



2183

Final Report

Report No.: 23-26457-1

Initial Date of Issue: 14-Aug-2023

Re-Issue Details:

Client JM Knapp & Sons Ltd

Client Address: 63 Sketchley Road
Burbage
Leicestershire
LE10 2DU

Contact(s): Tom Knapp

Project 137-149 Lutterworth Road, Burbage

Quotation No.: Q23-31410

Date Received: 07-Aug-2023

Order No.:

Date Instructed: 07-Aug-2023

No. of Samples: 1

Turnaround (Wkdays): 5

Results Due: 11-Aug-2023

Date Approved: 14-Aug-2023

Approved By:



Details: Stuart Henderson, Technical
Manager

Results - Soil

Project: 137-149 Lutterworth Road, Burbage

Client: JM Knapp & Sons Ltd	Chemtest Job No.:				23-26457
Quotation No.: Q23-31410	Chemtest Sample ID.:				1684498
	Sample Location:				Garden plot 5
	Sample Type:				SOIL
	Top Depth (m):				0.1
	Bottom Depth (m):				0.4
	Time Sampled:				9:00
Determinand	Accred.	SOP	Units	LOD	
Moisture	N	2030	%	0.020	11
Arsenic	U	2455	mg/kg	0.5	6.9
Boron	N	2455	mg/kg	50.00	< 50
Cadmium	U	2455	mg/kg	0.10	0.11
Chromium	U	2455	mg/kg	0.5	13
Copper	U	2455	mg/kg	0.50	10
Mercury	U	2455	mg/kg	0.05	< 0.05
Nickel	U	2455	mg/kg	0.50	10
Lead	U	2455	mg/kg	0.50	20
Selenium	U	2455	mg/kg	0.25	0.42
Vanadium	U	2455	mg/kg	0.5	17
Zinc	U	2455	mg/kg	0.50	93
Chromium (Trivalent)	N	2490	mg/kg	1.0	13
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50
Aliphatic VPH >C5-C6	U	2780	mg/kg	0.05	[A] < 0.05
Aliphatic VPH >C6-C7	U	2780	mg/kg	0.05	[A] < 0.05
Aliphatic VPH >C7-C8	U	2780	mg/kg	0.05	[A] < 0.05
Aliphatic VPH >C8-C10	U	2780	mg/kg	0.05	[A] 0.12
Total Aliphatic VPH >C5-C10	U	2780	mg/kg	0.25	[A] < 0.25
Aliphatic EPH >C10-C12	U	2690	mg/kg	2.00	[A] < 2.0
Aliphatic EPH >C12-C16	U	2690	mg/kg	1.00	[A] < 1.0
Aliphatic EPH >C16-C21	U	2690	mg/kg	2.00	[A] < 2.0
Aliphatic EPH >C21-C35	U	2690	mg/kg	3.00	[A] 6.7
Aliphatic EPH >C35-C40	N	2690	mg/kg	10.00	[A] < 10
Total Aliphatic EPH >C10-C35	U	2690	mg/kg	5.00	[A] 6.7
Total Aliphatic EPH >C10-C40	N	2690	mg/kg	10.00	[A] < 10
Aromatic VPH >C5-C7	U	2780	mg/kg	0.05	[A] < 0.05
Aromatic VPH >C7-C8	U	2780	mg/kg	0.05	[A] < 0.05
Aromatic VPH >C8-C10	U	2780	mg/kg	0.05	[A] < 0.05
Total Aromatic VPH >C5-C10	U	2780	mg/kg	0.25	[A] < 0.25
Aromatic EPH >C10-C12	U	2690	mg/kg	1.00	[A] < 1.0
Aromatic EPH >C12-C16	U	2690	mg/kg	1.00	[A] < 1.0
Aromatic EPH >C16-C21	U	2690	mg/kg	2.00	[A] 2.1
Aromatic EPH >C21-C35	U	2690	mg/kg	2.00	[A] 32
Aromatic EPH >C35-C40	N	2690	mg/kg	1.00	[A] 1.3
Total Aromatic EPH >C10-C35	U	2690	mg/kg	5.00	[A] 35
Total Aromatic EPH >C10-C40	N	2690	mg/kg	10.00	[A] 36
Total VPH >C5-C10	U	2780	mg/kg	0.50	[A] < 0.50
Total EPH >C10-C35	U	2690	mg/kg	10.00	[A] 41

Results - Soil

Project: 137-149 Lutterworth Road, Burbage

Client: JM Knapp & Sons Ltd	Chemtest Job No.:		23-26457		
Quotation No.: Q23-31410	Chemtest Sample ID.:		1684498		
	Sample Location:		Garden plot 5		
	Sample Type:		SOIL		
	Top Depth (m):		0.1		
	Bottom Depth (m):		0.4		
	Time Sampled:		9:00		
Determinand	Accred.	SOP	Units	LOD	
Total EPH >C10-C40	N	2690	mg/kg	10.00	[A] 43
Organic Matter	U	2625	%	0.40	[A] 3.1
Florisil Cleanup	N		-	N/A	Done
Naphthalene	U	2700	mg/kg	0.10	[A] < 0.10
Acenaphthylene	U	2700	mg/kg	0.10	[A] < 0.10
Acenaphthene	U	2700	mg/kg	0.10	[A] < 0.10
Fluorene	U	2700	mg/kg	0.10	[A] < 0.10
Phenanthrene	U	2700	mg/kg	0.10	[A] < 0.10
Anthracene	U	2700	mg/kg	0.10	[A] < 0.10
Fluoranthene	U	2700	mg/kg	0.10	[A] < 0.10
Pyrene	U	2700	mg/kg	0.10	[A] < 0.10
Benzo[a]anthracene	U	2700	mg/kg	0.10	[A] < 0.10
Chrysene	U	2700	mg/kg	0.10	[A] < 0.10
Benzo[b]fluoranthene	U	2700	mg/kg	0.10	[A] < 0.10
Benzo[k]fluoranthene	U	2700	mg/kg	0.10	[A] < 0.10
Benzo[a]pyrene	U	2700	mg/kg	0.10	[A] < 0.10
Indeno(1,2,3-c,d)Pyrene	U	2700	mg/kg	0.10	[A] < 0.10
Dibenz(a,h)Anthracene	U	2700	mg/kg	0.10	[A] < 0.10
Benzo[g,h,i]perylene	U	2700	mg/kg	0.10	[A] < 0.10
Total Of 16 PAH's	U	2700	mg/kg	2.0	[A] < 2.0
Benzene	U	2760	µg/kg	1.0	[A] < 1.0
Toluene	U	2760	µg/kg	1.0	[A] < 1.0
Ethylbenzene	U	2760	µg/kg	1.0	[A] < 1.0
m & p-Xylene	U	2760	µg/kg	1.0	[A] < 1.0
o-Xylene	U	2760	µg/kg	1.0	[A] < 1.0
Methyl Tert-Butyl Ether	U	2760	µg/kg	1.0	[A] < 1.0

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request. The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1684498			Garden plot 5		A	Amber Glass 60ml
1684498			Garden plot 5		A	Plastic Tub 500g

Test Methods

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.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2455	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.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection
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)
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8–C10 Aromatics: >C5–C7,>C7–C8,>C8–C10	Water extraction / Headspace GCxGC FID detection

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"
SOP	Standard operating procedure
LOD	Limit of detection

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 30 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