.:				777128IP13E S1
	Sample Location:				IP13
	Sample Type:				SOIL
	Top Depth (m):				0.15
	Date Sampled:				14-Feb-2019
	Asbestos Lab:				COVENTRY
Determinand	Accred.	SOP	Units	LOD	
ACM Type	U	2192		N/A	-
Asbestos Identification	U	2192	%	0.001	No Asbestos Detected
ACM Detection Stage	U	2192		N/A	-
Moisture	N	2030	%	0.020	18
Cyanide (Free)	U	2300	mg/kg	0.50	< 0.50
Cyanide (Total)	U	2300	mg/kg	0.50	< 0.50
Arsenic	U	2450	mg/kg	1.0	12
Cadmium	U	2450	mg/kg	0.10	0.16
Chromium	U	2450	mg/kg	1.0	16
Copper	U	2450	mg/kg	0.50	18
Mercury	U	2450	mg/kg	0.10	0.11
Nickel	U	2450	mg/kg	0.50	13
Lead	U	2450	mg/kg	0.50	47
Selenium	U	2450	mg/kg	0.20	< 0.20
Zinc	U	2450	mg/kg	0.50	56
Naphthalene	U	2700	mg/kg	0.10	< 0.10
Acenaphthylene	U	2700	mg/kg	0.10	< 0.10
Acenaphthene	U	2700	mg/kg	0.10	< 0.10
Fluorene	U	2700	mg/kg	0.10	< 0.10
Phenanthrene	U	2700	mg/kg	0.10	< 0.10
Anthracene	U	2700	mg/kg	0.10	< 0.10
Fluoranthene	U	2700	mg/kg	0.10	< 0.10
Pyrene	U	2700	mg/kg	0.10	< 0.10
Benzo[a]anthracene	U	2700	mg/kg	0.10	< 0.10
Chrysene	U	2700	mg/kg	0.10	< 0.10
Benzo[b]fluoranthene	U	2700	mg/kg	0.10	< 0.10
Benzo[k]fluoranthene	U	2700	mg/kg	0.10	< 0.10
Benzo[a]pyrene	U	2700	mg/kg	0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	2700	mg/kg	0.10	< 0.10
Dibenz(a,h)Anthracene	U	2700	mg/kg	0.10	< 0.10
Benzo[g,h,i]perylene	U	2700	mg/kg	0.10	< 0.10
Total Of 16 PAH's	U	2700	mg/kg	2.0	< 2.0

SOP	Title	Parameters included	Method summary
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.
2450	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)

Report Information

Key

- U UKAS accredited
- M MCERTS and UKAS accredited
- N Unaccredited
- S This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
- SN This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
- T This analysis has been subcontracted to an unaccredited laboratory
- I/S Insufficient Sample
- U/S Unsuitable Sample
- N/E not evaluated
- < "less than"
- > "greater than"

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 45 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com