Ashfield
DISTRICT COUNCIL

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- email: Planning – planning.admin@ashfield.gov.uk

Results - Soil

Project: 46924 Newark Road

Client: Eastwood & Partners			**Chemtest Job No.:**		22-11356	22-11356	22-11356	22-11356	22-11356	22-11356	22-11356
Quotation No.:			**Chemtest Sample ID.:**		1398746	1398747	1398749	1398750	1398751	1398752	1398753
Order No.: 46924			Client Sample Ref.:		NAT	MG	MG	MG	MG	MG	MG
			Client Sample ID.:		TP37	TP03	TP05	TP06	TP09	TP15	TP21
			Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Top Depth (m):		1.40	1.70	2.10	0.60	1.40	3.20	0.60
			Bottom Depth (m):		1.40	1.70	2.10	0.60	1.40	3.20	0.60
			Date Sampled:		17-Mar-2022	16-Mar-2022	16-Mar-2022	16-Mar-2022	16-Mar-2022	16-Mar-2022	16-Mar-2022
			Asbestos Lab:			DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**Accred.**	**SOP**	**Units**	**LOD**							
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0		< 1.0			< 1.0	340	< 1.0
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0		< 1.0			< 1.0	430	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0		< 1.0			< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0		< 5.0			< 5.0	1000	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0		< 10			< 10	2300	< 10
Naphthalene	M	2800	mg/kg	0.10	< 0.10	2.8	3.2	2.0	1.2	1.7	1.7
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	0.23	0.12	0.22	< 0.10	0.26	< 0.10
Acenaphthene	M	2800	mg/kg	0.10	< 0.10	0.43	0.67	0.41	0.27	0.70	0.40
Fluorene	M	2800	mg/kg	0.10	< 0.10	0.34	0.51	0.38	0.17	0.89	0.28
Phenanthrene	M	2800	mg/kg	0.10	< 0.10	3.1	3.0	2.3	1.1	4.6	1.3
Anthracene	M	2800	mg/kg	0.10	< 0.10	0.75	0.59	0.66	0.33	1.2	0.31
Fluoranthene	M	2800	mg/kg	0.10	< 0.10	5.3	4.7	4.7	2.7	11	2.3
Pyrene	M	2800	mg/kg	0.10	< 0.10	4.9	3.8	4.3	2.5	8.7	2.1
Benzo[a]anthracene	M	2800	mg/kg	0.10	< 0.10	2.3	1.7	2.2	1.1	4.8	1.1
Chrysene	M	2800	mg/kg	0.10	< 0.10	2.8	1.6	2.4	1.5	4.9	1.2
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	< 0.10	3.4	2.1	2.7	1.9	5.8	1.3
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	< 0.10	1.1	0.16	1.2	0.66	2.3	0.39
Benzo[a]pyrene	M	2800	mg/kg	0.10	< 0.10	2.8	1.9	2.4	1.6	5.4	1.3
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	< 0.10	2.0	< 0.10	1.5	< 0.10	3.3	0.69
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	0.47	< 0.10	0.26	< 0.10	0.77	0.11
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	< 0.10	1.9	< 0.10	1.4	< 0.10	2.8	0.52
Total Of 16 PAH's	N	2800	mg/kg	2.0	< 2.0	35	24	29	15	59	15
Total Phenols	M	2920	mg/kg	0.10		< 0.10			< 0.10	< 0.10	< 0.10

Test Methods

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH	pH Meter
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
2175	Total Sulphur in Soils	Total Sulphur	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2185	Asbestos	Asbestos	Polarised light microscopy
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2430	Total Sulphate in soils	Total Sulphate	Acid digestion followed by determination of sulphate in extract by ICP-OES.
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.
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.
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	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-MS
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical 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

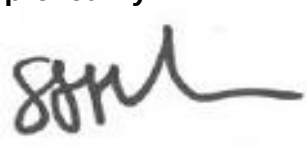
Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.:	22-12706-1
Initial Date of Issue:	11-Apr-2022
Client	Eastwood & Partners
Client Address:	St. Andrews House 23 Kingfield Road Sheffield South Yorkshire S11 9AS
Contact(s):	Alex Richmond Geo
Project	46924 Newark Road, Sutton-In-Ashfield

Quotation No.:		**Date Received:**	05-Apr-2022
Order No.:	46924	**Date Instructed:**	05-Apr-2022
No. of Samples:	26		
Turnaround (Wkdays):	5	**Results Due:**	11-Apr-2022
Date Approved:	11-Apr-2022		

Approved By:



Details: Stuart Henderson, Technical Manager

Results - Soil

Project: 46924 Newark Road, Sutton-In-Ashfield

Client: Eastwood & Partners					**Chemtest Job No.:**	22-12706	22-12706	22-12706	22-12706	22-12706	22-12706	22-12706	22-12706	22-12706
Quotation No.:					**Chemtest Sample ID.:**	1405069	1405070	1405071	1405072	1405073	1405074	1405075	1405076	1405077
Order No.: 46924					Client Sample Ref.:	TS	TS	TS	TS	TS	TS	TS	TS	TS
					Client Sample ID.:	TP07	TP08	TP11	TP13	TP17	TP18	TP24	TP20a	TP32
					Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
					Top Depth (m):	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.2
					Bottom Depth (m):	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.2
					Date Sampled:	24-Mar-2022	24-Mar-2022	28-Mar-2022	24-Mar-2022	24-Mar-2022	28-Mar-2022	28-Mar-2022	24-Mar-2022	28-Mar-2022
					Asbestos Lab:	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**										
ACM Type	U	2192		N/A		-	-	-	-	-	-	-	-	-
Asbestos Identification	U	2192		N/A		No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020		16	15	17	16	12	16	10	14	14
Soil Colour	N	2040		N/A		Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A		Stones	Stones and Roots	Stones and Roots	Stones	Stones	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots
Soil Texture	N	2040		N/A		Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand
pH	M	2010		4.0		8.2	8.2	8.2	8.1	8.1	7.7	8.0	8.7	7.5
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010										
Total Sulphur	M	2175	%	0.010										
Sulphate (Acid Soluble)	U	2430	%	0.010										
Arsenic	M	2450	mg/kg	1.0		6.2	2.7	4.9	4.2	3.9	4.5	3.9	5.7	3.3
Cadmium	M	2450	mg/kg	0.10		0.67	0.44	0.36	0.31	0.31	0.15	0.10	0.58	0.14
Chromium	M	2450	mg/kg	1.0		30	14	17	16	16	6.4	5.3	9.5	7.7
Copper	M	2450	mg/kg	0.50		32	13	15	18	27	11	8.7	12	10
Mercury	M	2450	mg/kg	0.10		0.19	< 0.10	< 0.10	0.10	< 0.10	0.13	< 0.10	< 0.10	< 0.10
Nickel	M	2450	mg/kg	0.50		21	10	13	14	13	5.2	3.6	10	6.5
Lead	M	2450	mg/kg	0.50		34	18	16	21	17	31	20	37	29
Selenium	M	2450	mg/kg	0.20		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	0.21	< 0.20	< 0.20	0.22
Zinc	M	2450	mg/kg	0.50		120	51	66	57	60	33	26	110	39
Chromium (Hexavalent)	N	2490	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total Organic Carbon	M	2625	%	0.20										
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0										
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0										
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0										
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0										
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0										
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0										
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0										
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0										
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0										
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0										
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0										
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0										
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0										
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0										

Results - Soil

Project: 46924 Newark Road, Sutton-In-Ashfield

Client: Eastwood & Partners					**Chemtest Job No.:**	22-12706	22-12706	22-12706	22-12706	22-12706	22-12706	22-12706	22-12706	22-12706
Quotation No.:					**Chemtest Sample ID.:**	1405069	1405070	1405071	1405072	1405073	1405074	1405075	1405076	1405077
Order No.: 46924					Client Sample Ref.:	TS	TS	TS	TS	TS	TS	TS	TS	TS
					Client Sample ID.:	TP07	TP08	TP11	TP13	TP17	TP18	TP24	TP20a	TP32
					Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
					Top Depth (m):	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.2
					Bottom Depth (m):	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.2
					Date Sampled:	24-Mar-2022	24-Mar-2022	28-Mar-2022	24-Mar-2022	24-Mar-2022	28-Mar-2022	28-Mar-2022	24-Mar-2022	28-Mar-2022
					Asbestos Lab:	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**										
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0										
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0										
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0										
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0										
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0										
Naphthalene	M	2800	mg/kg	0.10	2.6	3.7	2.6	2.3	2.7	< 0.10	< 0.10	< 0.10	< 0.10	
Acenaphthylene	N	2800	mg/kg	0.10	0.56	0.93	0.74	0.57	0.60	< 0.10	< 0.10	< 0.10	< 0.10	
Acenaphthene	M	2800	mg/kg	0.10	0.14	0.24	0.20	0.17	0.19	< 0.10	< 0.10	< 0.10	< 0.10	
Fluorene	M	2800	mg/kg	0.10	0.16	0.19	0.18	0.19	0.11	< 0.10	< 0.10	< 0.10	< 0.10	
Phenanthrene	M	2800	mg/kg	0.10	0.68	0.29	0.77	0.18	0.17	< 0.10	< 0.10	< 0.10	< 0.10	
Anthracene	M	2800	mg/kg	0.10	0.19	0.11	0.28	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Fluoranthene	M	2800	mg/kg	0.10	1.1	0.74	1.1	0.37	0.35	0.54	0.17	0.33	0.32	
Pyrene	M	2800	mg/kg	0.10	1.0	0.71	0.90	0.38	0.31	0.34	0.17	0.31	0.22	
Benzo[a]anthracene	M	2800	mg/kg	0.10	0.47	0.29	0.61	0.15	0.20	0.23	< 0.10	< 0.10	0.14	
Chrysene	M	2800	mg/kg	0.10	0.45	0.23	0.53	0.11	0.13	0.24	< 0.10	< 0.10	0.13	
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	0.45	0.56	0.54	0.22	0.22	< 0.10	< 0.10	< 0.10	< 0.10	
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	0.14	0.19	0.11	< 0.10	0.12	< 0.10	< 0.10	< 0.10	< 0.10	
Benzo[a]pyrene	M	2800	mg/kg	0.10	0.57	0.49	0.56	0.18	0.26	< 0.10	< 0.10	< 0.10	< 0.10	
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	0.44	0.50	0.26	0.25	0.29	< 0.10	< 0.10	< 0.10	< 0.10	
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	0.17	0.10	0.19	0.16	0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	0.38	0.47	0.28	0.31	0.16	< 0.10	< 0.10	< 0.10	< 0.10	
Total Of 16 PAH's	N	2800	mg/kg	2.0	9.5	9.7	9.9	5.5	5.9	< 2.0	< 2.0	< 2.0	< 2.0	
Total Phenols	M	2920	mg/kg	0.10										

Results - Soil

Project: 46924 Newark Road, Sutton-In-Ashfield

Client: Eastwood & Partners				**Chemtest Job No.:**	22-12706	22-12706	22-12706	22-12706	22-12706	22-12706	22-12706	22-12706	22-12706
Quotation No.:				**Chemtest Sample ID.:**	1405078	1405079	1405080	1405081	1405082	1405083	1405084	1405085	1405086
Order No.: 46924				Client Sample Ref.:	TS	TS	TS	TS	TS	NAT	NAT	NAT	NAT
				Client Sample ID.:	TP40	TP42	TP11	TP32	TP30	TP18	TP19	TP22	TP30
				Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):	0.3	0.1	0.2	0.2	0.15	1.3	0.8	1.2	1.2
				Bottom Depth (m):	0.3	0.1	0.2	0.2	0.15	1.3	0.8	1.2	1.2
				Date Sampled:	28-Mar-2022	28-Mar-2022	30-Mar-2022	30-Mar-2022	30-Mar-2022	28-Mar-2022	24-Mar-2022	28-Mar-2022	28-Mar-2022
				Asbestos Lab:	COVENTRY	COVENTRY							
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
ACM Type	U	2192		N/A	-	-							
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected							
Moisture	N	2030	%	0.020	11	11	17	13	12	16	8.4	12	12
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones and Roots	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand
pH	M	2010		4.0	8.0	7.9				8.2	8.3	8.1	7.9
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010						< 0.010	0.012	< 0.010	0.011
Total Sulphur	M	2175	%	0.010						< 0.010	< 0.010	< 0.010	0.013
Sulphate (Acid Soluble)	U	2430	%	0.010						< 0.010	< 0.010	< 0.010	< 0.010
Arsenic	M	2450	mg/kg	1.0	2.9	< 1.0				< 1.0	< 1.0	< 1.0	1.7
Cadmium	M	2450	mg/kg	0.10	0.11	< 0.10				< 0.10	< 0.10	< 0.10	< 0.10
Chromium	M	2450	mg/kg	1.0	7.6	4.2				5.9	3.0	3.6	9.7
Copper	M	2450	mg/kg	0.50	8.6	1.8				5.6	3.8	1.1	5.0
Mercury	M	2450	mg/kg	0.10	< 0.10	< 0.10				< 0.10	< 0.10	< 0.10	< 0.10
Nickel	M	2450	mg/kg	0.50	6.6	6.6				8.4	4.7	4.8	4.7
Lead	M	2450	mg/kg	0.50	26	1.8				1.2	1.8	0.93	16
Selenium	M	2450	mg/kg	0.20	< 0.20	< 0.20				< 0.20	< 0.20	< 0.20	< 0.20
Zinc	M	2450	mg/kg	0.50	31	9.7				11	10	7.7	22
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50				< 0.50	< 0.50	< 0.50	< 0.50
Total Organic Carbon	M	2625	%	0.20									
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0									
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0									
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0									
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0									
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0									
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0									
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0									
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0									
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0									
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0									
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0									
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0									
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0									
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0									

Results - Soil

Project: 46924 Newark Road, Sutton-In-Ashfield

Client: Eastwood & Partners		**Chemtest Job No.:**			22-12706	22-12706	22-12706	22-12706	22-12706	22-12706	22-12706	22-12706	22-12706
Quotation No.:		**Chemtest Sample ID.:**			1405078	1405079	1405080	1405081	1405082	1405083	1405084	1405085	1405086
Order No.: 46924		Client Sample Ref.:			TS	TS	TS	TS	TS	NAT	NAT	NAT	NAT
		Client Sample ID.:			TP40	TP42	TP11	TP32	TP30	TP18	TP19	TP22	TP30
		Sample Type:			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):			0.3	0.1	0.2	0.2	0.15	1.3	0.8	1.2	1.2
		Bottom Depth (m):			0.3	0.1	0.2	0.2	0.15	1.3	0.8	1.2	1.2
		Date Sampled:			28-Mar-2022	28-Mar-2022	30-Mar-2022	30-Mar-2022	30-Mar-2022	28-Mar-2022	24-Mar-2022	28-Mar-2022	28-Mar-2022
		Asbestos Lab:			COVENTRY	COVENTRY							
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0									
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0									
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0									
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0									
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0									
Naphthalene	M	2800	mg/kg	0.10	< 0.10	< 0.10				< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10				< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	M	2800	mg/kg	0.10	< 0.10	< 0.10				< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2800	mg/kg	0.10	< 0.10	< 0.10				< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2800	mg/kg	0.10	< 0.10	< 0.10				< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10				< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	M	2800	mg/kg	0.10	0.29	< 0.10				< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	M	2800	mg/kg	0.10	0.25	< 0.10				< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	M	2800	mg/kg	0.10	0.16	< 0.10				< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	M	2800	mg/kg	0.10	0.15	< 0.10				< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10				< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10				< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10				< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10				< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	< 0.10				< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	< 0.10	< 0.10				< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	N	2800	mg/kg	2.0	< 2.0	< 2.0				< 2.0	< 2.0	< 2.0	< 2.0
Total Phenols	M	2920	mg/kg	0.10									

Results - Soil

Project: 46924 Newark Road, Sutton-In-Ashfield

Client: Eastwood & Partners			**Chemtest Job No.:**		22-12706	22-12706	22-12706	22-12706	22-12706	22-12706	22-12706	22-12706
Quotation No.:			**Chemtest Sample ID.:**		1405087	1405088	1405089	1405090	1405091	1405092	1405093	1405094
Order No.: 46924			Client Sample Ref.:		MG	MG	MG	MG	MG	MG	MG	MG
			Client Sample ID.:		TP07	TP08	TP11	TP12	TP13	TP14	TP16	TP17
			Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Top Depth (m):		0.4	1.2	0.8	1.4	1.6	2.1	0.8	0.6
			Bottom Depth (m):		0.4	1.2	0.8	1.4	1.6	2.1	0.8	0.6
			Date Sampled:		24-Mar-2022	24-Mar-2022	28-Mar-2022	24-Mar-2022	24-Mar-2022	16-Mar-2022	16-Mar-2022	24-Mar-2022
			Asbestos Lab:		COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**								
ACM Type	U	2192		N/A	-	-	-	-	-	-	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020	15	20	12	20	13	14	14	17
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand
pH	M	2010		4.0	8.1	8.5	8.1	7.9	8.0	8.0	8.2	8.1
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	0.013	0.058	0.012	0.38	0.32	0.30	0.88	0.012
Total Sulphur	M	2175	%	0.010	< 0.010	0.080	< 0.010	0.22	0.28	0.30	0.11	0.11
Sulphate (Acid Soluble)	U	2430	%	0.010	< 0.010	0.035	< 0.010	0.14	0.14	0.17	0.14	0.011
Arsenic	M	2450	mg/kg	1.0	1.1	8.1	< 1.0	< 1.0	9.5	3.5	1.8	1.5
Cadmium	M	2450	mg/kg	0.10	0.10	0.40	< 0.10	0.42	0.86	0.85	0.17	0.38
Chromium	M	2450	mg/kg	1.0	8.0	14	5.3	6.8	90	83	7.1	19
Copper	M	2450	mg/kg	0.50	2.5	40	3.0	10	49	32	19	21
Mercury	M	2450	mg/kg	0.10	< 0.10	0.13	< 0.10	< 0.10	0.13	0.20	0.13	0.12
Nickel	M	2450	mg/kg	0.50	11	17	7.6	5.4	73	14	8.4	13
Lead	M	2450	mg/kg	0.50	2.3	110	3.5	35	86	130	88	26
Selenium	M	2450	mg/kg	0.20	< 0.20	0.30	< 0.20	< 0.20	0.61	0.23	< 0.20	< 0.20
Zinc	M	2450	mg/kg	0.50	24	130	15	200	300	190	57	74
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total Organic Carbon	M	2625	%	0.20		4.6		< 0.20	4.1	3.2	2.5	
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0		< 1.0		< 1.0	< 1.0	[B] < 1.0	[B] < 1.0	
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0		< 1.0		< 1.0	< 1.0	[B] < 1.0	[B] < 1.0	
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0		< 1.0		< 1.0	< 1.0	[B] < 1.0	[B] < 1.0	
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0		< 1.0		< 1.0	< 1.0	[B] < 1.0	[B] < 1.0	
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0		< 1.0		< 1.0	< 1.0	[B] 170	[B] < 1.0	
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0		< 1.0		< 1.0	< 1.0	[B] 440	[B] < 1.0	
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0		< 1.0		< 1.0	22	[B] 1300	[B] < 1.0	
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0		< 1.0		< 1.0	< 1.0	[B] 27	[B] < 1.0	
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0		< 5.0		< 5.0	22	[B] 2000	[B] < 5.0	
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0		< 1.0		< 1.0	< 1.0	[B] < 1.0	[B] < 1.0	
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0		< 1.0		< 1.0	< 1.0	[B] < 1.0	[B] < 1.0	
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0		< 1.0		< 1.0	< 1.0	[B] < 1.0	[B] < 1.0	
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0		< 1.0		< 1.0	< 1.0	[B] < 1.0	[B] < 1.0	
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0		< 1.0		< 1.0	< 1.0	[B] 42	[B] < 1.0	

Results - Soil

Project: 46924 Newark Road, Sutton-In-Ashfield

Client: Eastwood & Partners					**Chemtest Job No.:**	22-12706	22-12706	22-12706	22-12706	22-12706	22-12706	22-12706
Quotation No.:					**Chemtest Sample ID.:**	1405087	1405088	1405089	1405090	1405091	1405092	1405093	1405094
Order No.: 46924					Client Sample Ref.:	MG	MG	MG	MG	MG	MG	MG	MG
					Client Sample ID.:	TP07	TP08	TP11	TP12	TP13	TP14	TP16	TP17
					Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
					Top Depth (m):	0.4	1.2	0.8	1.4	1.6	2.1	0.8	0.6
					Bottom Depth (m):	0.4	1.2	0.8	1.4	1.6	2.1	0.8	0.6
					Date Sampled:	24-Mar-2022	24-Mar-2022	28-Mar-2022	24-Mar-2022	24-Mar-2022	16-Mar-2022	16-Mar-2022	24-Mar-2022
					Asbestos Lab:	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0		< 1.0		61	40	[B] 440	[B] 57	
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0		< 1.0		190	130	[B] 2000	[B] 240	
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0		< 1.0		< 1.0	< 1.0	[B] 200	[B] < 1.0	
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0		< 5.0		250	170	[B] 2700	[B] 300	
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0		< 10		250	190	[B] 4700	[B] 300	
Naphthalene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	5.5	4.5	3.9	3.4	< 0.10
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.91	0.69	0.61	0.61	< 0.10
Acenaphthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	3.4	1.8	1.7	1.1	< 0.10
Fluorene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	3.3	1.3	1.9	0.74	< 0.10
Phenanthrene	M	2800	mg/kg	0.10	< 0.10	0.54	< 0.10	14	7.8	8.0	7.0	< 0.10
Anthracene	M	2800	mg/kg	0.10	< 0.10	0.21	< 0.10	3.9	2.1	1.8	1.8	< 0.10
Fluoranthene	M	2800	mg/kg	0.10	< 0.10	1.3	< 0.10	16	14	15	8.6	0.29
Pyrene	M	2800	mg/kg	0.10	< 0.10	1.3	< 0.10	14	12	13	7.3	0.29
Benzo[a]anthracene	M	2800	mg/kg	0.10	< 0.10	0.64	< 0.10	6.4	5.4	5.6	3.4	< 0.10
Chrysene	M	2800	mg/kg	0.10	< 0.10	0.59	< 0.10	7.1	5.6	6.7	3.4	< 0.10
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	< 0.10	1.2	< 0.10	8.5	6.3	7.7	3.8	< 0.10
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	< 0.10	0.31	< 0.10	3.6	2.2	3.0	1.6	< 0.10
Benzo[a]pyrene	M	2800	mg/kg	0.10	< 0.10	0.89	< 0.10	8.3	5.5	6.5	3.8	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	5.1	2.8	4.0	2.0	< 0.10
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.62	0.64	0.62	0.52	< 0.10
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	5.1	2.9	3.9	2.0	< 0.10
Total Of 16 PAH's	N	2800	mg/kg	2.0	< 2.0	7.0	< 2.0	110	76	84	51	< 2.0
Total Phenols	M	2920	mg/kg	0.10		< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	

Results - Topsoil Report

BS3882:2015

Chemtest Job No.: 22-12706
Chemtest Sample ID.: 1405080
Client Sample Ref.: TS
Sample Location:
Client Sample ID.: TP11
Top Depth (m): 0.2
Bottom Depth (m): 0.2
Date Sampled: 30-Mar-2022
Time Sampled:

Parameter	Units	Multipurpose Range			Result	Compliant with Multipurpose Range? (Y/N)	Compliant with Specific Purpose Range? (Y/N)		
Texture							**Acid**	**Low F**	**Calc.**
Clay content	%				4.8				
Silt content	%				11				
Sand content	%				84				
Soil texture class		See Attached Chart			Loamy Sand	NO			
Mass Loss on Ignition									
Clay 5-20%		3.0-20			1.7	NO	NO	NO	NO
Clay 20-35%		5.0-20							
Stone Content	**% m/m**								
>2mm		0-30			2.9	YES			
>20mm		0-10			< 0.020	YES			
>50mm		0			< 0.020	YES			
Soil pH value		5.5-8.5			8.1	YES	NO	YES	YES
Carbonate (Calcareous only)	%				< 0.10				NO
Electrical Conductivity	µS/cm	If >3300 do ESP			2100	YES			
Available Nutrient Content									
Nitrogen %		>0.15			0.050	NO	NO		NO
Extractable phosphorus	mg/l	16-140			44	YES	YES	NO	YES
Extractable potassium	mg/l	121-1500			120	NO	NO		NO
Extractable magnesium	mg/l	51-600			130	YES	YES		YES
Carbon : Nitrogen Ratio		<20:1			19.8/1	YES	YES	YES	YES
Exchangeable sodium	**%**	<15			1.7				
Available Calcium	mg/l				270				
Available Sodium	mg/l				32				
Phytotoxic Contaminants (by soil pH)		**< 6.0**	**6.0-7.0**	**> 7.0**					
Zinc (Nitric Acid extract)	mg/kg	<200	<200	<300	150	YES			
Copper (Nitric Acid extract)	mg/kg	<100	<135	<200	51	YES			
Nickel (Nitric Acid extract)	mg/kg	<60	<75	<110	26	YES			
Visible Contaminants	**% mm**								
>2mm		<0.5			0.000	YES			
….. of which plastics		<0.25			0.000	YES			
….. man-made sharps		zero in 1kg			0.000	YES			

Results - Topsoil Report

BS3882:2015

Chemtest Job No.: 22-12706
Chemtest Sample ID.: 1405081
Client Sample Ref.: TS
Sample Location:
Client Sample ID.: TP32
Top Depth (m): 0.2
Bottom Depth (m): 0.2
Date Sampled: 30-Mar-2022
Time Sampled:

Parameter	Units	Multipurpose Range			Result	Compliant with Multipurpose Range? (Y/N)	Compliant with Specific Purpose Range? (Y/N)		
Texture							**Acid**	**Low F**	**Calc.**
Clay content	%				3.2				
Silt content	%				9.7				
Sand content	%				87				
Soil texture class		See Attached Chart			Sand	NO			
Mass Loss on Ignition									
Clay 5-20%		3.0-20			1.9	NO	NO	NO	NO
Clay 20-35%		5.0-20							
Stone Content	**% m/m**								
>2mm		0-30			0.61	YES			
>20mm		0-10			< 0.020	YES			
>50mm		0			< 0.020	YES			
Soil pH value		5.5-8.5			7.7	YES	NO	YES	YES
Carbonate (Calcareous only)	%				< 0.10				NO
Electrical Conductivity	µS/cm	If >3300 do ESP			2100	YES			
Available Nutrient Content									
Nitrogen %		>0.15			0.040	NO	NO		NO
Extractable phosphorus	mg/l	16-140			25	YES	YES	NO	YES
Extractable potassium	mg/l	121-1500			120	NO	NO		NO
Extractable magnesium	mg/l	51-600			140	YES	YES		YES
Carbon : Nitrogen Ratio		<20:1			27.6/1	NO	NO	YES	NO
Exchangeable sodium	**%**	<15			1.3				
Available Calcium	mg/l				220				
Available Sodium	mg/l				21				
Phytotoxic Contaminants (by soil pH)		**< 6.0**	**6.0-7.0**	**> 7.0**					
Zinc (Nitric Acid extract)	mg/kg	<200	<200	<300	25	YES			
Copper (Nitric Acid extract)	mg/kg	<100	<135	<200	7.2	YES			
Nickel (Nitric Acid extract)	mg/kg	<60	<75	<110	< 5.0	YES			
Visible Contaminants	**% mm**								
>2mm		<0.5			0.000	YES			
….. of which plastics		<0.25			0.000	YES			
….. man-made sharps		zero in 1kg			0.000	YES			

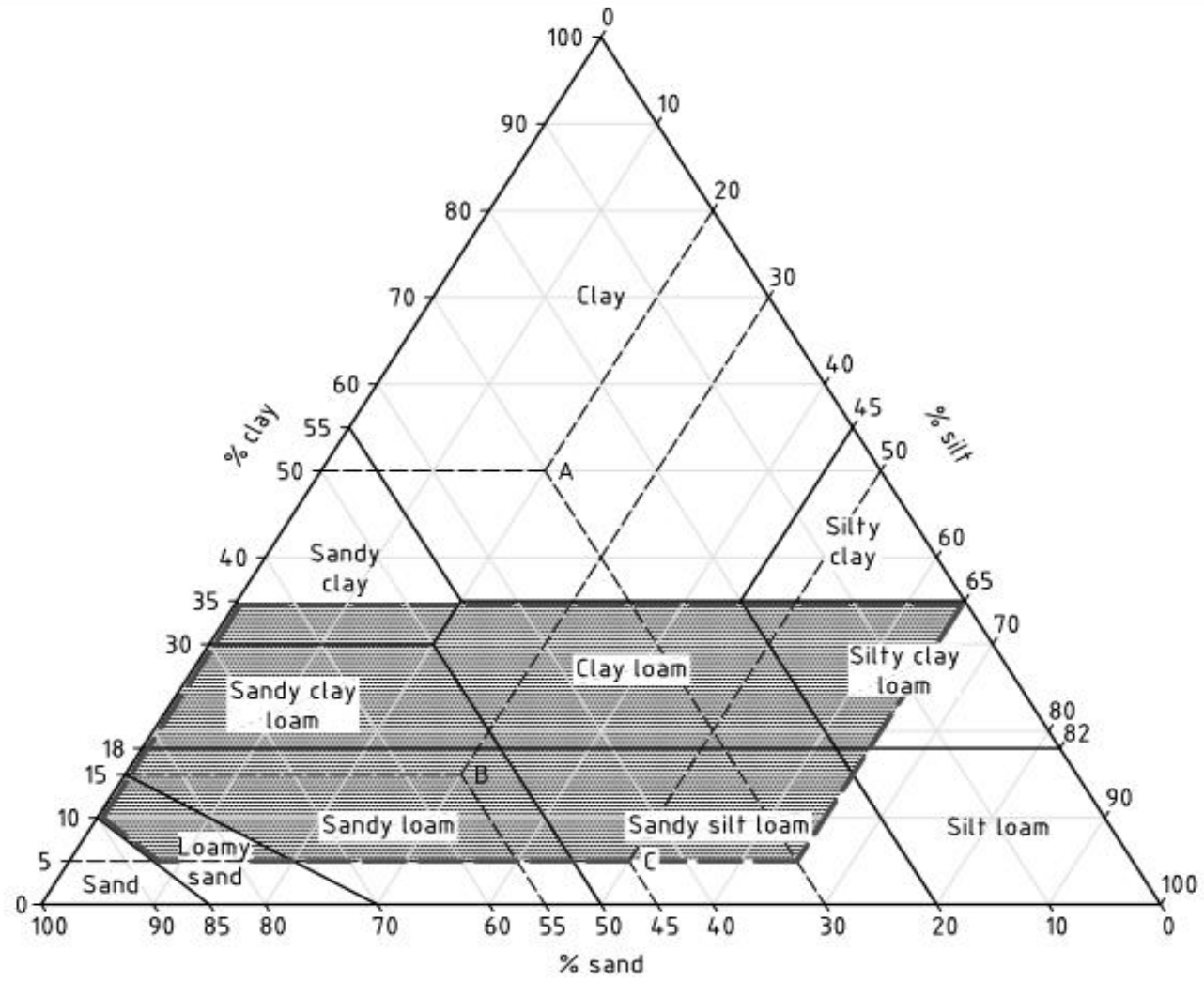
Results - Topsoil Report

BS3882:2015

Chemtest Job No.: 22-12706
Chemtest Sample ID.: 1405082
Client Sample Ref.: TS
Sample Location:
Client Sample ID.: TP30
Top Depth (m): 0.15
Bottom Depth (m): 0.15
Date Sampled: 30-Mar-2022
Time Sampled:

Parameter	Units	Multipurpose Range			Result	Compliant with Multipurpose Range? (Y/N)	Compliant with Specific Purpose Range? (Y/N)		
Texture							**Acid**	**Low F**	**Calc.**
Clay content	%				0.000				
Silt content	%				12				
Sand content	%				90				
Soil texture class		See Attached Chart			Sand	NO			
Mass Loss on Ignition									
Clay 5-20%		3.0-20			3.1	NO	NO	YES	NO
Clay 20-35%		5.0-20							
Stone Content	**% m/m**								
>2mm		0-30			32	NO			
>20mm		0-10			11	NO			
>50mm		0			< 0.020	YES			
Soil pH value		5.5-8.5			8.2	YES	NO	YES	YES
Carbonate (Calcareous only)	%				< 0.10				NO
Electrical Conductivity	µS/cm	If >3300 do ESP			2100	YES			
Available Nutrient Content									
Nitrogen %		>0.15			0.090	NO	NO		NO
Extractable phosphorus	mg/l	16-140			12	NO	NO	YES	NO
Extractable potassium	mg/l	121-1500			210	YES	YES		YES
Extractable magnesium	mg/l	51-600			98	YES	YES		YES
Carbon : Nitrogen Ratio		<20:1			20.1/1	NO	NO	YES	NO
Exchangeable sodium	**%**	<15			1.0				
Available Calcium	mg/l				330				
Available Sodium	mg/l				23				
Phytotoxic Contaminants (by soil pH)		**< 6.0**	**6.0-7.0**	**> 7.0**					
Zinc (Nitric Acid extract)	mg/kg	<200	<200	<300	170	YES			
Copper (Nitric Acid extract)	mg/kg	<100	<135	<200	22	YES			
Nickel (Nitric Acid extract)	mg/kg	<60	<75	<110	17	YES			
Visible Contaminants	**% mm**								
>2mm		<0.5			0.000	YES			
….. of which plastics		<0.25			0.000	YES			
….. man-made sharps		zero in 1kg			0.000	YES			

Topsoil:
Texture Classification Chart



Key

Area within which the texture of topsoil is required to fall

NOTE Examples of textural classification are as follows.

- *Soil A with 30% sand, 20% silt and 50% clay is in the "clay" textural class.*
- *Soil B with 55% sand, 30% silt and 15% clay is in the "sandy loam" textural class.*
- *Soil C with 45% sand, 50% silt and 5% clay is in the "sandy silt loam" textural class.*

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:
1405092	MG	TP14		16-Mar-2022	B	Amber Glass 250ml
1405092	MG	TP14		16-Mar-2022	B	Plastic Tub 500g
1405093	MG	TP16		16-Mar-2022	B	Amber Glass 250ml
1405093	MG	TP16		16-Mar-2022	B	Plastic Tub 500g

Test Methods

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH	pH Meter
2020	Electrical Conductivity	Electrical conductivity (EC) of aqueous extract or calcium sulphate solution for topsoil	Measurement of the electrical resistance of a 2:1 water/soil extract.
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
2115	Total Nitrogen in Soils	Nitrogen	Determination by elemental analyser
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2175	Total Sulphur in Soils	Total Sulphur	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2260	Carbonate	Carbonate	Titration
2400	Cations	Cations	ICP-MS
2420	Phosphate	Phosphate	Spectrophotometry - Discrete analyser
2430	Total Sulphate in soils	Total Sulphate	Acid digestion followed by determination of sulphate in extract by ICP-OES.
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.
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.
2620	LOI 440	LOI 440 Trommel Fines	Determination of the proportion by mass that is lost from a soil by ignition at 440°C.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	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-MS
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical 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

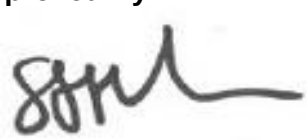
eurofins | Chemtest
Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.:	22-14071-1
Initial Date of Issue:	21-Apr-2022
Client	Eastwood & Partners
Client Address:	St. Andrews House 23 Kingfield Road Sheffield South Yorkshire S11 9AS
Contact(s):	Alex Richmond Geo
Project	46924 Neward Road, Sutton in Ashfield

Quotation No.:		**Date Received:**	13-Apr-2022
Order No.:	46924	**Date Instructed:**	13-Apr-2022
No. of Samples:	5		
Turnaround (Wkdays):	5	**Results Due:**	21-Apr-2022
Date Approved:	21-Apr-2022		

Approved By:



Details: Stuart Henderson, Technical Manager

Results - Soil

Project: 46924 Neward Road, Sutton in Ashfield

Client: Eastwood & Partners				**Chemtest Job No.:**	22-14071	22-14071	22-14071	22-14071	22-14071
Quotation No.:				**Chemtest Sample ID.:**	1411302	1411303	1411304	1411305	1411306
				Client Sample ID.:	CP02	CP02	CP02	CP03	CP03
				Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):	5.75	6.25	6.80	6.10	7.10
				Bottom Depth (m):	5.75	6.70	6.80	6.35	7.55
				Date Sampled:	11-Apr-2022	11-Apr-2022	11-Apr-2022	11-Apr-2022	11-Apr-2022
				Asbestos Lab:	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**					
ACM Type	U	2192		N/A	-	-	-	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020	13	16	14	16	17
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones	Stones	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Gravel	Clay	Loam	Gravel	Gravel
pH	M	2010		4.0	9.1	9.6	9.2	10.7	9.1
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	0.35	0.61	0.12	0.27	0.14
Total Sulphur	M	2175	%	0.010	0.15	0.23	0.15	0.19	0.22
Sulphate (Acid Soluble)	U	2430	%	0.010	0.079	0.18	0.12	0.29	0.12
Arsenic	M	2450	mg/kg	1.0	16	5.3	4.9	4.9	9.2
Cadmium	M	2450	mg/kg	0.10	0.63	0.30	0.45	0.11	0.32
Chromium	M	2450	mg/kg	1.0	21	14	7.6	19	19
Copper	M	2450	mg/kg	0.50	8.2	7.2	36	9.4	23
Mercury	M	2450	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Nickel	M	2450	mg/kg	0.50	18	10	5.6	12	15
Lead	M	2450	mg/kg	0.50	12	5.3	39	36	48
Selenium	M	2450	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Zinc	M	2450	mg/kg	0.50	31	18	40	47	78
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total Organic Carbon	M	2625	%	0.20	4.2	2.9	5.3	1.3	3.0
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	100	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	88	< 1.0	150	670	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	110	31	320	670	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	850	29	1100	1600	290
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	130	37	71	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	1200	98	1600	3100	290
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	13	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	280	130	280	72	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	1100	450	970	150	13
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	2600	1200	3300	1000	110

Results - Soil

Project: 46924 Neward Road, Sutton in Ashfield

Client: Eastwood & Partners			**Chemtest Job No.:**		22-14071	22-14071	22-14071	22-14071	22-14071
Quotation No.:			**Chemtest Sample ID.:**		1411302	1411303	1411304	1411305	1411306
			Client Sample ID.:		CP02	CP02	CP02	CP03	CP03
			Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL
			Top Depth (m):		5.75	6.25	6.80	6.10	7.10
			Bottom Depth (m):		5.75	6.70	6.80	6.35	7.55
			Date Sampled:		11-Apr-2022	11-Apr-2022	11-Apr-2022	11-Apr-2022	11-Apr-2022
			Asbestos Lab:		COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**					
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	200	< 1.0	100	< 1.0	25
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	4200	1800	4600	1200	140
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	5400	1900	6300	4300	430
Dichlorodifluoromethane	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	M	2760	µg/kg	20	< 20	< 20	< 20	< 20	< 20
Chloroethane	U	2760	µg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Trichlorofluoromethane	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans 1,2-Dichloroethene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis 1,2-Dichloroethene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromochloromethane	U	2760	µg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trichloromethane	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloromethane	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	M	2760	µg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Trichloroethene	N	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	M	2760	µg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
cis-1,3-Dichloropropene	N	2760	µg/kg	10	< 10	< 10	< 10	< 10	< 10
Toluene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-Dichloropropene	N	2760	µg/kg	10	< 10	< 10	< 10	< 10	< 10
1,1,2-Trichloroethane	M	2760	µg/kg	10	< 10	< 10	< 10	< 10	< 10
Tetrachloroethene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	U	2760	µg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dibromochloromethane	U	2760	µg/kg	10	< 10	< 10	< 10	< 10	< 10
1,2-Dibromoethane	M	2760	µg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chlorobenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	M	2760	µg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	1.6	< 1.0
m & p-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	3.2	< 1.0
o-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	2.2	< 1.0
Styrene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: 46924 Neward Road, Sutton in Ashfield

Client: Eastwood & Partners			**Chemtest Job No.:**		22-14071	22-14071	22-14071	22-14071	22-14071
Quotation No.:			**Chemtest Sample ID.:**		1411302	1411303	1411304	1411305	1411306
			Client Sample ID.:		CP02	CP02	CP02	CP03	CP03
			Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL
			Top Depth (m):		5.75	6.25	6.80	6.10	7.10
			Bottom Depth (m):		5.75	6.70	6.80	6.35	7.55
			Date Sampled:		11-Apr-2022	11-Apr-2022	11-Apr-2022	11-Apr-2022	11-Apr-2022
			Asbestos Lab:		COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**					
Tribromomethane	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane	N	2760	µg/kg	50	< 50	< 50	< 50	< 50	< 50
N-Propylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tert-Butylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Sec-Butylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Isopropyltoluene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
N-Butylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50	< 50	< 50	< 50	< 50	< 50
1,2,4-Trichlorobenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	U	2760	µg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
N-Nitrosodimethylamine	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Phenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Chlorophenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis-(2-Chloroethyl)Ether	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3-Dichlorobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,4-Dichlorobenzene	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichlorobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methylphenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis(2-Chloroisopropyl)Ether	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachloroethane	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
N-Nitrosodi-n-propylamine	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Methylphenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Nitrobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Isophorone	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Nitrophenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dimethylphenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis(2-Chloroethoxy)Methane	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Results - Soil

Project: 46924 Neward Road, Sutton in Ashfield

Client: Eastwood & Partners			**Chemtest Job No.:**		22-14071	22-14071	22-14071	22-14071	22-14071
Quotation No.:			**Chemtest Sample ID.:**		1411302	1411303	1411304	1411305	1411306
			Client Sample ID.:		CP02	CP02	CP02	CP03	CP03
			Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL
			Top Depth (m):		5.75	6.25	6.80	6.10	7.10
			Bottom Depth (m):		5.75	6.70	6.80	6.35	7.55
			Date Sampled:		11-Apr-2022	11-Apr-2022	11-Apr-2022	11-Apr-2022	11-Apr-2022
			Asbestos Lab:		COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**					
2,4-Dichlorophenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,4-Trichlorobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Naphthalene	M	2790	mg/kg	0.50	4.4	2.0	< 0.50	6.8	< 0.50
4-Chloroaniline	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorobutadiene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chloro-3-Methylphenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methylnaphthalene	M	2790	mg/kg	0.50	3.6	1.9	1.1	6.5	< 0.50
4-Nitrophenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorocyclopentadiene	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4,6-Trichlorophenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4,5-Trichlorophenol	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Chloronaphthalene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Nitroaniline	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Acenaphthylene	M	2790	mg/kg	0.50	< 0.50	0.93	< 0.50	< 0.50	< 0.50
Dimethylphthalate	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,6-Dinitrotoluene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Acenaphthene	M	2790	mg/kg	0.50	18	6.5	6.2	2.7	< 0.50
3-Nitroaniline	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dibenzofuran	M	2790	mg/kg	0.50	13	7.5	6.2	1.4	< 0.50
4-Chlorophenylphenylether	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dinitrotoluene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Fluorene	M	2790	mg/kg	0.50	20	8.4	8.1	2.1	< 0.50
Diethyl Phthalate	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Nitroaniline	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methyl-4,6-Dinitrophenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Azobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Bromophenylphenyl Ether	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorobenzene	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Pentachlorophenol	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Phenanthrene	M	2790	mg/kg	0.50	97	38	36	13	0.79
Anthracene	M	2790	mg/kg	0.50	32	10	11	3.3	< 0.50
Carbazole	M	2790	mg/kg	0.50	11	4.4	3.8	0.80	< 0.50
Di-N-Butyl Phthalate	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Fluoranthene	M	2790	mg/kg	0.50	83	34	34	17	1.1
Pyrene	M	2790	mg/kg	0.50	65	31	30	16	0.88
Butylbenzyl Phthalate	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[a]anthracene	M	2790	mg/kg	0.50	26	11	14	5.9	< 0.50
Chrysene	M	2790	mg/kg	0.50	22	13	12	6.1	< 0.50

Results - Soil

Project: 46924 Neward Road, Sutton in Ashfield

Client: Eastwood & Partners			**Chemtest Job No.:**		22-14071	22-14071	22-14071	22-14071	22-14071
Quotation No.:			**Chemtest Sample ID.:**		1411302	1411303	1411304	1411305	1411306
			Client Sample ID.:		CP02	CP02	CP02	CP03	CP03
			Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL
			Top Depth (m):		5.75	6.25	6.80	6.10	7.10
			Bottom Depth (m):		5.75	6.70	6.80	6.35	7.55
			Date Sampled:		11-Apr-2022	11-Apr-2022	11-Apr-2022	11-Apr-2022	11-Apr-2022
			Asbestos Lab:		COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**					
Bis(2-Ethylhexyl)Phthalate	N	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Di-N-Octyl Phthalate	M	2790	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[b]fluoranthene	M	2790	mg/kg	0.50	20	6.2	12	8.9	0.70
Benzo[k]fluoranthene	M	2790	mg/kg	0.50	11	5.1	5.4	2.9	< 0.50
Benzo[a]pyrene	M	2790	mg/kg	0.50	19	9.6	9.2	8.5	0.61
Indeno(1,2,3-c,d)Pyrene	M	2790	mg/kg	0.50	11	4.9	5.5	4.1	< 0.50
Dibenz(a,h)Anthracene	M	2790	mg/kg	0.50	2.7	1.2	1.5	0.98	< 0.50
Benzo[g,h,i]perylene	M	2790	mg/kg	0.50	11	5.1	5.7	4.7	< 0.50
Naphthalene	M	2800	mg/kg	0.10	3.0	1.4	1.3	0.50	0.58
Acenaphthylene	N	2800	mg/kg	0.10	0.52	1.3	1.1	0.11	0.11
Acenaphthene	M	2800	mg/kg	0.10	17	19	16	1.3	0.94
Fluorene	M	2800	mg/kg	0.10	24	24	19	1.6	0.88
Phenanthrene	M	2800	mg/kg	0.10	130	140	120	8.7	4.3
Anthracene	M	2800	mg/kg	0.10	41	43	36	2.2	1.2
Fluoranthene	M	2800	mg/kg	0.10	120	140	110	7.4	4.8
Pyrene	M	2800	mg/kg	0.10	91	110	88	5.9	4.1
Benzo[a]anthracene	M	2800	mg/kg	0.10	36	48	38	2.5	1.8
Chrysene	M	2800	mg/kg	0.10	36	47	37	2.5	1.7
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	33	45	35	2.3	1.9
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	13	18	14	0.89	0.58
Benzo[a]pyrene	M	2800	mg/kg	0.10	32	43	33	2.1	1.7
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	15	19	15	0.97	0.95
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	2.5	3.7	3.2	0.21	0.18
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	14	18	14	0.96	0.89
Total Of 16 PAH's	N	2800	mg/kg	2.0	610	720	580	40	27
Total Phenols	M	2920	mg/kg	0.10	< 0.10	1.2	2.4	< 0.10	< 0.10

Test Methods

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH	pH Meter
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
2175	Total Sulphur in Soils	Total Sulphur	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2430	Total Sulphate in soils	Total Sulphate	Acid digestion followed by determination of sulphate in extract by ICP-OES.
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.
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.
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection
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.
2790	Semi-Volatile Organic Compounds (SVOCs) in Soils by GC-MS	Semi-volatile organic compounds(cf. USEPA Method 8270)	Acetone/Hexane extraction / GC-MS
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	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-MS
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical 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

Inorganic Compounds	Human Health - Residential with Homegrown Produce (mg/kg)
Arsenic	37
Cadmium	11
Chromium (III)	910
Chromium (VI)	6
Lead	200
Mercury	1.2
Nickel	180
Selenium	250
Copper	2400
Zinc	3700

Organic Compounds	Human Health - Residential with Homegrown Produce (mg/kg)		
	1% SOM	2.5% SOM	6% SOM
Naphthalene	2.3	5.6	13
Acenaphthene	210	510	1100
Acenaphthylene	170	420	920
Fluorene	170	400	860
Phenanthrene	95	220	440
Anthracene	2400	5400	11000
Fluoranthene	280	560	890
Pyrene	620	1200	2000
Benzo(a)anthracene	7.2	11	13
Chrysene	15	22	27
Benzo(b)fluoranthene	2.6	3.3	3.7
Benzo(k)fluoranthene	77	93	100
Benzo(a)pyrene	2.2	2.7	3.0
Dibenz(a,h)anthracene	0.24	0.28	0.3
Indeno(1,2,3-cd)pyrene	27	36	41
Benzo(g,h,i)perylene	320	340	350
Benzene	0.087	0.17	0.37
Toluene	130	290	660
Ethylbenzene	47	110	260
o-Xylene	60	140	330
m-Xylene	59	140	320
p-Xylene	56	130	310

Prepared	KB	Checked	KE	Date	06.05.2022	Job No	46924

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NEWARK ROAD, SUTTON-IN-ASHFIELD

HARRON HOMES LIMITED

ASSESSMENT CRITERIA – RESIDENTIAL WITH HOMEGROWN PRODUCE

Contaminant	Phytotoxicity			
	pH 5.0 to 5.5	pH 5.5 to 6.0	pH 6.0 to 6.5	pH >7.0
Arsenic	50			
Cadmium	3			
Chromium	400			
Lead	300			
Mercury	1			
Nickel	50	60	75	110
Copper	80	100	135	200
Zinc	200	200	200	300

The assessment concentration for lead is the Category 4 Screening Level produced by Contaminated Land: Applications in Real Environments (CL:AIRE) and outlined in Appendix H of their report SP1010. The others have been taken from Nathanail, C. P., McCaffrey, C., Gillett, A., Ogden, R., and Nathanail, J., 2015, *'The LQM/CIEH S4ULs for Human Health Risk Assessment'*, Land Quality Press, Nottingham. The metals/metalloids are based on a sandy loam soil and 6% soil organic matter. The assessment values are not intended to be applied to individual sample results where materials are similar, as the levels of contaminants will have a natural variability across the site. Instead, the modified mean value should be compared with the assessment concentration.

The assessment values for phytotoxicity are the levels at which plant growth is thought to be affected. They are taken from the maximum permissible and advisable concentrations in soil after application of soil sludge given in the *'The Code of Good Agricultural Practice for the Protection of Soil*', MAFF, 1998.

The assessment of sulphate, water soluble sulphate, elemental sulphur and sulphide is to determine the aggressive nature of the ground with respect to concrete and consequently the results are compared with BRE Special Digest 1:2005 '*Concrete in Aggressive Ground*'.

Prepared	KB	Checked	KE	Date	06.05.2022	Job No	46924

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NEWARK ROAD, SUTTON-IN-ASHFIELD

HARRON HOMES LIMITED

ASSESSMENT CRITERIA – RESIDENTIAL WITH HOMEGROWN PRODUCE

Eastwood&Partners
CONSULTING ENGINEERS

SITE:	Newark Road, Sutton-in-Ashfield	Job No.	Date
		46924	04/05/2022
SUBJECT:	Mean and Maximum Value Test: Benzo[a]Anthracene in Made Ground	Prepared	Checked
		ACR	

Results	Sample	Log x = y
36.00	CP02	1.556
48.00	CP02	1.681
38.00	CP02	1.580
2.50	CP03	0.398
1.80	CP03	0.255
2.30	TP03	0.362
1.70	TP05	0.230
2.20	TP06	0.342
0.64	TP08	-0.194
1.10	TP09	0.041
6.40	TP12	0.806
5.4	TP13	0.732
5.6	TP14	0.748
4.8	TP15	0.681
3.40	TP16	0.531
1.10	TP21	0.041

Number of results : n =	16
Mean : X =	10.06
Standard deviation : s =	15.46
T value : t =	1.753
Corrected mean (95% confidence)	
= X + t * s / n^0.5 =	**16.84**
Max value =	48.00
Log xm = ym =	1.681
Number of results : N =	16
Mean y =	0.612
Standard deviation of y : S =	0.566
T = (ym-ya) / S =	1.888
Tcrit (from table A1.3) =	2.28

Result Probably not an Outlier

Eastwood&Partners
CONSULTING ENGINEERS

SITE: Newark Road, Sutton-in-Ashfield	Job No. 46924	Date 12/04/2022
SUBJECT: Mean and Maximum Value Test: Benzo[a]pyrene in Made Ground	Prepared ACR	Checked

Results	Sample	Log x = y
2.80	TP03	0.447
1.90	TP05	0.279
2.40	TP06	0.380
0.89	TP08	-0.051
1.60	TP09	0.204
8.30	TP12	0.919
5.50	TP13	0.740
6.50	TP14	0.813
5.40	TP15	0.732
3.80	TP16	0.580
1.30	TP21	0.114
32.00	CP02	1.505
43.00	CP02	1.633
33.00	CP02	1.519
2.10	CP03	0.322
1.70	CP03	0.230

Number of results : n =	16
Mean : X =	9.51
Standard deviation : s =	13.49
T value : t =	1.753
Corrected mean (95% confidence)	
= X + t * s / n^0.5 =	**15.42**
Max value =	43.00
Log xm = ym =	1.633
Number of results : N =	16
Mean y =	0.648
Standard deviation of y : S =	0.522
T = (ym-ya) / S =	1.889
Tcrit (from table A1.3) =	2.28

Result Probably not an Outlier

Eastwood&Partners
CONSULTING ENGINEERS

E P

SITE:	Newark Road, Sutton-in-Ashfield	Job No.	Date
		46924	12/04/2022
SUBJECT:	Mean and Maximum Value Test: Benzo[b]fluoranthene in Made Ground	Prepared	Checked
		ACR	

Results	Sample	Log x = y
3.40	TP03	0.531
2.10	TP05	0.322
2.70	TP06	0.431
1.20	TP08	0.079
1.90	TP09	0.279
8.50	TP12	0.929
6.30	TP13	0.799
7.70	TP14	0.886
5.80	TP15	0.763
3.80	TP16	0.580
1.30	TP21	0.114
33.00	CP02	1.519
45.00	CP02	1.653
35.00	CP02	1.544
2.30	CP03	0.362
1.90	CP03	0.279

Number of results : n =	16
Mean : X =	10.12
Standard deviation : s =	14.05
T value : t =	1.753
Corrected mean (95% confidence)	
= X + t * s / n^0.5 =	**16.27**
Max value =	45.00
Log xm = ym =	1.653
Number of results : N =	16
Mean y =	0.692
Standard deviation of y : S =	0.506
T = (ym-ya) / S =	1.898
Tcrit (from table A1.3) =	2.28

Result Probably not an Outlier

Eastwood&Partners
CONSULTING ENGINEERS

E P

SITE: Newark Road, Sutton-in-Ashfield	Job No. 46924	Date 12/04/2022
SUBJECT: Mean and Maximum Value Test: Cadmium in Made Ground	Prepared ACR	Checked

Results	Sample	Log x = y
0.70	TP03	-0.155
12.00	TP05	1.079
0.60	TP06	-0.222
0.40	TP08	-0.398
0.41	TP09	-0.387
0.42	TP12	-0.377
0.86	TP13	-0.066
0.85	TP14	-0.071
1.30	TP15	0.114
0.17	TP16	-0.770
0.10	TP21	-1.000
0.63	CP02	-0.201
0.30	CP02	-0.523
0.45	CP02	-0.347
0.11	CP03	-0.959
0.32	CP03	-0.495

Number of results : n =	16
Mean : X =	1.23
Standard deviation : s =	2.89
T value : t =	1.753
Corrected mean (95% confidence)	
= X + t * s / n^0.5 =	**2.49**
Max value =	12.00
Log xm = ym =	1.079
Number of results : N =	16
Mean y =	-0.298
Standard deviation of y : S =	0.481
T = (ym-ya) / S =	2.862
Tcrit (from table A1.3) =	2.28

Result Probably an Outlier

Eastwood&Partners
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E P

SITE: Newark Road, Sutton-in-Ashfield	Job No. 46924	Date 04/05/2022
SUBJECT: Mean and Maximum Value Test: Chrysene in Made Ground	Prepared ACR	Checked

Results	Sample	Log x = y
36.00	CP02	1.556
47.00	CP02	1.672
37.00	CP02	1.568
2.50	CP03	0.398
1.70	CP03	0.230
2.80	TP03	0.447
1.60	TP05	0.204
2.40	TP06	0.380
0.59	TP08	-0.229
1.50	TP09	0.176
7.10	TP12	0.851
5.6	TP13	0.748
6.7	TP14	0.826
4.9	TP15	0.690
3.40	TP16	0.531
1.20	TP21	0.079

Number of results : n =	16
Mean : X =	10.12
Standard deviation : s =	15.11
T value : t =	1.753
Corrected mean (95% confidence)	
= X + t * s / n^0.5 =	**16.75**
Max value =	47.00
Log xm = ym =	1.672
Number of results : N =	16
Mean y =	0.633
Standard deviation of y : S =	0.558
T = (ym-ya) / S =	1.861
Tcrit (from table A1.3) =	2.28

Result Probably not an Outlier

Eastwood&Partners
CONSULTING ENGINEERS

E P

SITE: Newark Road, Sutton-in-Ashfield	Job No. 46924	Date 12/04/2022
SUBJECT: Mean and Maximum Value Test: Dibenz(a,h)Anthracene in Made Ground	Prepared ACR	Checked

Results	Sample	Log x = y
0.47	TP03	-0.328
0.10	TP05	-1.000
0.26	TP06	-0.585
0.10	TP08	-1.000
0.10	TP09	-1.000
0.62	TP12	-0.208
0.64	TP13	-0.194
0.62	TP14	-0.208
0.77	TP15	-0.114
0.52	TP16	-0.284
0.11	TP21	-0.959
2.50	CP02	0.398
3.70	CP02	0.568
3.20	CP02	0.505
0.21	CP03	-0.678
0.18	CP03	-0.745

Number of results : n =	16
Mean : X =	0.88
Standard deviation : s =	1.16
T value : t =	1.753
Corrected mean (95% confidence)	
= X + t * s / n^0.5 =	**1.39**
Max value =	3.70
Log xm = ym =	0.568
Number of results : N =	16
Mean y =	-0.364
Standard deviation of y : S =	0.530
T = (ym-ya) / S =	1.760
Tcrit (from table A1.3) =	2.28

Result Probably not an Outlier

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PROJECT: Newark Road, Sutton-in-Ashfield		Job No. 46924	Date 12/04/2022
SUBJECT:	Mean Value Test for Lead in Made Ground	Prepared ACR	Checked

In accordance with appendix A, CLR 7 "Assessment of risk to human health from land contamination : an overview of the development of soil guideline values and related research" produced by the Environment Agency. This method uses the geometric mean rather than the arithmetic mean which is used for other contaminants.

Sample results mg/kg		Log sample results
140.00	TP03	2.146
830.00	TP05	2.919
140.00	TP06	2.146
110.00	TP08	2.041
60.00	TP09	1.778
35.00	TP12	1.544
86.00	TP13	1.934
130.00	TP14	2.114
85.00	TP15	1.929
88.00	TP16	1.944
12.00	TP21	1.079
12.00	CP02	1.079
5.30	CP02	0.724
39.00	CP02	1.591
36.00	CP03	1.556
48.00	CP03	1.681

Calculations based on log results

Number of results : n =	16
Mean : X =	1.763
Standard deviation : s =	0.520
T value : t =	1.753
Corrected mean (95% confidence) =	
= X + t * s / n^0.5 =	1.991

Final results

Mean : X =	58 mg/kg
Corrected mean (95% confidence) =	**98 mg/kg**

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E P

SITE: Newark Road, Sutton-in-Ashfield	Job No. 46924	Date 12/04/2022
SUBJECT: Mean and Maximum Value Test: Benzo[a]pyrene in Topsoil	Prepared ACR	Checked

Results	Sample	Log x = y
2.50	TP01	0.398
0.10	TP04	-1.000
0.28	TP05	-0.553
0.57	TP07	-0.244
0.49	TP08	-0.310
0.10	TP09	-1.000
0.56	TP11	-0.252
0.18	TP13	-0.745
0.10	TP14	-1.000
0.10	TP16	-1.000
0.26	TP17	-0.585
0.10	TP18	-1.000
0.10	TP20a	-1.000
3.20	TP21	0.505
0.10	TP23	-1.000
0.10	TP24	-1.000
0.10	TP25	-1.000
0.10	TP31	-1.000
0.10	TP32	-1.000
0.10	TP35	-1.000
0.10	TP38	-1.000
0.10	TP38	-1.000
0.10	TP40	-1.000
0.10	TP41	-1.000
0.10	TP42	-1.000

Number of results : n =	25
Mean : X =	0.39
Standard deviation : s =	0.76
T value : t =	1.711
Corrected mean (95% confidence)	
= X + t * s / n^0.5 =	**0.65**
Max value =	3.20
Log xm = ym =	0.505
Number of results : N =	25
Mean y =	-0.751
Standard deviation of y : S =	0.443
T = (ym-ya) / S =	2.834
Tcrit (from table A1.3) =	2.38
Result Probably an Outlier	

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E P

SITE:	Newark Road, Sutton-in-Ashfield	Job No.	Date
		46924	12/04/2022
SUBJECT:	Mean and Maximum Value Test: Benzo[b]anthracene in Topsoil	Prepared	Checked
		ACR	

Results	Sample	Log x = y
2.00	TP01	0.301
0.10	TP04	-1.000
0.55	TP05	-0.260
0.45	TP07	-0.347
0.56	TP08	-0.252
0.10	TP09	-1.000
0.54	TP11	-0.268
0.22	TP13	-0.658
0.10	TP14	-1.000
0.10	TP16	-1.000
0.22	TP17	-0.658
0.10	TP18	-1.000
0.10	TP20a	-1.000
3.00	TP21	0.477
0.10	TP23	-1.000
0.10	TP24	-1.000
0.10	TP25	-1.000
0.10	TP31	-1.000
0.10	TP32	-1.000
0.10	TP35	-1.000
0.10	TP38	-1.000
0.10	TP38	-1.000
0.10	TP40	-1.000
0.10	TP41	-1.000
0.10	TP42	-1.000

Number of results : n =	25
Mean : X =	0.37
Standard deviation : s =	0.68
T value : t =	1.711
Corrected mean (95% confidence)	
= X + t * s / n^0.5 =	**0.60**
Max value =	3.00
Log xm = ym =	0.477
Number of results : N =	25
Mean y =	-0.747
Standard deviation of y : S =	0.437
T = (ym-ya) / S =	2.803
Tcrit (from table A1.3) =	2.38
Result Probably an Outlier	

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E P

SITE:	Newark Road, Sutton-in-Ashfield	Job No.	Date
		46924	12/04/2022
SUBJECT:	Mean and Maximum Value Test: Dibenz(a,h)Anthracene in Topsoil	Prepared	Checked
		ACR	

Results	Sample	Log x = y
0.35	TP01	-0.456
0.10	TP04	-1.000
0.10	TP05	-1.000
0.17	TP07	-0.770
0.10	TP08	-1.000
0.10	TP09	-1.000
0.19	TP11	-0.721
0.16	TP13	-0.796
0.10	TP14	-1.000
0.10	TP16	-1.000
0.10	TP17	-1.000
0.10	TP18	-1.000
0.10	TP20a	-1.000
0.49	TP21	-0.310
0.10	TP23	-1.000
0.10	TP24	-1.000
0.10	TP25	-1.000
0.10	TP31	-1.000
0.10	TP32	-1.000
0.10	TP35	-1.000
0.10	TP38	-1.000
0.10	TP38	-1.000
0.10	TP40	-1.000
0.10	TP41	-1.000
0.10	TP42	-1.000

Number of results : n =	25
Mean : X =	0.13
Standard deviation : s =	0.09
T value : t =	1.711
Corrected mean (95% confidence)	
= X + t * s / n^0.5 =	**0.17**
Max value =	0.49
Log xm = ym =	-0.310
Number of results : N =	25
Mean y =	-0.922
Standard deviation of y : S =	0.182
T = (ym-ya) / S =	3.368
Tcrit (from table A1.3) =	2.38
Result Probably an Outlier	

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E P

SITE: Newark Road, Sutton-in-Ashfield	Job No. 46924	Date 12/04/2022
SUBJECT: Mean and Maximum Value Test: Naphthalene in Topsoil	Prepared ACR	Checked

Results	Sample	Log x = y
2.30	TP01	0.362
0.10	TP04	-1.000
1.80	TP05	0.255
2.60	TP07	0.415
3.70	TP08	0.568
0.10	TP09	-1.000
2.60	TP11	0.415
2.30	TP13	0.362
0.10	TP14	-1.000
0.10	TP16	-1.000
2.70	TP17	0.431
0.10	TP18	-1.000
0.10	TP20a	-1.000
0.10	TP21	-1.000
0.10	TP23	-1.000
0.10	TP24	-1.000
0.10	TP25	-1.000
0.10	TP31	-1.000
0.10	TP32	-1.000
0.10	TP35	-1.000
0.10	TP38	-1.000
0.10	TP38	-1.000
0.10	TP40	-1.000
0.10	TP41	-1.000
0.10	TP42	-1.000

Number of results : n =	25
Mean : X =	0.79
Standard deviation : s =	1.17
T value : t =	1.711
Corrected mean (95% confidence)	
= X + t * s / n^0.5 =	**1.19**
Max value =	3.70
Log xm = ym =	0.568
Number of results : N =	25
Mean y =	-0.608
Standard deviation of y : S =	0.644
T = (ym-ya) / S =	1.826
Tcrit (from table A1.3) =	2.38

Result Probably not an Outlier