



Grid Reference for Site of Origin	470413 174483
3d. Site Owner(s)	
Site Owner #1	
Name	Reading Borough Council
Address	Bridge St, Reading, RG1 2LU
Email	t.spencer@nexusplanning.co.uk
Telephone	07856529771
3e. Developer	
Developer #1	
Company	Dept of Education / Reading Borough Council
Address	Bridge St, Reading, RG1 2LU
Contact Name	Tim Spencer - Nexus Planning
Job Title	Director
Email	t.spencer@nexusplanning.co.uk
Telephone	07856529771

6. Local Authorities / Regulators

6a. Local Authorities

Local Authority #1

Receiver Site Local Authority	Reading Borough Council
Local Authority Address	Civic Centre, Bridge Street , READING , RG1 2LU
Lead Contact Name	Julie.Williams@reading.gov.uk & Rebecca Moon
Lead Contact Role	Planning officer & Contaminated land officer
Lead Contact Address (if different from above)	
Lead Contact Email	Julie.Williams@reading.gov.uk
Lead Contact Telephone	0118 9372325
Receiver Site Agency	Wallingford



Agency Address	Red Kite House, Howbery Business Park, Benson Ln, Crowmarsh Gifford, Wallingford OX10 8BD
Contact Telephone	01491 828696
Contact Email	Mr Alex Swann - a.swann@environment- agency.gov.uk

7. Lines of Evidence	
Reference for the Materials Management Plan	Toureen MMp and zip folder - 26/7/2022
Reference for the Risk Assessment	Appendices GI Phase 2 site investigation and risk assessment REC Ltd 1 C0106158/P2/R0 The site was used as a golf range and occasional camping for Reading festival. The site consists of a soil capping layer (a gravelly sand - 1.2m thick) data indicates the soil is suitable for re-use. The capping layer overlies historically placed material pre 1974 which overlies the natural gravels.



Reference for either Remediation Strategy or Design Statement	Appendix - Remedial strategy - Ashfield solutions Group remedial strategy 130321-SO3 23/3/20222 - FS0949-ASo-XX-XX-RP-Y-0005. REC Remedial strategy 1-CO108720. The EA have been involved in pre application dialogue e.g. Dec 2021 groundwater and contaminated land specialist Craig Hampton re: a Groundwater Monitoring Strategy . Due to flood levels the levels of the site can not be raised and in order accommodate the clean cover capping layer, which is to be formed from the re-use of the existing soil capping layer, only minor excavation into the underlying made ground will occur to achieve formation levels. There will be minor fill to achieve formation level (900 cubic metres). stabilisation of the formation layer will take place for geotechnical reasons. The overlying soil capping layer will be removed to achieve formation (remaining declared volume) and re-used as capping to reach design levels minus any top soil requirement. Imported top soil is anticipated to be required to achieve final design levels in parts of the site e.g. pitch areas The Ashdown remedial strategy has been discussed with the EA & CLO. The REC remedial strategy submitted with planning has been approved by the EA and CLO and the resulting condition - condition 5 of 212061 requires verification of the agreed remediation. Both remedial strategies mention the re-use of the capping soils under DoWCoP (section 4.9 of REC RS & 4.2 of Ashfield RS).
Reference for the Verification Plan	Section 8 of Ashfield solutions Group remedial strategy 130321-SO3 23/3/20222 - FS0949-ASo-XX-XX-RP-Y-0005. and detailed box 26 of MMP.
Company	Toureen
Address	Toureen Contractors, 25 Cecil Road, Wealdstone, Middx HA3 5QY
Name	Rick Willemse



Email	Rick.Willemse@toureen.co.uk
Telephone	07501 555457
Expected production date for the Verification Report.	2023-08-31 00:00:00
7gi. Location plans	appendix 1 - drawings. Ashfield drawing 130321-SO3 01 7/3/2022 site location Landscape masterplan ARES FS0949 ALA XX ZZ.
7gii. Schematics	Cut and fill Ashfield FS0949-ASO-XX-XX-DR-X-1102 S3 PO3 Toureen email re-use summary to JP 15th and 6th August 2022 Toureen Remediation implementation plan - TCL-T1121 REv 1 15/6/2022
7giii. Desk Top Study	Appendix SI - Terraforma Phase 1 6147/2 May 2018
7giv. Mass balance calculations	Cut and fill Ashfield FS0949-ASO-XX-XX-DR-X-1102 S3 PO3
7gv. Contingency arrangements	Reading Borough Council are responsible for disposal of unsuitable made ground and excess soils.
7gvi. Tracking system	Ashfield solutions Group remedial strategy 130321-SO3 23/3/2022 - FS0949-ASo-XX-XX-RP-Y-0005 Toureen Remediation implementation plan - TCL-T1121 REv 1 15/6/2022
a) The Local Authority	Checked
b) Environment Agency	Checked
c) Natural Resources Wales	N/A
d) Other relevant environmental regulatory bodies	N/A
Reference the correspondence with the Local Authority	Rebecca Moon email to planners and Nexus planning = 5/5/2022 @ 11:44. no further queries on the remediation strategy.



Reference the correspondence with the Environment Agency	Email to EA 3/5/2022 12:32 inviting any further comments to those already provided by Craig Hampton and via planning on the re-use. No objections received. EA letter WA/2022/129576/01-LO1 25/2/2022 - acknowledging the EA has proved pre-app advice and been involved in the site. acknowledging the site is historical fill and not raising any objections to the re-use proposals in the remedial strategy. EA asks for Condition requesting the verification report confirming remedial strategy has been followed. Declarations and evidence indicate the existing capping soils are suitable for re-use on the site as capping soils to achieve final design after stabilisation at formation level has taken place.
I have reviewed the planning consent including planning conditions	Checked
Planning Reference (State either the reference or Not Applicable.)	READING BC - 212061.
a) The Local Authority	Checked
b) Environment Agency	Checked
c) Natural Resources Wales	N/A
d) Other relevant environmental regulatory bodies	N/A
Please list correspondence reviewed above	EA letter WA/2022/129576/01-LO1 25/2/2022 - no objections. request flood condition and verification report on agreed remedial strategy. Rebecca Moon email to planners and Nexus planning = 5/5/2022 @ 11:44 - no further comments on remedial strategy. committee report no objections from EA / CLO.
Planning consent not required	N/A

8. QP Declaration

8a. QP Name	James Potter
8b. QP Number	QP048



8c. I satisfy the Qualified Person requirements set out in Appendix 6 of the Definition of Waste: Development Industry Code of Practice to complete this Declaration.	Checked
8d. I have reviewed the Materials Management Plan for the above project.	Checked
8e. I have reviewed the Risk Assessment.	Checked
8f. I have reviewed the Remediation Strategy/Design Statement covering the above site.	Checked
8g. I have requested correspondence / documentation relating to the development and how that relates to the use of materials.	Checked
8h. The risk assessment assesses human health and environmental risks in relation to the proposed uses of all the materials in the MMP. The risk assessment concludes that the objectives of preventing harm to human health and pollution of the environment will be met if materials are used in the proposed manner	Checked
8i. The Local Authority, the Environment Agency / Natural Resources Wales and other relevant environmental regulatory bodies have not objected to the proposed development / land remediation on the basis that the use of any material is likely to cause harm to human health or pollution of the environment. [This confirmation should be given regardless of whether planning consent is required for the activity. Also see paragraph 3.37 of the CoP.].	Checked
8j. The EA/NRW have not objected to the reuse of materials on the grounds that it a.) constitutes a waste management operation or b.) has had a previous application for an environmental permit for waste recovery refused (on the grounds that the project represents waste disposal).	Checked
8k. The project does not involve land-spreading / agricultural re-profiling.	Checked



DoW CoP

Sustainable Reuse of Soils
A CL:AIRE Initiative

2022-08-19 07:47:22

8I. The project has not yet commenced; this is not a retrospective application of the DoW CoP.

Checked

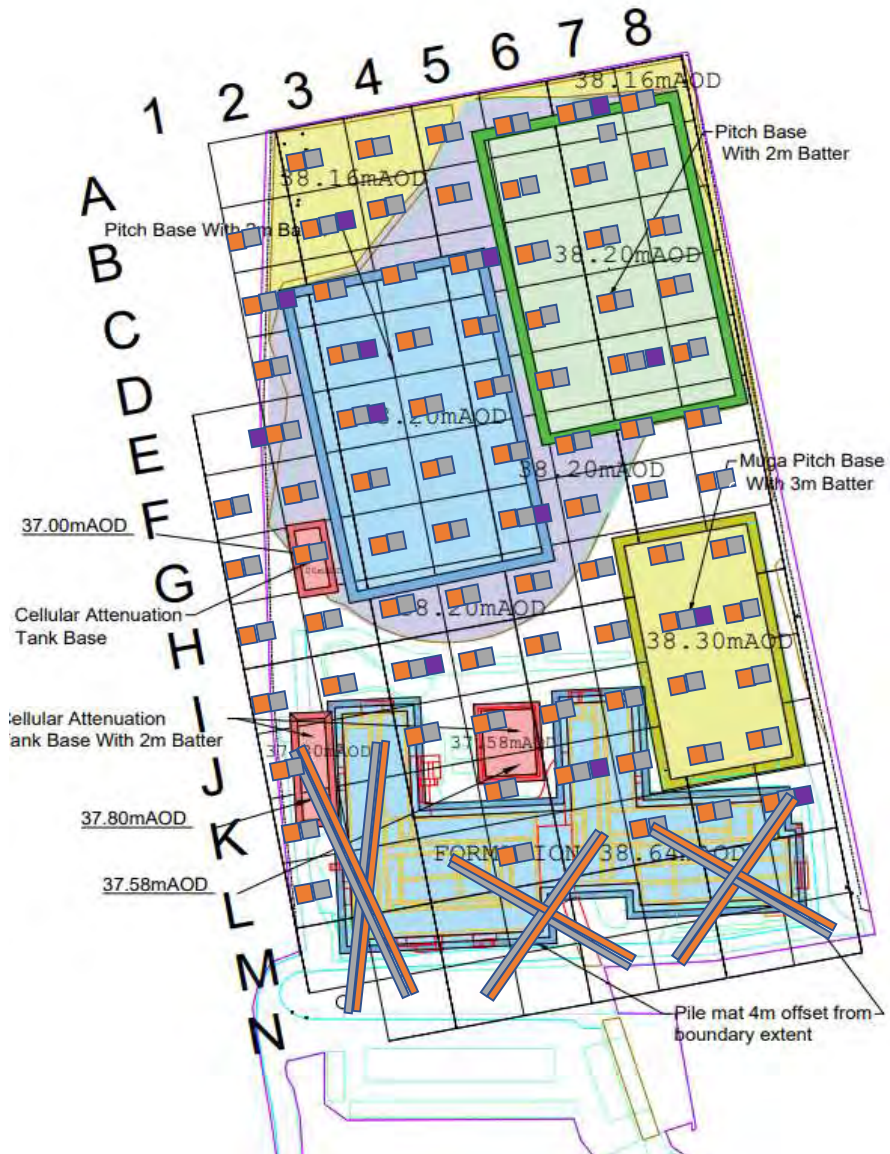


APPENDIX C:

TOUREEN CHEMICAL-GEOTECHNICAL RESULTS

Sample Key

Soil Suite
Asbestos ID & Quant
WAC



ACM RESULTS SUMMARY CAPPING VALIDATION

Elab No.	Clients Reference	Asbestos Identification	Gravimetric Analysis Total (%)	Gravimetric Analysis by ACM Type (%)	Free Fibre Analysis (%)	Total Asbestos (%)
299388	A3	No asbestos detected	n/t	n/t	n/t	n/t
299390	B2	No asbestos detected	n/t	n/t	n/t	n/t
299391	B3	No asbestos detected	n/t	n/t	n/t	n/t
299393	C2	No asbestos detected	n/t	n/t	n/t	n/t
299394	C3	No asbestos detected	n/t	n/t	n/t	n/t
299395	C3	No asbestos detected	n/t	n/t	n/t	n/t
299396	D2	No asbestos detected	n/t	n/t	n/t	n/t
299397	D3	No asbestos detected	n/t	n/t	n/t	n/t
299398	E1	No asbestos detected	n/t	n/t	n/t	n/t
299399	E2	No asbestos detected	n/t	n/t	n/t	n/t
299379	F1	No asbestos detected	n/t	n/t	n/t	n/t
299380	F2	No asbestos detected	n/t	n/t	n/t	n/t
299381	G1	No asbestos detected	n/t	n/t	n/t	n/t
299382	G2	No asbestos detected	n/t	n/t	n/t	n/t
299383	H1	No asbestos detected	n/t	n/t	n/t	n/t
299384	H2	No asbestos detected	n/t	n/t	n/t	n/t
299385	I1	No asbestos detected	n/t	n/t	n/t	n/t
299386	J1	No asbestos detected	n/t	n/t	n/t	n/t
299349	A3-1-2	No asbestos detected	n/t	n/t	n/t	n/t
299350	B3	No asbestos detected	n/t	n/t	n/t	n/t
299351	B3-1-2	No asbestos detected	n/t	n/t	n/t	n/t
299353	C3-1-2	No asbestos detected	n/t	n/t	n/t	n/t
299354	D3-1	No asbestos detected	n/t	n/t	n/t	n/t
299355	D3-1-2	No asbestos detected	n/t	n/t	n/t	n/t
299356	E3-1	No asbestos detected	n/t	n/t	n/t	n/t
299357	E3-1-2	No asbestos detected	n/t	n/t	n/t	n/t
299358	F3-1	No asbestos detected	n/t	n/t	n/t	n/t
299359	F3-1-2	No asbestos detected	n/t	n/t	n/t	n/t
299670	E4. 1	No asbestos detected	n/t	n/t	n/t	n/t
299671	E4. 1.2	No asbestos detected	n/t	n/t	n/t	n/t
299672	F4. 1	No asbestos detected	n/t	n/t	n/t	n/t
299673	F4. 1.2	No asbestos detected	n/t	n/t	n/t	n/t
299674	G4. 1	No asbestos detected	n/t	n/t	n/t	n/t
299675	G4. 1.2	No asbestos detected	n/t	n/t	n/t	n/t
299676	H4. 1	No asbestos detected	n/t	n/t	n/t	n/t
299677	H4. 1.2	No asbestos detected	n/t	n/t	n/t	n/t
299678	I4. 1	No asbestos detected	n/t	n/t	n/t	n/t
299679	I4. 1.2	No asbestos detected	n/t	n/t	n/t	n/t
299680	J4. 1	No asbestos detected	n/t	n/t	n/t	n/t
299681	J4. 1.2	No asbestos detected	n/t	n/t	n/t	n/t
299682	K4. 1	No asbestos detected	n/t	n/t	n/t	n/t
299683	K4. 1.2	No asbestos detected	n/t	n/t	n/t	n/t
299684	L4. 1	No asbestos detected	n/t	n/t	n/t	n/t
299685	L4. 1.2	No asbestos detected	n/t	n/t	n/t	n/t
299686	A5. 1	No asbestos detected	n/t	n/t	n/t	n/t
299687	A5. 1.2	No asbestos detected	n/t	n/t	n/t	n/t
299688	B5. 1	No asbestos detected	n/t	n/t	n/t	n/t
299689	B5. 1.2	No asbestos detected	n/t	n/t	n/t	n/t
299690	C5. 1	No asbestos detected	n/t	n/t	n/t	n/t
299691	C5. 1.2	No asbestos detected	n/t	n/t	n/t	n/t
299692	D5. 1	No asbestos detected	n/t	n/t	n/t	n/t
299693	D5. 1.2	No asbestos detected	n/t	n/t	n/t	n/t
299694	E5. 1	No asbestos detected	n/t	n/t	n/t	n/t
299695	E5. 1.2	No asbestos detected	n/t	n/t	n/t	n/t
299696	F5. 1	No asbestos detected	n/t	n/t	n/t	n/t
299697	F5. 1.2	No asbestos detected	n/t	n/t	n/t	n/t
299698	G5. 1	No asbestos detected	n/t	n/t	n/t	n/t
299699	G5. 1.2	No asbestos detected	n/t	n/t	n/t	n/t
299700	H5. 1	No asbestos detected	n/t	n/t	n/t	n/t
299701	H5. 1.2	No asbestos detected	n/t	n/t	n/t	n/t
299723	H6. 1	No asbestos detected	n/t	n/t	n/t	n/t
299724	H6. 1.2	No asbestos detected	n/t	n/t	n/t	n/t
299726	I6. 1	No asbestos detected	n/t	n/t	n/t	n/t
299727	I6. 1.2	No asbestos detected	n/t	n/t	n/t	n/t
299728	J6. 1	No asbestos detected	n/t	n/t	n/t	n/t
299729	J6. 1.2	No asbestos detected	n/t	n/t	n/t	n/t
299730	K6. 1	No asbestos detected	n/t	n/t	n/t	n/t
299731	K6. 1.2	No asbestos detected	n/t	n/t	n/t	n/t
299732	L6. 1	No asbestos detected	n/t	n/t	n/t	n/t
299733	L6. 1.2	No asbestos detected	n/t	n/t	n/t	n/t
299723	H6. 1	No asbestos detected	n/t	n/t	n/t	n/t
299724	H6. 1.2	No asbestos detected	n/t	n/t	n/t	n/t
299726	I6. 1	No asbestos detected	n/t	n/t	n/t	n/t
299727	I6. 1.2	No asbestos detected	n/t	n/t	n/t	n/t
299728	J6. 1	No asbestos detected	n/t	n/t	n/t	n/t
299729	J6. 1.2	No asbestos detected	n/t	n/t	n/t	n/t
299730	K6. 1	No asbestos detected	n/t	n/t	n/t	n/t
299731	K6. 1.2	No asbestos detected	n/t	n/t	n/t	n/t

Elab No.	Clients Reference	Asbestos Identification	Gravimetric Analysis Total (%)	Gravimetric Analysis by ACM Type (%)	Free Fibre Analysis (%)	Total Asbestos (%)
299732	L6. 1	No asbestos detected	n/t	n/t	n/t	n/t
299733	L6. 1.2	No asbestos detected	n/t	n/t	n/t	n/t
299702	I5. 1	No asbestos detected	n/t	n/t	n/t	n/t
299703	I5. 1.2	No asbestos detected	n/t	n/t	n/t	n/t
299704	J5. 1	No asbestos detected	n/t	n/t	n/t	n/t
299705	J5. 1.2	No asbestos detected	n/t	n/t	n/t	n/t
299706	K5. 1	No asbestos detected	n/t	n/t	n/t	n/t
299707	K5. 1.2	No asbestos detected	n/t	n/t	n/t	n/t
299708	L5. 1	No asbestos detected	n/t	n/t	n/t	n/t
299709	L5. 1.2	No asbestos detected	n/t	n/t	n/t	n/t
299963	A7.1	No asbestos detected	n/t	n/t	n/t	n/t
299964	A7.1.2	No asbestos detected	n/t	n/t	n/t	n/t
299965	B7.1	No asbestos detected	n/t	n/t	n/t	n/t
299966	B7.1.2	No asbestos detected	n/t	n/t	n/t	n/t
299967	C7.1	No asbestos detected	n/t	n/t	n/t	n/t
299968	C7.1.2	No asbestos detected	n/t	n/t	n/t	n/t
299969	D7.1	No asbestos detected	n/t	n/t	n/t	n/t
299970	D7.1.2	No asbestos detected	n/t	n/t	n/t	n/t
299971	E7.1	No asbestos detected	n/t	n/t	n/t	n/t
299972	E7.1.2	No asbestos detected	n/t	n/t	n/t	n/t
299973	F7.1	No asbestos detected	n/t	n/t	n/t	n/t
299974	F7.1.2	No asbestos detected	n/t	n/t	n/t	n/t
299975	G7.1	No asbestos detected	n/t	n/t	n/t	n/t
299976	G7.1.2	No asbestos detected	n/t	n/t	n/t	n/t
299977	H7.1	No asbestos detected	n/t	n/t	n/t	n/t
299978	H7.1.2	No asbestos detected	n/t	n/t	n/t	n/t
299979	I7.1	No asbestos detected	n/t	n/t	n/t	n/t
299980	I7.1.2	No asbestos detected	n/t	n/t	n/t	n/t
299981	J7.1	No asbestos detected	n/t	n/t	n/t	n/t
299982	J7.1.2	No asbestos detected	n/t	n/t	n/t	n/t
299983	K7.1	No asbestos detected	n/t	n/t	n/t	n/t
299984	K7.1.2	No asbestos detected	n/t	n/t	n/t	n/t
299985	L7.1	No asbestos detected	n/t	n/t	n/t	n/t
299986	L7.1.2	No asbestos detected	n/t	n/t	n/t	n/t
299654	G3. 1	No asbestos detected	n/t	n/t	n/t	n/t
299655	G3. 1.2	No asbestos detected	n/t	n/t	n/t	n/t
299656	H3. 1	No asbestos detected	n/t	n/t	n/t	n/t
299657	H3. 1.2	No asbestos detected	n/t	n/t	n/t	n/t
299658	I3. 1	No asbestos detected	n/t	n/t	n/t	n/t
299659	I3. 1.2	No asbestos detected	n/t	n/t	n/t	n/t
299660	J3. 1	No asbestos detected	n/t	n/t	n/t	n/t
299661	J3. 1.2	No asbestos detected	n/t	n/t	n/t	n/t
299662	A4. 1	No asbestos detected	n/t	n/t	n/t	n/t
299663	A4. 1.2	No asbestos detected	n/t	n/t	n/t	n/t
299664	B4. 1	No asbestos detected	n/t	n/t	n/t	n/t
299665	B4. 1.2	No asbestos detected	n/t	n/t	n/t	n/t
299666	C4. 1	No asbestos detected	n/t	n/t	n/t	n/t
299667	C4. 1.2	No asbestos detected	n/t	n/t	n/t	n/t
299668	D4. 1	No asbestos detected	n/t	n/t	n/t	n/t
299669	D4. 1.2	No asbestos detected	n/t	n/t	n/t	n/t
299710	A6. 1	No asbestos detected	n/t	n/t	n/t	n/t
299711	A6. 1.2	No asbestos detected	n/t	n/t	n/t	n/t
299712	B6. 1	No asbestos detected	n/t	n/t	n/t	n/t
299713	C6. 1	No asbestos detected	n/t	n/t	n/t	n/t
299714	C6. 1.2	No asbestos detected	n/t	n/t	n/t	n/t
299715	D6. 1	No asbestos detected	n/t	n/t	n/t	n/t
299716	D6. 1.2	No asbestos detected	n/t	n/t	n/t	n/t
299717	E6. 1	No asbestos detected	n/t	n/t	n/t	n/t
299718	E6. 1.2	No asbestos detected	n/t	n/t	n/t	n/t
299719	F6. 1	No asbestos detected	n/t	n/t	n/t	n/t
299720	F6. 1.2	No asbestos detected	n/t	n/t	n/t	n/t
299721	G6. 1	No asbestos detected	n/t	n/t	n/t	n/t
299722	G6. 1.2	No asbestos detected	n/t	n/t	n/t	n/t
302319	A8.1	No asbestos detected	n/t	n/t	n/t	n/t
302320	A8.1.2	No asbestos detected	n/t	n/t	n/t	n/t
302321	B8.1	No asbestos detected	n/t	n/t	n/t	n/t
302322	B8.1.2	No asbestos detected	n/t	n/t	n/t	n/t
302323	C8.1	No asbestos detected	n/t	n/t	n/t	n/t
302324	C8.1.2	No asbestos detected	n/t	n/t	n/t	n/t
302325	D8.1	No asbestos detected	n/t	n/t	n/t	n/t
302326	D8.1.2	No asbestos detected	n/t	n/t	n/t	n/t
302327	E8.1	No asbestos detected	n/t	n/t	n/t	n/t
302328	E8.1.2	No asbestos detected	n/t	n/t	n/t	n/t
302329	F8.1	No asbestos detected	n/t	n/t	n/t	n/t
302330	F8.1.2	No asbestos detected	n/t	n/t	n/t	n/t
302331	G8.1	No asbestos detected	n/t	n/t	n/t	n/t
302332	G8.1.2	No asbestos detected	n/t	n/t	n/t	n/t
302333	H8.1	No asbestos detected	n/t	n/t	n/t	n/t

Elab No.	Clients Reference	Asbestos Identification	Gravimetric Analysis Total (%)	Gravimetric Analysis by ACM Type (%)	Free Fibre Analysis (%)	Total Asbestos (%)
302334	H8.1.2	No asbestos detected	n/t	n/t	n/t	n/t
302335	I8.1	No asbestos detected	n/t	n/t	n/t	n/t
302336	I8.1.2	No asbestos detected	n/t	n/t	n/t	n/t
302337	J8.1	No asbestos detected	n/t	n/t	n/t	n/t
302338	J8.1.2	No asbestos detected	n/t	n/t	n/t	n/t
302339	K8.1	No asbestos detected	n/t	n/t	n/t	n/t
302340	K8.1.2	No asbestos detected	n/t	n/t	n/t	n/t
302341	L8.1	No asbestos detected	n/t	n/t	n/t	n/t
302342	L8.1.2	No asbestos detected	n/t	n/t	n/t	n/t
302343	LN12.1	No asbestos detected	n/t	n/t	n/t	n/t
302344	JN12.1.2	No asbestos detected	n/t	n/t	n/t	n/t
302345	LN35.1	No asbestos detected	n/t	n/t	n/t	n/t
302346	LN35.1.2	No asbestos detected	n/t	n/t	n/t	n/t
302347	LN68.1	No asbestos detected	n/t	n/t	n/t	n/t
302348	LN68.1.2	No asbestos detected	n/t	n/t	n/t	n/t
302313	J1.1	No asbestos detected	n/t	n/t	n/t	n/t
302314	J1.1.2	No asbestos detected	n/t	n/t	n/t	n/t
302315	K1.1	No asbestos detected	n/t	n/t	n/t	n/t
302316	K1.1.2	No asbestos detected	n/t	n/t	n/t	n/t
302317	L1.1	No asbestos detected	n/t	n/t	n/t	n/t
302318	L1.1.2	No asbestos detected	n/t	n/t	n/t	n/t

Elab Ref:		Landfill Waste Acceptance Criteria Limits*																
Sample ID:		Inert Waste Landfill	Stable Non-reactive Hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill	299398	299397	299393	299392	299698	299690	299706	299971	299963	299979	299658	299356	302341	302345
Sample Date:					20/10/2022	20/10/2022	20/10/2022	20/10/2022	25/10/2022	25/10/2022	25/10/2022	26/10/2022	26/10/2022	26/10/2022	25/10/2022	21/10/2022	17/11/2022	17/11/2022
Sample Location:					E1 (E2)	D3	C2	B3	G5. 1	C5. 1	K5. 1	E7.1	A7.1	I7.1	I3. 1	E3-1	L8.1	LN35-1
Site:																		
Determinand	Units																	
Total Organic Carbon	%	3	5	6	2.50	1.50	1.40	2.40	1.90	2.20	0.65	1.90	1.20	1.10	1.00	1.90	1.50	1.60
Loss on Ignition	%	--	--	10	7.1	5.3	5.5	7.5	6.3	< 0.01	4.2	6.5	5.8	4.9	5.3	8.1	5.3	5.3
Total BTEX	mg/kg	6	--	--	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Total PCBs (7 congeners)	mg/kg	1	--	--	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
TPH Total WAC (EH_CU_1D_Total)	mg/kg	500	--	--	< 5	6	5	7	9	7	5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Total (of 17) PAHs	mg/kg	100	--	--	4.0	3.0	< 2	2.0	4.0	< 2	< 2	< 2	< 2	< 2	< 2	4.0	31.0	2.0
pH		--	>6	--	7.2	7.2	6.8	6.7	7.9	8.0	8.0	8.1	8.3	8.1	8.5	7.8	8.0	8.0
Acid Neutralisation Capacity	mol/kg	--	To evaluate	To evaluate	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Eluate Analysis	10:1	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg			10:1	10:1	10:1	10:1	10:1	10:1	10:1	10:1	10:1	10:1	10:1	10:1	10:1	10:1
	mg/l				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Arsenic	< 0.005	0.5	2	25	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Barium	< 0.005	20	100	300	0.09	0.05	< 0.05	< 0.05	0.07	< 0.05	< 0.05	< 0.05	0.06	< 0.05	< 0.05	< 0.05	0.09	0.09
Cadmium	< 0.001	0.04	1	5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chromium	< 0.005	0.5	10	70	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Copper	< 0.005	2	50	100	0.05	< 0.05	< 0.05	0.07	< 0.05	< 0.05	< 0.05	0.06	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Mercury	< 0.005	0.01	0.2	2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Molybdenum	< 0.005	0.5	10	30	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nickel	< 0.001	0.4	10	40	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Lead	< 0.001	0.5	10	50	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Antimony	< 0.005	0.06	0.7	5	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Selenium	< 0.005	0.1	0.5	7	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Zinc	0.011	4	50	200	< 0.05	< 0.05	0.09	0.17	< 0.05	< 0.05	0.11	0.11	0.06	< 0.05	< 0.05	< 0.05	0.07	0.09
Chloride	< 5	800	15000	25000	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Fluoride	< 5	10	150	500	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Sulphate	< 1	1000	20000	50000	17.50	< 10.0	13.70	17.00	13.80	< 10.0	< 10.0	13.80	< 10.0	36.20	11.50	12.60	48.90	26.10
Total Dissolved Solids	35	4000	60000	100000	735.00	438.00	183.00	285.00	531.00	310.00	350.00	583.00	422.00	525.00	498.00	318.00	807.00	726.00
Phenol Index	< 0.01	1	-	-	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dissolved Organic Carbon	7.820	500	800	1000	88.00	71.00	81.00	106.00	83.00	93.00	78.00	82.00	72.00	63.00	77.00	150.00	106.00	115.00

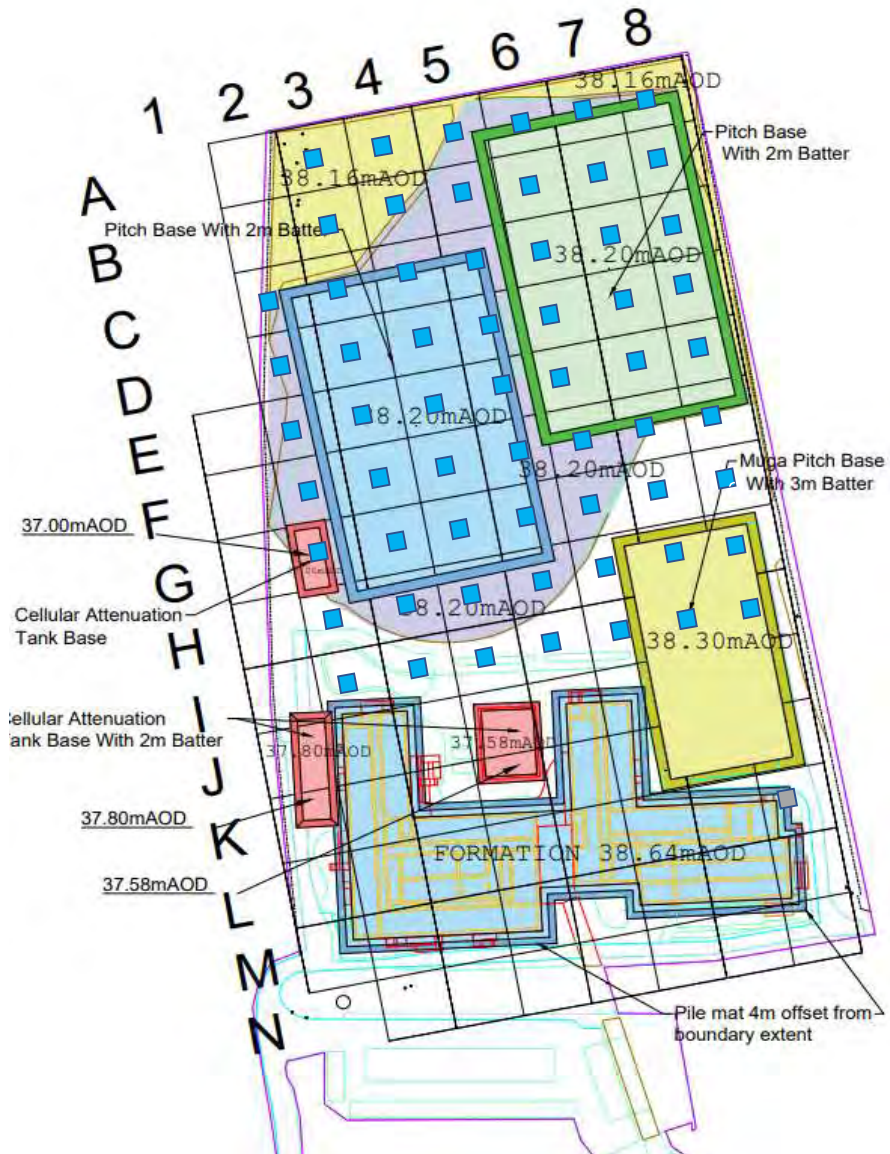
No./Ref	Description	Date of Sample	Date Received	Test Type	Results	Analytical report No.
IC1	Imported Crushed 6F5	20/11/2022	20/11/2022	Constituent Parts	Compliant <1% ClassX	EJ1552-L531
IC2	Imported Crushed 6F5	20/11/2022	20/11/2022	Constituent Parts	Compliant <1% ClassX	EJ1552-L5318
SW1	Site Won Crushed 6F5	20/11/2022	20/11/2022	Constituent Parts	Compliant <1% ClassX	EJ1552-L5319
SW2	Site Won Crushed 6F5	20/11/2022	20/11/2022	Constituent Parts	Compliant <1% ClassX	EJ1552-L5320
IC1	Imported Crushed 6F5	16/11/2022	17/11/2022	PSD	Compliant with 6F5 Grading	EJ1552-L5317
SW1	Site Won Crushed 6F5	16/11/2022	17/11/2022	PSD	Compliant with 6F5 Grading	EJ1552-L5319

No./Ref	Description	Date	Location		Test Type	CBR (%)	Deformation (mm)	Report Ref	Notes
			Grid	Layer					
ES4422-1	CBR Validation	03/11/2022	Car Park	Final	CBR	18	1.58	ES4422-1	CBR validation test of car park
ES4422-2	CBR Validation	03/11/2022	Car Park	Final	CBR	19	1.55	ES4422-2	CBR validation test of car park
ES4422-3	CBR Validation	03/11/2022	Car Park	Final	CBR	39	1.68	ES4422-3	CBR validation test of car park
ES4422-4	CBR Validation	03/11/2022	Car Park	Final	CBR	65	1.56	ES4422-4	CBR validation test of car park
ES4428-1	CBR Validation	11/11/2022	Pile Mat	Final	CBR	n/a	3.96	ES4428-1	CBR validation test of pile mat
ES4431-1	CBR Validation	11/11/2022	Pile Mat	Final	CBR	n/a	4.19	ES4431-1	CBR validation test of pile mat
ES4431-2	CBR Validation	11/11/2022	Pile Mat	Final	CBR	n/a	6.31	ES4431-2	CBR validation test of pile mat
ES4431-3	CBR Validation	11/11/2022	Pile Mat	Final	CBR	n/a	3.05	ES4431-3	CBR validation test of pile mat
ES4431-4	CBR Validation	11/11/2022	Pile Mat	Final	CBR	n/a	5.22	ES4431-4	CBR validation test of pile mat
ES4431-5	CBR Validation	11/11/2022	Pile Mat	Final	CBR	n/a	3.75	ES4431-5	CBR validation test of pile mat
ES4431-6	CBR Validation	11/11/2022	Pile Mat	Final	CBR	n/a	4.32	ES4431-6	CBR validation test of pile mat
ES4438-1	CBR Validation	15/11/2022	Pile Mat	Final	CBR	n/a	2.17	ES4438-1	CBR validation test of pile mat
ES4438-2	CBR Validation	15/11/2022	Pile Mat	Final	CBR	n/a	3.58	ES4438-2	CBR validation test of pile mat
ES4438-3	CBR Validation	15/11/2022	Pile Mat	Final	CBR	n/a	4.74	ES4438-3	CBR validation test of pile mat
ES4469-1	CBR Validation	02/12/2022	Car Park and Road	Final	CBR	36	1.52	ES4469-1	CBR validation test of car park
ES4469-2	CBR Validation	02/12/2022	Car Park and Road	Final	CBR	>90	1.51	ES4469-2	CBR validation test of car park
ES4469-3	CBR Validation	02/12/2022	Car Park and Road	Final	CBR	>90	1.53	ES4469-3	CBR validation test of car park
ES4469-4	CBR Validation	02/12/2022	Car Park and Road	Final	CBR	74	1.52	ES4469-4	CBR validation test of car park

Description	Location		Test Type	CBR (%)
	Grid	Layer		
CBR	C2	Final	Mexe Cone Penetrometer	3.2
CBR	D2	Final	Mexe Cone Penetrometer	4.3
CBR	E2	Final	Mexe Cone Penetrometer	3.3
CBR	F2	Final	Mexe Cone Penetrometer	3.1
CBR	G2	Final	Mexe Cone Penetrometer	3.6
CBR	H2	Final	Mexe Cone Penetrometer	4.3
CBR	I2	Final	Mexe Cone Penetrometer	4.1
CBR	A3	Final	Mexe Cone Penetrometer	4.3
CBR	B3	Final	Mexe Cone Penetrometer	3.3
CBR	C3	Final	Mexe Cone Penetrometer	3.3
CBR	D3	Final	Mexe Cone Penetrometer	3.1
CBR	E3	Final	Mexe Cone Penetrometer	3.5
CBR	F3	Final	Mexe Cone Penetrometer	3.8
CBR	F3	Final	Mexe Cone Penetrometer	4.0
CBR	G3	Final	Mexe Cone Penetrometer	3.1
CBR	H3	Final	Mexe Cone Penetrometer	3.0
CBR	I3	Final	Mexe Cone Penetrometer	3.2
CBR	A4	Final	Mexe Cone Penetrometer	3.9
CBR	B4	Final	Mexe Cone Penetrometer	4.1
CBR	C4	Final	Mexe Cone Penetrometer	4.4
CBR	D4	Final	Mexe Cone Penetrometer	4.0
CBR	E4	Final	Mexe Cone Penetrometer	3.1
CBR	F4	Final	Mexe Cone Penetrometer	3.4
CBR	G4	Final	Mexe Cone Penetrometer	3.3
CBR	H4	Final	Mexe Cone Penetrometer	4.0
CBR	I4	Final	Mexe Cone Penetrometer	4.6
CBR	A5	Final	Mexe Cone Penetrometer	5.2
CBR	B5	Final	Mexe Cone Penetrometer	3.4
CBR	C5	Final	Mexe Cone Penetrometer	3.7
CBR	D5	Final	Mexe Cone Penetrometer	3.6
CBR	E5	Final	Mexe Cone Penetrometer	3.7
CBR	F5	Final	Mexe Cone Penetrometer	4.2
CBR	G5	Final	Mexe Cone Penetrometer	3.4
CBR	H5	Final	Mexe Cone Penetrometer	3.0
CBR	I5	Final	Mexe Cone Penetrometer	3.3
CBR	A6	Final	Mexe Cone Penetrometer	3.4
CBR	B6	Final	Mexe Cone Penetrometer	3.4
CBR	C6	Final	Mexe Cone Penetrometer	3.8
CBR	D6	Final	Mexe Cone Penetrometer	4.0
CBR	E6	Final	Mexe Cone Penetrometer	4.1
CBR	F6	Final	Mexe Cone Penetrometer	3.0
CBR	G6	Final	Mexe Cone Penetrometer	3.2
CBR	H6	Final	Mexe Cone Penetrometer	3.1
CBR	I6	Final	Mexe Cone Penetrometer	4.5
CBR	A7	Final	Mexe Cone Penetrometer	3.9
CBR	B7	Final	Mexe Cone Penetrometer	4.1
CBR	C7	Final	Mexe Cone Penetrometer	4.2
CBR	D7	Final	Mexe Cone Penetrometer	3.4
CBR	E7	Final	Mexe Cone Penetrometer	3.6
CBR	F7	Final	Mexe Cone Penetrometer	3.9
CBR	G7	Final	Mexe Cone Penetrometer	3.5
CBR	H7	Final	Mexe Cone Penetrometer	3.7
CBR	I7	Final	Mexe Cone Penetrometer	3.3
CBR	A8	Final	Mexe Cone Penetrometer	3.2
CBR	B8	Final	Mexe Cone Penetrometer	3.6
CBR	C8	Final	Mexe Cone Penetrometer	3.5
CBR	D8	Final	Mexe Cone Penetrometer	4.8
CBR	E8	Final	Mexe Cone Penetrometer	3.2
CBR	F8	Final	Mexe Cone Penetrometer	3.7
CBR	G8	Final	Mexe Cone Penetrometer	3.3
CBR	H8	Final	Mexe Cone Penetrometer	4.1
CBR	I8	Final	Mexe Cone Penetrometer	3.4

Sample Key

Approximate Location of
Mexi cone penetrometer test





2683



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THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 22-44232

Issue: 2a. Replaces Analytical Report number 22-44232; issue no.1

Date of Issue: 07/11/2022

Contact: David Skinner

Customer Details: Toureen Contractors Ltd
25 Cecil Road
Harrow
Middlesex HA3 5QY

Quotation No: Q22-03340

Order No: TCL1121

Customer Reference: TCL1121

Date Received: 25/10/2022

Date Approved: 07/11/2022

Details: River Academy

Approved by:

Mike Varley, General Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

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Sample Summary

Report No.: 22-44232, issue number 2a

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
299349	A3-1-2	21/10/2022	26/10/2022		
299350	B3	21/10/2022	26/10/2022	Silty loam	
299351	B3-1-2	21/10/2022	26/10/2022		
299353	C3-1-2	21/10/2022	26/10/2022		
299354	D3-1	21/10/2022	26/10/2022	Silty loam	
299355	D3-1-2	21/10/2022	26/10/2022		
299356	E3-1	21/10/2022	26/10/2022	Silty loam	
299357	E3-1-2	21/10/2022	26/10/2022		
299358	F3-1	21/10/2022	26/10/2022	Silty loam	
299359	F3-1-2	21/10/2022	26/10/2022		



Results Summary

Report No.: 22-44232, issue number 2a

ELAB Reference	299350	299354	299356	299358
Customer Reference				
Sample ID				
Sample Type	SOIL	SOIL	SOIL	SOIL
Sample Location	B3	D3-1	E3-1	F3-1
Sample Depth (m)				
Sampling Date	21/10/2022	21/10/2022	21/10/2022	21/10/2022

Determinand	Codes	Units	LOD				
Soil sample preparation parameters							
Moisture Content	N	%	0.1	12.4	7.7	15.0	9.1
Material removed	N	%	0.1	18.9	20.1	18.9	20.8
Description of Inert material removed	N		0	Stones	Stones	Stones	Stones
Metals							
Arsenic	M	mg/kg	0.5	36.2	32.2	23.8	21.9
Cadmium	M	mg/kg	0.2	0.6	0.7	0.5	0.6
Chromium	M	mg/kg	1	47.0	42.2	30.6	33.5
Copper	M	mg/kg	4	54.0	79.8	47.7	72.1
Lead	M	mg/kg	1	160	210	116	184
Mercury	M	mg/kg	0.1	0.3	0.7	0.3	0.6
Nickel	M	mg/kg	1	33.3	34.2	26.4	30.7
Selenium	M	mg/kg	1	< 1.0	1.4	< 1.0	< 1.0
Vanadium	M	mg/kg	0.5	61.4	57.7	44.9	44.2
Zinc	M	mg/kg	4.5	322	349	207	275
Inorganics							
Total Cyanide	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
Miscellaneous							
Acid Neutralisation Capacity	N	mol/kg	0.1	n/t	n/t	< 0.1	n/t
Loss on Ignition	M	%	0.01	n/t	n/t	8.09	n/t
pH	M	pH units	0.1	7.8	7.9	7.8	7.7
Total Organic Carbon	N	%	0.01	n/t	n/t	1.9	n/t



Results Summary

Report No.: 22-44232, issue number 2a

ELAB Reference	299350	299354	299356	299358
Customer Reference				
Sample ID				
Sample Type	SOIL	SOIL	SOIL	SOIL
Sample Location	B3	D3-1	E3-1	F3-1
Sample Depth (m)				
Sampling Date	21/10/2022	21/10/2022	21/10/2022	21/10/2022

Determinand	Codes	Units	LOD				
Phenols							
Phenol	M	mg/kg	1	< 1	< 1	< 1	< 1
M,P-Cresol	N	mg/kg	1	< 1	< 1	< 1	< 1
O-Cresol	N	mg/kg	1	< 1	< 1	< 1	< 1
3,4-Dimethylphenol	N	mg/kg	1	< 1	< 1	< 1	< 1
2,3-Dimethylphenol	M	mg/kg	1	< 1	< 1	< 1	< 1
2,3,5-trimethylphenol	M	mg/kg	1	< 1	< 1	< 1	< 1
Total Monohydric Phenols	N	mg/kg	5	< 5	< 5	< 5	< 5
Polyaromatic hydrocarbons							
Naphthalene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t
Acenaphthylene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t
Acenaphthene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t
Fluorene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t
Phenanthrene	M	mg/kg	0.1	n/t	n/t	0.1	n/t
Anthracene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t
Fluoranthene	M	mg/kg	0.1	n/t	n/t	0.5	n/t
Pyrene	M	mg/kg	0.1	n/t	n/t	0.4	n/t
Benzo(a)anthracene	M	mg/kg	0.1	n/t	n/t	0.2	n/t
Chrysene	M	mg/kg	0.1	n/t	n/t	0.3	n/t
Benzo(b)fluoranthene	M	mg/kg	0.1	n/t	n/t	0.4	n/t
Benzo(k)fluoranthene	M	mg/kg	0.1	n/t	n/t	0.4	n/t
Benzo(a)pyrene	M	mg/kg	0.1	n/t	n/t	0.4	n/t
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	n/t	n/t	0.4	n/t
Dibenzo(a,h)anthracene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t
Benzo[g,h,i]perylene	M	mg/kg	0.1	n/t	n/t	0.4	n/t
Total PAH(16)	M	mg/kg	0.4	n/t	n/t	3.6	n/t
Total (of 17) PAHs	N	mg/kg	2	n/t	n/t	4	n/t



Results Summary

Report No.: 22-44232, issue number 2a

ELAB Reference	299350	299354	299356	299358
Customer Reference				
Sample ID				
Sample Type	SOIL	SOIL	SOIL	SOIL
Sample Location	B3	D3-1	E3-1	F3-1
Sample Depth (m)				
Sampling Date	21/10/2022	21/10/2022	21/10/2022	21/10/2022

Determinand	Codes	Units	LOD				
BTEX							
Benzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0
Toluene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0
Ethylbenzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0
Xylenes	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0
MTBE	U	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0
Total BTEX	N	mg/kg	0.01	n/t	n/t	< 0.01	n/t
TPH CWG							
>C5-C6 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C6-C8 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aliphatic (HS_1D_MS+EH_2D_AL)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
>C10-C12 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
>C12-C16 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
>C16-C21 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
>C21-C35 Aliphatic (EH_2D_AL)	M	mg/kg	1	4.2	< 1.0	< 1.0	1.2
>C35-C40 Aliphatic (EH_2D_AL)	M	mg/kg	1	1.5	< 1.0	< 1.0	< 1.0
Total aliphatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AL)	N	mg/kg	1	5.9	< 1.0	< 1.0	1.8
>C5-C7 Aromatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C7-C8 Aromatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aromatic (HS_1D_MS+EH_2D_AR)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
>C10-C12 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
>C12-C16 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
>C16-C21 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
>C21-C35 Aromatic (EH_2D_AR)	M	mg/kg	1	3.7	< 1.0	< 1.0	9.2
>C35-C40 Aromatic (EH_2D_AR)	M	mg/kg	1	1.2	< 1.0	< 1.0	2.8
Total aromatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AR)	N	mg/kg	1	5.8	< 1.0	< 1.0	13.7
Total petroleum hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_Total)	N	mg/kg	1	11.7	< 1.0	< 1.0	15.5
Total Petroleum Hydrocarbons							
Mineral Oil w Florisil (EH_CU_1D_Total)	N	mg/kg	5	n/t	n/t	< 5	n/t
PCB (ICES 7 congeners)							
Total PCBs (7 congeners)	M	mg/kg	0.03	n/t	n/t	< 0.03	n/t

Tests marked N are not UKAS accredited.

The Environmental Laboratory Ltd. Reg. No. 3882193

Results Summary

Report No.: 22-44232, issue number 2a

ELAB Reference				299350	299354	299356	299358
Customer Reference							
Sample ID							
Sample Type				SOIL	SOIL	SOIL	SOIL
Sample Location				B3	D3-1	E3-1	F3-1
Sample Depth (m)							
Sampling Date				21/10/2022	21/10/2022	21/10/2022	21/10/2022
Determinand	Codes	Units	LOD				
Organics							
Coal tar	N	%	0.01	< 0.01	< 0.01	< 0.01	< 0.01
SVOC							
Phenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bis(2-chloroethyl)ether	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Chlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,3-Dichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,4-Dichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzyl Alcohol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-Dichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Methylphenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bis(2-chloroisopropyl)ether	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
3 and 4-methylphenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
N-Nitrosodi-n-propylamine	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachloroethane	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Nitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Isophorone	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Nitrophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-Dimethylphenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bis(2-chloroethoxy)methane	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-Dichlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,3,5-Trichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Naphthalene	N	mg/kg	0.01	0.02	0.02	0.01	0.04
3-Chloroaniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachloro-1,3-butadiene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
4-Chloro-3-methylphenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Methylnaphthalene	N	mg/kg	0.01	< 0.01	0.01	< 0.01	0.02
1-Methylnaphthalene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	0.01
Hexachlorocyclopentadiene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4,6-Trichlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4,5-Trichlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
1-Chloronaphthalene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Nitroaniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,4-Dinitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dimethyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
1-3-dinitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-6-dinitrotoluene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthylene	N	mg/kg	0.01	0.03	0.03	0.03	0.08
1,2-Dinitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
3-Nitroaniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	0.02
4-nitrophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenzofuran	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	0.01
2,3,5,6-Tetrachlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,3,4,6-Tetrachlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Diethyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
1-chloro-4-phenoxybenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	0.01
4-Nitroaniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dinitro-o-cresol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Diphenylamine	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Azobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
1-bromo-4-phenoxybenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01

Tests marked N are not UKAS accredited.



Results Summary

2683

Report No.: 22-44232, issue number 2a

ELAB Reference				299350	299354	299356	299358
Customer Reference							
Sample ID							
Sample Type				SOIL	SOIL	SOIL	SOIL
Sample Location				B3	D3-1	E3-1	F3-1
Sample Depth (m)							
Sampling Date				21/10/2022	21/10/2022	21/10/2022	21/10/2022
Determinand	Codes	Units	LOD				
Organics							
Hexachlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Pentachlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	N	mg/kg	0.01	0.04	0.09	0.05	0.20
Anthracene	N	mg/kg	0.01	0.03	0.04	0.08	0.11
Carbazole	N	mg/kg	0.01	< 0.01	< 0.01	0.01	0.02
Dibutyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	N	mg/kg	0.01	0.25	0.42	0.26	0.95
Pyrene	N	mg/kg	0.01	0.25	0.40	0.26	0.95
Butyl benzyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bis-2-ethylhexyladipate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Diisooctyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)anthracene	N	mg/kg	0.01	0.17	0.30	0.17	0.63
Chrysene	N	mg/kg	0.01	0.18	0.28	0.20	0.62
Bis(2-ethylhexyl)phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	N	mg/kg	0.01	0.25	0.28	0.21	0.77
Benzo(k)fluoranthene	N	mg/kg	0.01	0.18	0.31	0.20	0.62
Benzo(a)pyrene	N	mg/kg	0.01	0.23	0.32	0.25	0.82
Indeno(1,2,3-cd)pyrene	N	mg/kg	0.01	0.20	0.27	0.21	0.69
Dibenzo(a,h)anthracene	N	mg/kg	0.01	0.08	0.11	0.08	0.27
Benzo[g,h,i]perylene	N	mg/kg	0.01	0.24	0.32	0.25	0.82

Results Summary

Report No.: 22-44232, issue number 2a

WAC Analysis

Elab Ref:	299356					Landfill Waste Acceptance Criteria Limits*		
Sample Date:	21/10/2022					Inert Waste Landfill	Stable Non-reactive Hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:	E3-1							
Depth (m)								
Site:	River Academy							
Determinand		Code	Units					
Total Organic Carbon		N	%		1.90	3	5	6
Loss on Ignition		M	%		8.1	--	--	10
Total BTEX		M	mg/kg		< 0.01	6	--	--
Total PCBs (7 congeners)		M	mg/kg		< 0.03	1	--	--
TPH Total WAC (EH_CU_1D_Total)		N	mg/kg		< 5	500	--	--
Total (of 17) PAHs		N	mg/kg		4.0	100	--	--
pH		M			7.8	--	>6	--
Acid Neutralisation Capacity		N	mol/kg		< 0.1	--	To evaluate	To evaluate

Eluate Analysis

			10:1	10:1	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg		
			mg/l	mg/kg			
Arsenic		N	< 0.005	< 0.05	0.5	2	25
Barium		N	< 0.005	< 0.05	20	100	300
Cadmium		N	< 0.001	< 0.01	0.04	1	5
Chromium		N	< 0.005	< 0.05	0.5	10	70
Copper		N	< 0.005	< 0.05	2	50	100
Mercury		N	< 0.005	< 0.01	0.01	0.2	2
Molybdenum		N	< 0.005	< 0.05	0.5	10	30
Nickel		N	< 0.001	< 0.05	0.4	10	40
Lead		N	< 0.001	< 0.05	0.5	10	50
Antimony		N	< 0.005	< 0.05	0.06	0.7	5
Selenium		N	< 0.005	< 0.05	0.1	0.5	7
Zinc		N	< 0.005	< 0.05	4	50	200
Chloride		N	< 5	< 50	800	15000	25000
Fluoride		N	< 5	< 10	10	150	500
Sulphate		N	1	12.60	1000	20000	50000
Total Dissolved Solids		N	32	318.00	4000	60000	100000
Phenol Index		N	< 0.01	< 0.10	1	-	-
Dissolved Organic Carbon		N	15.000	150.00	500	800	1000

Leach Test Information

pH		N	7.7				
Conductivity (uS/cm)		N	< 50				
Dry mass of test portion (g)			101.000				
Dry Matter (%)			85				
Moisture (%)			17				
Eluent Volume (ml)			980				

Results are expressed on a dry weight basis, after correction for moisture content where applicable

* Stated limits are for guidance only, and not for conformity assessment.



Unit A2, Windmill Road, Ponswood Industrial Estate, St Leonards on Sea, East Sussex, TN38 9BY

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Results Summary

Report No.: 22-44232, issue number 2a

Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #) in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos Identification	Gravimetric Analysis Total (%)	Gravimetric Analysis by ACM Type (%)	Free Fibre Analysis (%)	Total Asbestos (%)
299349		A3-1-2	Brown Sandy Soil, Stones, Clinker, Organics	No asbestos detected	n/t	n/t	n/t	n/t
299350		B3	Brown Sandy Soil, Stones, Clinker, Organics	No asbestos detected	n/t	n/t	n/t	n/t
299351		B3-1-2	Brown Sandy Soil, Stones, Clinker, Organics	No asbestos detected	n/t	n/t	n/t	n/t
299353		C3-1-2	Brown Sandy Soil, Stones, Clinker, Organics, Brick, Glass	No asbestos detected	n/t	n/t	n/t	n/t
299354		D3-1	Brown Sandy Soil, Stones, Clinker, Organics	No asbestos detected	n/t	n/t	n/t	n/t
299355		D3-1-2	Brown Sandy Soil, Stones, Clinker, Organics, Glass, Brick	No asbestos detected	n/t	n/t	n/t	n/t
299356		E3-1	Brown Sandy Soil, Stones, Clinker, Organics	No asbestos detected	n/t	n/t	n/t	n/t
299357		E3-1-2	Brown Sandy Soil, Stones, Clinker, Organics	No asbestos detected	n/t	n/t	n/t	n/t
299358		F3-1	Brown Sandy Soil, Stones, Clinker, Organics	No asbestos detected	n/t	n/t	n/t	n/t
299359		F3-1-2	Brown Sandy Soil, Stones, Clinker, Concrete, Organics, Glass, Brick	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

Report No.: 22-44232, issue number 2a

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
SVOC in solids	N	As submitted sample	27/10/2022		GC-MS
Phenols in solids	M	As submitted sample	27/10/2022	121	HPLC
SVOC in solids	N	As submitted sample	27/10/2022	167	GC-MS
Low range Aliphatic hydrocarbons soil	N	As submitted sample	31/10/2022	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	31/10/2022	181	GC-MS
Total cyanide	M	As submitted sample	28/10/2022	204	Colorimetry
Basic carbon banding in soil	N	As submitted sample	27/10/2022	218	GC-FID
TPH CWG soil by gc-gc	M	As submitted sample	27/10/2022	271	
Asbestos identification	U	Air dried sample	31/10/2022	280	Microscopy
Aqua regia extractable metals	M	Air dried sample	28/10/2022	300	ICPMS
Leachate					
Arsenic	N		31/10/2022	301	ICPMS
Cadmium	N		31/10/2022	301	ICPMS
Chromium	N		31/10/2022	301	ICPMS
Lead	N		31/10/2022	301	ICPMS
Nickel	N		31/10/2022	301	ICPMS
Copper	N		31/10/2022	301	ICPMS
Zinc	N		31/10/2022	301	ICPMS
Mercury	N		31/10/2022	301	ICPMS
Selenium	N		31/10/2022	301	ICPMS
Antimony	N		31/10/2022	301	ICPMS
Barium	N		31/10/2022	301	ICPMS
Molybdenum	N		31/10/2022	301	ICPMS
pH Value	N		31/10/2022	113	Electrometric
Electrical Conductivity	N		31/10/2022	136	Probe
Dissolved Organic Carbon	N		31/10/2022	102	TOC analyser
Chloride	N		31/10/2022	131	Ion Chromatography
Fluoride	N		31/10/2022	131	Ion Chromatography
Sulphate	N		31/10/2022	131	Ion Chromatography
Total Dissolved Solids	N		31/10/2022	144	Gravimetric
Phenol index	N		31/10/2022	121	HPLC
WAC Solids analysis	N				
pH	M	Air dried sample	01/11/2022	113	Electrometric
Total Organic Carbon	N	Air dried sample	28/10/2022	210	IR
Loss on Ignition	M	Air dried sample	27/10/2022	129	Gravimetric
Acid Neutralisation Capacity	N	Air dried sample	01/11/2022	NEN 737	Electrometric
Total BTEX	M	As submitted sample	31/10/2022	181	GCMS
Mineral Oil (EH_CU_1D_Total)	N	As submitted sample	27/10/2022	117	GCFID
Total PCBs (7 congeners)	M	Air dried sample	28/10/2022	120	GCMS
Total (of 17) PAHs	N	As submitted sample	31/10/2022	133	GCFID

Tests marked N are not UKAS accredited

Report Information

Report No.: 22-44232, issue number 2a

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"
LOD	LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination. Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed. ELAB are unable to provide an interpretation or opinion on the content of this report. The results relate only to the sample received. PCB congener results may include any coeluting PCBs Uncertainty of measurement for the determinands tested are available upon request Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Deviation Codes

a	No date of sampling supplied
b	No time of sampling supplied (Waters Only)
c	Sample not received in appropriate containers
d	Sample not received in cooled condition
e	The container has been incorrectly filled
f	Sample age exceeds stability time (sampling to receipt)
g	Sample age exceeds stability time (sampling to analysis)

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month
 All water samples will be retained for 7 days following the date of the test report
 Charges may apply to extended sample storage

TPH Classification - HWOL Acronym System

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



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THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 22-44243

Issue: 2a. Replaces Analytical Report number 22-44243; issue no.1

Date of Issue: 07/11/2022

Contact: David Skinner

Customer Details: Toureen Contractors Ltd
25 Cecil Road
Harrow
MiddlesexHA3 5QY

Quotation No: Q22-03340

Order No: TCL1121

Customer Reference: Not Supplied

Date Received: 25/10/2022

Date Approved: 07/11/2022

Details: River Academy

Approved by:

Mike Varley, General Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

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Sample Summary

Report No.: 22-44243, issue number 2a

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
299390	A3	20/10/2022	26/10/2022	Silty loam	
299391	B2	20/10/2022	26/10/2022	Silty loam	
299392	B3	20/10/2022	26/10/2022	Silty loam	
299393	C2	20/10/2022	26/10/2022	Silty loam	
299394	C3	20/10/2022	26/10/2022	Silty loam	
299395	C3	20/10/2022	26/10/2022	Silty loam	
299396	D2	20/10/2022	26/10/2022	Silty loam	
299397	D3	20/10/2022	26/10/2022	Silty loam	
299398	E1	20/10/2022	26/10/2022	Silty loam	
299399	E2	20/10/2022	26/10/2022	Silty loam	

Results Summary

Report No.: 22-44243, issue number 2a

				ELAB Reference	299390	299391	299392	299393	299394	299395	299396	299397	299398	299399
				Customer Reference										
				Sample ID										
				Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Sample Location	A3	B2	B3	C2	C3	C3	D2	D3	E1	E2
				Sample Depth (m)										
				Sampling Date	20/10/2022	20/10/2022	20/10/2022	20/10/2022	20/10/2022	20/10/2022	20/10/2022	20/10/2022	20/10/2022	20/10/2022
Determinand	Codes	Units	LOD											
Soil sample preparation parameters														
Moisture Content	N	%	0.1	8.5	0.2	12.1	6.9	12.1	12.6	5.8	10.0	10.6	10.3	
Material removed	N	%	0.1	19.0	24.5	19.2	21.3	7.6	22.7	27.3	15.6	21.1	18.8	
Description of Inert material removed	N		0	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	
Metals														
Arsenic	M	mg/kg	0.5	35.0	32.4	35.0	39.1	30.5	26.6	38.7	26.9	29.7	22.0	
Cadmium	M	mg/kg	0.2	0.7	0.5	0.7	0.6	0.6	0.5	0.6	0.3	0.5	0.4	
Chromium	M	mg/kg	1	44.8	41.4	46.0	51.1	45.5	37.9	48.6	36.1	35.9	27.7	
Copper	M	mg/kg	4	46.8	36.2	62.7	48.6	52.8	37.3	67.7	33.3	53.3	37.1	
Lead	M	mg/kg	1	109	91.9	122	123	139	81.8	87.2	92.8	141	72.0	
Mercury	M	mg/kg	0.1	1.2	0.3	0.3	0.4	0.8	0.3	0.3	0.2	0.4	0.3	
Nickel	M	mg/kg	1	36.1	32.3	35.8	40.1	34.1	29.2	38.7	27.3	30.7	24.4	
Selenium	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Vanadium	M	mg/kg	0.5	69.6	63.5	67.0	77.9	64.8	66.6	75.8	56.4	55.9	44.1	
Zinc	M	mg/kg	4.5	158	127	219	180	185	124	170	112	183	94.8	
Inorganics														
Total Cyanide	M	mg/kg	1	< 1.0	< 1.0	1.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Miscellaneous														
Acid Neutralisation Capacity	N	mol/kg	0.1	n/t	n/t	< 0.1	< 0.1	n/t	n/t	n/t	< 0.1	< 0.1	n/t	
Loss on Ignition	M	%	0.01	n/t	n/t	7.54	5.54	n/t	n/t	n/t	5.27	7.11	n/t	
pH	M	pH units	0.1	6.7	6.9	6.7	6.8	7.0	7.6	6.9	7.2	7.2	7.3	
Total Organic Carbon	N	%	0.01	n/t	n/t	2.4	1.4	n/t	n/t	n/t	1.5	2.5	n/t	



Results Summary

Report No.: 22-44243, issue number 2a

ELAB Reference	299390	299391	299392	299393	299394	299395	299396	299397	299398	299399
Customer Reference										
Sample ID										
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	A3	B2	B3	C2	C3	C3	D2	D3	E1	E2
Sample Depth (m)										
Sampling Date	20/10/2022	20/10/2022	20/10/2022	20/10/2022	20/10/2022	20/10/2022	20/10/2022	20/10/2022	20/10/2022	20/10/2022
Determinand	Codes	Units	LOD							
Phenols										
Phenol	M	mg/kg	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
M,P-Cresol	N	mg/kg	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
O-Cresol	N	mg/kg	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
3,4-Dimethylphenol	N	mg/kg	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,3-Dimethylphenol	M	mg/kg	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,3,5-trimethylphenol	M	mg/kg	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Total Monohydric Phenols	N	mg/kg	5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Polyaromatic hydrocarbons										
Naphthalene	M	mg/kg	0.1	n/t	n/t	< 0.1	< 0.1	n/t	n/t	n/t
Acenaphthylene	M	mg/kg	0.1	n/t	n/t	< 0.1	< 0.1	n/t	n/t	n/t
Acenaphthene	M	mg/kg	0.1	n/t	n/t	< 0.1	< 0.1	n/t	n/t	n/t
Fluorene	M	mg/kg	0.1	n/t	n/t	< 0.1	< 0.1	n/t	n/t	n/t
Phenanthrene	M	mg/kg	0.1	n/t	n/t	< 0.1	< 0.1	n/t	n/t	n/t
Anthracene	M	mg/kg	0.1	n/t	n/t	< 0.1	< 0.1	n/t	n/t	n/t
Fluoranthene	M	mg/kg	0.1	n/t	n/t	0.3	0.2	n/t	n/t	n/t
Pyrene	M	mg/kg	0.1	n/t	n/t	0.2	0.2	n/t	n/t	n/t
Benzo(a)anthracene	M	mg/kg	0.1	n/t	n/t	0.1	< 0.1	n/t	n/t	n/t
Chrysene	M	mg/kg	0.1	n/t	n/t	0.1	< 0.1	n/t	n/t	n/t
Benzo(b)fluoranthene	M	mg/kg	0.1	n/t	n/t	0.3	< 0.1	n/t	n/t	n/t
Benzo(k)fluoranthene	M	mg/kg	0.1	n/t	n/t	0.3	< 0.1	n/t	n/t	n/t
Benzo(a)pyrene	M	mg/kg	0.1	n/t	n/t	0.3	< 0.1	n/t	n/t	n/t
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	n/t	n/t	0.2	< 0.1	n/t	n/t	n/t
Dibenzo(a,h)anthracene	M	mg/kg	0.1	n/t	n/t	< 0.1	< 0.1	n/t	n/t	n/t
Benzo[g,h,i]perylene	M	mg/kg	0.1	n/t	n/t	0.2	< 0.1	n/t	n/t	n/t
Total PAH(16)	M	mg/kg	0.4	n/t	n/t	2.3	0.5	n/t	n/t	n/t
Total (of 17) PAHs	N	mg/kg	2	n/t	n/t	2	< 2	n/t	n/t	n/t



Results Summary

Report No.: 22-44243, issue number 2a

ELAB Reference	299390	299391	299392	299393	299394	299395	299396	299397	299398	299399
Customer Reference										
Sample ID										
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	A3	B2	B3	C2	C3	C3	D2	D3	E1	E2
Sample Depth (m)										
Sampling Date	20/10/2022	20/10/2022	20/10/2022	20/10/2022	20/10/2022	20/10/2022	20/10/2022	20/10/2022	20/10/2022	20/10/2022
Determinand	Codes	Units	LOD							
BTEX										
Benzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Toluene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Ethylbenzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Xylenes	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
MTBE	U	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Total BTEX	N	mg/kg	0.01	n/t	n/t	< 0.01	< 0.01	n/t	n/t	< 0.01
TPH CWG										
>C5-C6 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C6-C8 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aliphatic (HS_1D_MS+EH_2D_AL)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C10-C12 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C12-C16 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C16-C21 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C21-C35 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	6.3	1.0	1.7	< 1.0	< 1.0	< 1.0
>C35-C40 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	1.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total aliphatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AL)	N	mg/kg	1	< 1.0	7.9	2.1	2.3	< 1.0	< 1.0	< 1.0
>C5-C7 Aromatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C7-C8 Aromatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aromatic (HS_1D_MS+EH_2D_AR)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C10-C12 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C12-C16 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	1.0	< 1.0	< 1.0	< 1.0
>C16-C21 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C21-C35 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	4.0	6.8	5.2	< 1.0	< 1.0	< 1.0
>C35-C40 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	1.1	< 1.0	< 1.0	< 1.0	1.4	< 1.0
Total aromatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AR)	N	mg/kg	1	< 1.0	5.8	9.7	8.5	< 1.0	< 1.0	< 1.0
Total petroleum hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_Total)	N	mg/kg	1	< 1.0	13.7	11.8	10.8	< 1.0	< 1.0	< 1.0
Total Petroleum Hydrocarbons										
Mineral Oil w Florisil (EH_CU_1D_Total)	N	mg/kg	5	n/t	n/t	7	5	n/t	n/t	n/t
PCB (ICES 7 congeners)										
Total PCBs (7 congeners)	M	mg/kg	0.03	n/t	n/t	< 0.03	< 0.03	n/t	n/t	n/t



Results Summary

2683

Report No.: 22-44243, issue number 2a

ELAB Reference				299390	299391	299392	299393	299394	299395	299396	299397	299398
Customer Reference												
Sample ID												
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				A3	B2	B3	C2	C3	C3	D2	D3	E1
Sample Depth (m)												
Sampling Date				20/10/2022	20/10/2022	20/10/2022	20/10/2022	20/10/2022	20/10/2022	20/10/2022	20/10/2022	20/10/2022
Determinand	Codes	Units	LOD									
Organics												
Coal tar	N	%	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
SVOC												
Phenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bis(2-chloroethyl)ether	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Chlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,3-Dichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,4-Dichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzyl Alcohol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-Dichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Methylphenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bis(2-chloroisopropyl)ether	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
3 and 4-methylphenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
N-Nitrosodi-n-propylamine	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachloroethane	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Nitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Isophorone	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Nitrophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-Dimethylphenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bis(2-chloroethoxy)methane	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-Dichlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,3,5-Trichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Naphthalene	N	mg/kg	0.01	< 0.01	0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
3-Chloroaniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachloro-1,3-butadiene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
4-Chloro-3-methylphenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Methylnaphthalene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1-Methylnaphthalene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachlorocyclopentadiene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4,6-Trichlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4,5-Trichlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

Tests marked N are not UKAS accredited.



Results Summary

2683

Report No.: 22-44243, issue number 2a

ELAB Reference	299390	299391	299392	299393	299394	299395	299396	299397	299398
Customer Reference									
Sample ID									
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	A3	B2	B3	C2	C3	C3	D2	D3	E1
Sample Depth (m)									
Sampling Date	20/10/2022	20/10/2022	20/10/2022	20/10/2022	20/10/2022	20/10/2022	20/10/2022	20/10/2022	20/10/2022
Determinand	Codes	Units	LOD						
Organics									
1-Chloronaphthalene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Nitroaniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,4-Dinitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dimethyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1-3-dinitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-6-dinitrotoluene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthylene	N	mg/kg	0.01	< 0.01	0.04	< 0.01	< 0.01	< 0.01	< 0.01
1,2-Dinitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
3-Nitroaniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
4-nitrophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenzofuran	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,3,5,6-Tetrachlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,3,4,6-Tetrachlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Diethyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1-chloro-4-phenoxybenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
4-Nitroaniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dinitro-o-cresol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Diphenylamine	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Azobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1-bromo-4-phenoxybenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Pentachlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	N	mg/kg	0.01	0.01	0.02	< 0.01	0.02	< 0.01	0.01
Anthracene	N	mg/kg	0.01	< 0.01	0.03	< 0.01	< 0.01	< 0.01	< 0.01
Carbazole	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibutyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	N	mg/kg	0.01	0.03	0.67	0.03	0.05	0.05	0.03
Pyrene	N	mg/kg	0.01	0.03	0.69	0.03	0.04	0.05	0.03
Butyl benzyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

Tests marked N are not UKAS accredited.

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Results Summary

2683

Report No.: 22-44243, issue number 2a

ELAB Reference	299390	299391	299392	299393	299394	299395	299396	299397	299398
Customer Reference									
Sample ID									
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	A3	B2	B3	C2	C3	C3	D2	D3	E1
Sample Depth (m)									
Sampling Date	20/10/2022	20/10/2022	20/10/2022	20/10/2022	20/10/2022	20/10/2022	20/10/2022	20/10/2022	20/10/2022

Determinand	Codes	Units	LOD									
Organics												
Bis-2-ethylhexyladipate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Diisooctyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)anthracene	N	mg/kg	0.01	0.02	0.54	0.02	0.03	0.03	0.01	< 0.01	0.02	0.09
Chrysene	N	mg/kg	0.01	0.02	0.43	0.02	0.03	0.03	0.02	< 0.01	0.02	0.09
Bis(2-ethylhexyl)phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	N	mg/kg	0.01	0.02	0.50	0.03	0.04	0.04	0.02	< 0.01	0.03	0.13
Benzo(k)fluoranthene	N	mg/kg	0.01	0.02	0.56	0.03	0.03	0.04	0.02	< 0.01	0.03	0.11
Benzo(a)pyrene	N	mg/kg	0.01	0.02	0.61	0.03	0.03	0.03	0.02	< 0.01	0.02	0.10
Indeno(1,2,3-cd)pyrene	N	mg/kg	0.01	0.01	0.28	0.02	0.02	0.02	0.01	< 0.01	0.01	0.06
Dibenzo(a,h)anthracene	N	mg/kg	0.01	< 0.01	0.12	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.02
Benzo[g,h,i]perylene	N	mg/kg	0.01	0.02	0.32	0.02	0.02	0.03	0.01	< 0.01	0.02	0.07



Results Summary

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Report No.: 22-44243, issue number 2a

ELAB Reference	299399
Customer Reference	
Sample ID	
Sample Type	SOIL
Sample Location	E2
Sample Depth (m)	
Sampling Date	20/10/2022

Determinand	Codes	Units	LOD	
Organics				
Coal tar	N	%	0.01	< 0.01
SVOC				
Phenol	N	mg/kg	0.01	< 0.01
Aniline	N	mg/kg	0.01	< 0.01
Bis(2-chloroethyl)ether	N	mg/kg	0.01	< 0.01
2-Chlorophenol	N	mg/kg	0.01	< 0.01
1,3-Dichlorobenzene	N	mg/kg	0.01	< 0.01
1,4-Dichlorobenzene	N	mg/kg	0.01	< 0.01
Benzyl Alcohol	N	mg/kg	0.01	< 0.01
1,2-Dichlorobenzene	N	mg/kg	0.01	< 0.01
2-Methylphenol	N	mg/kg	0.01	< 0.01
Bis(2-chloroisopropyl)ether	N	mg/kg	0.01	< 0.01
3 and 4-methylphenol	N	mg/kg	0.01	< 0.01
N-Nitrosodi-n-propylamine	N	mg/kg	0.01	< 0.01
Hexachloroethane	N	mg/kg	0.01	< 0.01
Nitrobenzene	N	mg/kg	0.01	< 0.01
Isophorone	N	mg/kg	0.01	< 0.01
2-Nitrophenol	N	mg/kg	0.01	< 0.01
2,4-Dimethylphenol	N	mg/kg	0.01	< 0.01
Bis(2-chloroethoxy)methane	N	mg/kg	0.01	< 0.01
2,4-Dichlorophenol	N	mg/kg	0.01	< 0.01
1,3,5-Trichlorobenzene	N	mg/kg	0.01	< 0.01
Naphthalene	N	mg/kg	0.01	< 0.01
3-Chloroaniline	N	mg/kg	0.01	< 0.01
Hexachloro-1,3-butadiene	N	mg/kg	0.01	< 0.01
4-Chloro-3-methylphenol	N	mg/kg	0.01	< 0.01
2-Methylnaphthalene	N	mg/kg	0.01	< 0.01
1-Methylnaphthalene	N	mg/kg	0.01	< 0.01
Hexachlorocyclopentadiene	N	mg/kg	0.01	< 0.01
2,4,6-Trichlorophenol	N	mg/kg	0.01	< 0.01
2,4,5-Trichlorophenol	N	mg/kg	0.01	< 0.01

Tests marked N are not UKAS accredited.

The Environmental Laboratory Ltd. Reg. No. 3882193



Results Summary

2683

Report No.: 22-44243, issue number 2a

ELAB Reference	299399
Customer Reference	
Sample ID	
Sample Type	SOIL
Sample Location	E2
Sample Depth (m)	
Sampling Date	20/10/2022

Determinand	Codes	Units	LOD	
Organics				
1-Chloronaphthalene	N	mg/kg	0.01	< 0.01
2-Nitroaniline	N	mg/kg	0.01	< 0.01
1,4-Dinitrobenzene	N	mg/kg	0.01	< 0.01
Dimethyl phthalate	N	mg/kg	0.01	< 0.01
1-3-dinitrobenzene	N	mg/kg	0.01	< 0.01
2-6-dinitrotoluene	N	mg/kg	0.01	< 0.01
Acenaphthylene	N	mg/kg	0.01	< 0.01
1,2-Dinitrobenzene	N	mg/kg	0.01	< 0.01
3-Nitroaniline	N	mg/kg	0.01	< 0.01
Acenaphthene	N	mg/kg	0.01	< 0.01
4-nitrophenol	N	mg/kg	0.01	< 0.01
Dibenzofuran	N	mg/kg	0.01	< 0.01
2,3,5,6-Tetrachlorophenol	N	mg/kg	0.01	< 0.01
2,3,4,6-Tetrachlorophenol	N	mg/kg	0.01	< 0.01
Diethyl phthalate	N	mg/kg	0.01	< 0.01
1-chloro-4-phenoxybenzene	N	mg/kg	0.01	< 0.01
Fluorene	N	mg/kg	0.01	< 0.01
4-Nitroaniline	N	mg/kg	0.01	< 0.01
Dinitro-o-cresol	N	mg/kg	0.01	< 0.01
Diphenylamine	N	mg/kg	0.01	< 0.01
Azobenzene	N	mg/kg	0.01	< 0.01
1-bromo-4-phenoxybenzene	N	mg/kg	0.01	< 0.01
Hexachlorobenzene	N	mg/kg	0.01	< 0.01
Pentachlorophenol	N	mg/kg	0.01	< 0.01
Phenanthrene	N	mg/kg	0.01	< 0.01
Anthracene	N	mg/kg	0.01	< 0.01
Carbazole	N	mg/kg	0.01	< 0.01
Dibutyl phthalate	N	mg/kg	0.01	< 0.01
Fluoranthene	N	mg/kg	0.01	0.03
Pyrene	N	mg/kg	0.01	0.03
Butyl benzyl phthalate	N	mg/kg	0.01	< 0.01

Tests marked N are not UKAS accredited.
The Environmental Laboratory Ltd. Reg. No. 3882193



Results Summary

2683

Report No.: 22-44243, issue number 2a

ELAB Reference	299399
Customer Reference	
Sample ID	
Sample Type	SOIL
Sample Location	E2
Sample Depth (m)	
Sampling Date	20/10/2022

Determinand	Codes	Units	LOD	
Organics				
Bis-2-ethylhexyladipate	N	mg/kg	0.01	< 0.01
Diisooctyl phthalate	N	mg/kg	0.01	< 0.01
Benzo(a)anthracene	N	mg/kg	0.01	0.02
Chrysene	N	mg/kg	0.01	0.02
Bis(2-ethylhexyl)phthalate	N	mg/kg	0.01	< 0.01
Benzo(b)fluoranthene	N	mg/kg	0.01	0.02
Benzo(k)fluoranthene	N	mg/kg	0.01	0.02
Benzo(a)pyrene	N	mg/kg	0.01	0.02
Indeno(1,2,3-cd)pyrene	N	mg/kg	0.01	0.01
Dibenzo(a,h)anthracene	N	mg/kg	0.01	< 0.01
Benzo[g,h,i]perylene	N	mg/kg	0.01	0.01

Results Summary

Report No.: 22-44243, issue number 2a

WAC Analysis

Elab Ref:	299398					Landfill Waste Acceptance Criteria Limits*		
Sample Date:	20/10/2022					Inert Waste Landfill	Stable Non-reactive Hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:	E1							
Depth (m)								
Site:	River Academy							
Determinand		Code	Units					
Total Organic Carbon		N	%		2.50	3	5	6
Loss on Ignition		M	%		7.1	--	--	10
Total BTEX		M	mg/kg		< 0.01	6	--	--
Total PCBs (7 congeners)		M	mg/kg		< 0.03	1	--	--
TPH Total WAC (EH_CU_1D_Total)		N	mg/kg		< 5	500	--	--
Total (of 17) PAHs		N	mg/kg		4.0	100	--	--
pH		M			7.2	--	>6	--
Acid Neutralisation Capacity		N	mol/kg		< 0.1	--	To evaluate	To evaluate

Eluate Analysis

			10:1	10:1	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg		
			mg/l	mg/kg			
Arsenic		N	< 0.005	< 0.05	0.5	2	25
Barium		N	0.009	0.09	20	100	300
Cadmium		N	< 0.001	< 0.01	0.04	1	5
Chromium		N	< 0.005	< 0.05	0.5	10	70
Copper		N	0.005	0.05	2	50	100
Mercury		N	< 0.005	< 0.01	0.01	0.2	2
Molybdenum		N	< 0.005	< 0.05	0.5	10	30
Nickel		N	0.001	< 0.05	0.4	10	40
Lead		N	< 0.001	< 0.05	0.5	10	50
Antimony		N	< 0.005	< 0.05	0.06	0.7	5
Selenium		N	< 0.005	< 0.05	0.1	0.5	7
Zinc		N	< 0.005	< 0.05	4	50	200
Chloride		N	< 5	< 50	800	15000	25000
Fluoride		N	< 5	< 10	10	150	500
Sulphate		N	2	17.50	1000	20000	50000
Total Dissolved Solids		N	73	735.00	4000	60000	100000
Phenol Index		N	< 0.01	< 0.10	1	-	-
Dissolved Organic Carbon		N	8.820	88.00	500	800	1000

Leach Test Information

pH		N	7.6				
Conductivity (uS/cm)		N	110				
Dry mass of test portion (g)			102.000				
Dry Matter (%)			87				
Moisture (%)			15				
Eluent Volume (ml)			996				

Results are expressed on a dry weight basis, after correction for moisture content where applicable

* Stated limits are for guidance only, and not for conformity assessment.

Results Summary

Report No.: 22-44243, issue number 2a

WAC Analysis

Elab Ref:	299397					Landfill Waste Acceptance Criteria Limits*		
Sample Date:	20/10/2022					Inert Waste Landfill	Stable Non-reactive Hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:	D3							
Depth (m)								
Site:	River Academy							
Determinand		Code	Units					
Total Organic Carbon		N	%		1.50	3	5	6
Loss on Ignition		M	%		5.3	--	--	10
Total BTEX		M	mg/kg		< 0.01	6	--	--
Total PCBs (7 congeners)		M	mg/kg		< 0.03	1	--	--
TPH Total WAC (EH_CU_1D_Total)		N	mg/kg		6	500	--	--
Total (of 17) PAHs		N	mg/kg		3.0	100	--	--
pH		M			7.2	--	>6	--
Acid Neutralisation Capacity		N	mol/kg		< 0.1	--	To evaluate	To evaluate

Eluate Analysis

			10:1	10:1	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg		
			mg/l	mg/kg			
Arsenic		N	< 0.005	< 0.05	0.5	2	25
Barium		N	0.005	0.05	20	100	300
Cadmium		N	< 0.001	< 0.01	0.04	1	5
Chromium		N	< 0.005	< 0.05	0.5	10	70
Copper		N	< 0.005	< 0.05	2	50	100
Mercury		N	< 0.005	< 0.01	0.01	0.2	2
Molybdenum		N	< 0.005	< 0.05	0.5	10	30
Nickel		N	< 0.001	< 0.05	0.4	10	40
Lead		N	< 0.001	< 0.05	0.5	10	50
Antimony		N	< 0.005	< 0.05	0.06	0.7	5
Selenium		N	< 0.005	< 0.05	0.1	0.5	7
Zinc		N	< 0.005	< 0.05	4	50	200
Chloride		N	< 5	< 50	800	15000	25000
Fluoride		N	< 5	< 10	10	150	500
Sulphate		N	< 1	< 10.0	1000	20000	50000
Total Dissolved Solids		N	44	438.00	4000	60000	100000
Phenol Index		N	< 0.01	< 0.10	1	-	-
Dissolved Organic Carbon		N	7.050	71.00	500	800	1000

Leach Test Information

pH		N	7.5				
Conductivity (uS/cm)		N	65				
Dry mass of test portion (g)			102.000				
Dry Matter (%)			88				
Moisture (%)			14				
Eluent Volume (ml)			993				

Results are expressed on a dry weight basis, after correction for moisture content where applicable

* Stated limits are for guidance only, and not for conformity assessment.

Results Summary

Report No.: 22-44243, issue number 2a

WAC Analysis

Elab Ref:	299393					Landfill Waste Acceptance Criteria Limits*		
Sample Date:	20/10/2022					Inert Waste Landfill	Stable Non-reactive Hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:	C2							
Depth (m)								
Site:	River Academy							
Determinand		Code	Units					
Total Organic Carbon		N	%		1.40	3	5	6
Loss on Ignition		M	%		5.5	--	--	10
Total BTEX		M	mg/kg		< 0.01	6	--	--
Total PCBs (7 congeners)		M	mg/kg		< 0.03	1	--	--
TPH Total WAC (EH_CU_1D_Total)		N	mg/kg		5	500	--	--
Total (of 17) PAHs		N	mg/kg		< 2	100	--	--
pH		M			6.8	--	>6	--
Acid Neutralisation Capacity		N	mol/kg		< 0.1	--	To evaluate	To evaluate

Eluate Analysis

			10:1	10:1	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg		
			mg/l	mg/kg			
Arsenic		N	< 0.005	< 0.05	0.5	2	25
Barium		N	< 0.005	< 0.05	20	100	300
Cadmium		N	< 0.001	< 0.01	0.04	1	5
Chromium		N	< 0.005	< 0.05	0.5	10	70
Copper		N	< 0.005	< 0.05	2	50	100
Mercury		N	< 0.005	< 0.01	0.01	0.2	2
Molybdenum		N	< 0.005	< 0.05	0.5	10	30
Nickel		N	0.001	< 0.05	0.4	10	40
Lead		N	< 0.001	< 0.05	0.5	10	50
Antimony		N	< 0.005	< 0.05	0.06	0.7	5
Selenium		N	< 0.005	< 0.05	0.1	0.5	7
Zinc		N	0.009	0.09	4	50	200
Chloride		N	< 5	< 50	800	15000	25000
Fluoride		N	< 5	< 10	10	150	500
Sulphate		N	1	13.70	1000	20000	50000
Total Dissolved Solids		N	18	183.00	4000	60000	100000
Phenol Index		N	< 0.01	< 0.10	1	-	-
Dissolved Organic Carbon		N	8.150	81.00	500	800	1000

Leach Test Information

pH		N	7.5				
Conductivity (uS/cm)		N	< 50				
Dry mass of test portion (g)			101.000				
Dry Matter (%)			91				
Moisture (%)			10				
Eluent Volume (ml)			980				

Results are expressed on a dry weight basis, after correction for moisture content where applicable

* Stated limits are for guidance only, and not for conformity assessment.

Results Summary

Report No.: 22-44243, issue number 2a

WAC Analysis

Elab Ref:	299392					Landfill Waste Acceptance Criteria Limits*		
Sample Date:	20/10/2022					Inert Waste Landfill	Stable Non-reactive Hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:	B3							
Depth (m)								
Site:	River Academy							
Determinand		Code	Units					
Total Organic Carbon		N	%		2.40	3	5	6
Loss on Ignition		M	%		7.5	--	--	10
Total BTEX		M	mg/kg		< 0.01	6	--	--
Total PCBs (7 congeners)		M	mg/kg		< 0.03	1	--	--
TPH Total WAC (EH_CU_1D_Total)		N	mg/kg		7	500	--	--
Total (of 17) PAHs		N	mg/kg		2.0	100	--	--
pH		M			6.7	--	>6	--
Acid Neutralisation Capacity		N	mol/kg		< 0.1	--	To evaluate	To evaluate

Eluate Analysis

			10:1	10:1	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg		
			mg/l	mg/kg			
Arsenic		N	< 0.005	< 0.05	0.5	2	25
Barium		N	< 0.005	< 0.05	20	100	300
Cadmium		N	< 0.001	< 0.01	0.04	1	5
Chromium		N	< 0.005	< 0.05	0.5	10	70
Copper		N	0.007	0.07	2	50	100
Mercury		N	< 0.005	< 0.01	0.01	0.2	2
Molybdenum		N	< 0.005	< 0.05	0.5	10	30
Nickel		N	0.002	< 0.05	0.4	10	40
Lead		N	< 0.001	< 0.05	0.5	10	50
Antimony		N	< 0.005	< 0.05	0.06	0.7	5
Selenium		N	< 0.005	< 0.05	0.1	0.5	7
Zinc		N	0.017	0.17	4	50	200
Chloride		N	< 5	< 50	800	15000	25000
Fluoride		N	< 5	< 10	10	150	500
Sulphate		N	2	17.00	1000	20000	50000
Total Dissolved Solids		N	29	285.00	4000	60000	100000
Phenol Index		N	< 0.01	< 0.10	1	-	-
Dissolved Organic Carbon		N	10.600	106.00	500	800	1000

Leach Test Information

pH		N	7.5				
Conductivity (uS/cm)		N	< 50				
Dry mass of test portion (g)			103.000				
Dry Matter (%)			85				
Moisture (%)			18				
Eluent Volume (ml)			994				

Results are expressed on a dry weight basis, after correction for moisture content where applicable

* Stated limits are for guidance only, and not for conformity assessment.

Results Summary

Report No.: 22-44243, issue number 2a

Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #) in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos Identification	Gravimetric Analysis Total (%)	Gravimetric Analysis by ACM Type (%)	Free Fibre Analysis (%)	Total Asbestos (%)
299390		A3	Brown sandy soil, stones, clinker, glass, organics	No asbestos detected	n/t	n/t	n/t	n/t
299391		B2	Brown sandy soil, stones, brick, clinker, organics	No asbestos detected	n/t	n/t	n/t	n/t
299392		B3	Brown sandy soil, stones, brick, clinker, organics	No asbestos detected	n/t	n/t	n/t	n/t
299393		C2	Brown sandy soil, stones, brick, clinker, glass, organics	No asbestos detected	n/t	n/t	n/t	n/t
299394		C3	Brown sandy soil, stones, clinker, organics	No asbestos detected	n/t	n/t	n/t	n/t
299395		C3	Brown sandy soil, stones, brick, clinker, organics	No asbestos detected	n/t	n/t	n/t	n/t
299396		D2	Brown sandy soil, stones, clinker, organics	No asbestos detected	n/t	n/t	n/t	n/t
299397		D3	Brown sandy soil, stones, clinker, organics	No asbestos detected	n/t	n/t	n/t	n/t
299398		E1	Brown sandy soil, stones, clinker, glass, organics	No asbestos detected	n/t	n/t	n/t	n/t
299399		E2	Brown sandy soil, stones, clinker, organics	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

Report No.: 22-44243, issue number 2a

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
SVOC in solids	N	As submitted sample	28/10/2022		GC-MS
Phenols in solids	M	As submitted sample	28/10/2022	121	HPLC
SVOC in solids	N	As submitted sample	28/10/2022	167	GC-MS
Low range Aliphatic hydrocarbons soil	N	As submitted sample	31/10/2022	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	31/10/2022	181	GC-MS
Total cyanide	M	As submitted sample	28/10/2022	204	Colorimetry
Basic carbon banding in soil	N	As submitted sample	28/10/2022	218	GC-FID
TPH CWG soil by gc-gc	M	As submitted sample	28/10/2022	271	
Asbestos identification	U	Air dried sample	01/11/2022	280	Microscopy
Aqua regia extractable metals	M	Air dried sample	28/10/2022	300	ICPMS
Leachate					
Arsenic	N		01/11/2022	301	ICPMS
Cadmium	N		01/11/2022	301	ICPMS
Chromium	N		01/11/2022	301	ICPMS
Lead	N		01/11/2022	301	ICPMS
Nickel	N		01/11/2022	301	ICPMS
Copper	N		01/11/2022	301	ICPMS
Zinc	N		01/11/2022	301	ICPMS
Mercury	N		01/11/2022	301	ICPMS
Selenium	N		01/11/2022	301	ICPMS
Antimony	N		01/11/2022	301	ICPMS
Barium	N		01/11/2022	301	ICPMS
Molybdenum	N		01/11/2022	301	ICPMS
pH Value	N		01/11/2022	113	Electrometric
Electrical Conductivity	N		01/11/2022	136	Probe
Dissolved Organic Carbon	N		01/11/2022	102	TOC analyser
Chloride	N		01/11/2022	131	Ion Chromatography
Fluoride	N		01/11/2022	131	Ion Chromatography
Sulphate	N		01/11/2022	131	Ion Chromatography
Total Dissolved Solids	N		01/11/2022	144	Gravimetric
Phenol index	N		01/11/2022	121	HPLC
WAC Solids analysis	N				
pH	M	Air dried sample	02/11/2022	113	Electrometric
Total Organic Carbon	N	Air dried sample	31/10/2022	210	IR
Loss on Ignition	M	Air dried sample	01/11/2022	129	Gravimetric
Acid Neutralisation Capacity	N	Air dried sample	02/11/2022	NEN 737	Electrometric
Total BTEX	M	As submitted sample	31/10/2022	181	GCMS
Mineral Oil (EH_CU_1D_Total)	N	As submitted sample	28/10/2022	117	GCFID
Total PCBs (7 congeners)	M	Air dried sample	31/10/2022	120	GCMS
Total (of 17) PAHs	N	As submitted sample	01/11/2022	133	GCFID

Tests marked N are not UKAS accredited

Report Information

Report No.: 22-44243, issue number 2a

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"
LOD	LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination. Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed. ELAB are unable to provide an interpretation or opinion on the content of this report. The results relate only to the sample received. PCB congener results may include any coeluting PCBs Uncertainty of measurement for the determinands tested are available upon request Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Deviation Codes

a	No date of sampling supplied
b	No time of sampling supplied (Waters Only)
c	Sample not received in appropriate containers
d	Sample not received in cooled condition
e	The container has been incorrectly filled
f	Sample age exceeds stability time (sampling to receipt)
g	Sample age exceeds stability time (sampling to analysis)

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month
 All water samples will be retained for 7 days following the date of the test report
 Charges may apply to extended sample storage

TPH Classification - HWOL Acronym System

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



2683



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THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 22-44274

Issue: 1

Date of Issue: 07/11/2022

Contact: Rick Willemse

Customer Details: Toureen Contractors Ltd
25 Cecil Road
Harrow
Middlesex HA3 5QY

Quotation No: Q22-03340

Order No: TCL1121

Customer Reference: Not Supplied

Date Received: 27/10/2022

Date Approved: 07/11/2022

Details: River Academy

Approved by: 

Mike Varley, General Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

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Sample Summary

Report No.: 22-44274, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
299654	G3. 1	25/10/2022	27/10/2022	Sandy silty loam	
299655	G3. 1.2	25/10/2022	27/10/2022		
299656	H3 .1	25/10/2022	27/10/2022	Sandy silty loam	
299657	H3. 1.2	25/10/2022	27/10/2022		
299658	I3. 1	25/10/2022	27/10/2022	Sandy silty loam	
299659	I3. 1.2	25/10/2022	27/10/2022		
299660	J3. 1	25/10/2022	27/10/2022	Sandy silty loam	
299661	J3. 1.2	25/10/2022	27/10/2022		
299662	A4. 1	25/10/2022	27/10/2022	Silty loam	
299663	A4. 1.2	25/10/2022	27/10/2022		
299664	B4. 1	25/10/2022	27/10/2022	Silty loam	
299665	B4. 1.2	25/10/2022	27/10/2022		
299666	C4. 1	25/10/2022	27/10/2022	Silty loam	
299667	C4. 1.2	25/10/2022	27/10/2022		
299668	D4. 1	25/10/2022	27/10/2022	Silty loam	
299669	D4. 1.2	25/10/2022	27/10/2022		



Results Summary

Report No.: 22-44274, issue number 1

ELAB Reference			299654	299656	299658	299660	299662	299664	299666	299668
Customer Reference										
Sample ID										
Sample Type			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location			G3. 1	H3 .1	I3. 1	J3. 1	A4. 1	B4. 1	C4. 1	D4. 1
Sample Depth (m)										
Sampling Date			25/10/2022	25/10/2022	25/10/2022	25/10/2022	25/10/2022	25/10/2022	25/10/2022	25/10/2022
ps	Units	LOD								
	%	0.1	15.7	13.0	13.9	12.0	17.2	17.6	17.1	17.6
	%	0.1	29.4	27.9	19.0	24.7	22.5	26.8	21.6	17.5
		0	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones
	mg/kg	0.5	24.2	31.6	25.2	24.8	30.3	32.4	35.7	27.7
	mg/kg	0.2	0.5	0.4	0.3	0.2	0.5	0.5	0.5	0.5
	mg/kg	1	39.5	42.3	35.5	32.3	38.8	42.0	42.3	40.4
	mg/kg	4	42.2	42.7	26.2	29.6	37.0	36.2	42.9	40.0
	mg/kg	1	89.3	74.8	63.9	82.2	82.4	89.1	109	101
	mg/kg	0.1	0.4	0.2	0.2	0.2	0.3	0.3	0.3	0.3
	mg/kg	1	30.7	35.9	29.3	25.7	31.7	32.5	32.2	31.4
	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	mg/kg	0.5	52.5	63.0	54.8	49.4	59.9	66.9	64.7	60.9
	mg/kg	4.5	130	101	91.7	99.1	124	129	207	169
	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	mol/kg	0.1	n/t	n/t	< 0.1	n/t	n/t	n/t	n/t	n/t
	%	0.01	n/t	n/t	5.29	n/t	n/t	n/t	n/t	n/t
	pH units	0.1	9.0	8.7	8.5	8.4	8.0	8.0	7.9	7.9
	%	0.01	n/t	n/t	1.0	n/t	n/t	n/t	n/t	n/t



Results Summary

Report No.: 22-44274, issue number 1

ELAB Reference	299654	299656	299658	299660	299662	299664	299666	299668
Customer Reference								
Sample ID								
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	G3. 1	H3. 1	I3. 1	J3. 1	A4. 1	B4. 1	C4. 1	D4. 1
Sample Depth (m)								
Sampling Date	25/10/2022	25/10/2022	25/10/2022	25/10/2022	25/10/2022	25/10/2022	25/10/2022	25/10/2022
Determinand	Codes	Units	LOD					
Phenols								
Phenol	M	mg/kg	1	< 1	< 1	< 1	< 1	< 1
M,P-Cresol	N	mg/kg	1	< 1	< 1	< 1	< 1	< 1
O-Cresol	N	mg/kg	1	< 1	< 1	< 1	< 1	< 1
3,4-Dimethylphenol	N	mg/kg	1	< 1	< 1	< 1	< 1	< 1
2,3-Dimethylphenol	M	mg/kg	1	< 1	< 1	< 1	< 1	< 1
2,3,5-trimethylphenol	M	mg/kg	1	< 1	< 1	< 1	< 1	< 1
Total Monohydric Phenols	N	mg/kg	5	< 5	< 5	< 5	< 5	< 5
Polyaromatic hydrocarbons								
Naphthalene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t	n/t
Acenaphthylene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t	n/t
Acenaphthene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t	n/t
Fluorene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t	n/t
Phenanthrene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t	n/t
Anthracene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t	n/t
Fluoranthene	M	mg/kg	0.1	n/t	n/t	0.2	n/t	n/t
Pyrene	M	mg/kg	0.1	n/t	n/t	0.1	n/t	n/t
Benzo(a)anthracene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t	n/t
Chrysene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t	n/t
Benzo(b)fluoranthene	M	mg/kg	0.1	n/t	n/t	0.1	n/t	n/t
Benzo(k)fluoranthene	M	mg/kg	0.1	n/t	n/t	0.2	n/t	n/t
Benzo(a)pyrene	M	mg/kg	0.1	n/t	n/t	0.1	n/t	n/t
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t	n/t
Dibenzo(a,h)anthracene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t	n/t
Benzo[g,h,i]perylene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t	n/t
Total PAH(16)	M	mg/kg	0.4	n/t	n/t	1.0	n/t	n/t
Total (of 17) PAHs	N	mg/kg	2	n/t	n/t	< 2	n/t	n/t



Results Summary

Report No.: 22-44274, issue number 1

ELAB Reference	299654	299656	299658	299660	299662	299664	299666	299668
Customer Reference								
Sample ID								
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	G3. 1	H3 .1	I3. 1	J3. 1	A4. 1	B4. 1	C4. 1	D4. 1
Sample Depth (m)								
Sampling Date	25/10/2022	25/10/2022	25/10/2022	25/10/2022	25/10/2022	25/10/2022	25/10/2022	25/10/2022
Determinand	Codes	Units	LOD					
BTEX								
Benzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Toluene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Ethylbenzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Xylenes	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
MTBE	U	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Total BTEX	N	mg/kg	0.01	n/t	n/t	< 0.01	n/t	n/t
TPH CWG								
>C5-C6 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C6-C8 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aliphatic (HS_1D_MS+EH_2D_AL)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C10-C12 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C12-C16 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C16-C21 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C21-C35 Aliphatic (EH_2D_AL)	M	mg/kg	1	1.3	< 1.0	5.9	< 1.0	< 1.0
>C35-C40 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total aliphatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AL)	N	mg/kg	1	1.5	< 1.0	7.5	< 1.0	< 1.0
>C5-C7 Aromatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C7-C8 Aromatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aromatic (HS_1D_MS+EH_2D_AR)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C10-C12 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C12-C16 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	1.6	< 1.0	< 1.0
>C16-C21 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C21-C35 Aromatic (EH_2D_AR)	M	mg/kg	1	3.0	< 1.0	5.7	2.2	< 1.0
>C35-C40 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total aromatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AR)	N	mg/kg	1	4.1	< 1.0	9.2	3.1	< 1.0
Total petroleum hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_Total)	N	mg/kg	1	5.6	< 1.0	16.7	3.1	< 1.0
Total Petroleum Hydrocarbons								
Mineral Oil w Florisil (EH_CU_1D_Total)	N	mg/kg	5	n/t	n/t	< 5	n/t	n/t
PCB (ICES 7 congeners)								
Total PCBs (7 congeners)	M	mg/kg	0.03	n/t	n/t	< 0.03	n/t	n/t

Tests marked N are not UKAS accredited.

The Environmental Laboratory Ltd. Reg. No. 3882193



Results Summary

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Report No.: 22-44274, issue number 1

ELAB Reference				299654	299656	299658	299660	299662
Customer Reference								
Sample ID								
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				G3. 1	H3. 1	I3. 1	J3. 1	A4. 1
Sample Depth (m)								
Sampling Date				25/10/2022	25/10/2022	25/10/2022	25/10/2022	25/10/2022
Determinand	Codes	Units	LOD					
Organics								
Coal tar	N	%	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
SVOC								
Phenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bis(2-chloroethyl)ether	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Chlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,3-Dichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,4-Dichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzyl Alcohol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-Dichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Methylphenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bis(2-chloroisopropyl)ether	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
3 and 4-methylphenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
N-Nitrosodi-n-propylamine	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachloroethane	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Nitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Isophorone	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Nitrophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-Dimethylphenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bis(2-chloroethoxy)methane	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-Dichlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,3,5-Trichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Naphthalene	N	mg/kg	0.01	0.03	< 0.01	< 0.01	< 0.01	0.01
3-Chloroaniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachloro-1,3-butadiene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
4-Chloro-3-methylphenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Methylnaphthalene	N	mg/kg	0.01	0.02	< 0.01	< 0.01	< 0.01	0.03
1-Methylnaphthalene	N	mg/kg	0.01	0.02	< 0.01	< 0.01	< 0.01	0.03
Hexachlorocyclopentadiene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4,6-Trichlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4,5-Trichlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1-Chloronaphthalene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Nitroaniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,4-Dinitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dimethyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1-3-dinitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-6-dinitrotoluene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthylene	N	mg/kg	0.01	0.02	< 0.01	0.02	0.01	0.01
1,2-Dinitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
3-Nitroaniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
4-nitrophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenzofuran	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.02
2,3,5,6-Tetrachlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,3,4,6-Tetrachlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Diethyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1-chloro-4-phenoxybenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
4-Nitroaniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dinitro-o-cresol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Diphenylamine	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Azobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1-bromo-4-phenoxybenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

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Results Summary

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Report No.: 22-44274, issue number 1

ELAB Reference				299654	299656	299658	299660	299662
Customer Reference								
Sample ID								
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				G3. 1	H3 .1	I3. 1	J3. 1	A4. 1
Sample Depth (m)								
Sampling Date				25/10/2022	25/10/2022	25/10/2022	25/10/2022	25/10/2022
Determinand	Codes	Units	LOD					
Organics								
Hexachlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Pentachlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	N	mg/kg	0.01	0.06	0.02	0.07	0.04	0.07
Anthracene	N	mg/kg	0.01	0.02	< 0.01	0.02	0.01	0.01
Carbazole	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibutyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	N	mg/kg	0.01	0.25	0.10	0.28	0.20	0.11
Pyrene	N	mg/kg	0.01	0.25	0.09	0.26	0.19	0.11
Butyl benzyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bis-2-ethylhexyladipate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Diisooctyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)anthracene	N	mg/kg	0.01	0.11	0.04	0.13	0.11	0.06
Chrysene	N	mg/kg	0.01	0.14	0.07	0.14	0.12	0.07
Bis(2-ethylhexyl)phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	N	mg/kg	0.01	0.12	0.05	0.11	0.10	0.06
Benzo(k)fluoranthene	N	mg/kg	0.01	0.12	0.06	0.14	0.12	0.07
Benzo(a)pyrene	N	mg/kg	0.01	0.13	0.06	0.13	0.12	0.08
Indeno(1,2,3-cd)pyrene	N	mg/kg	0.01	0.08	0.04	0.08	0.07	0.04
Dibenzo(a,h)anthracene	N	mg/kg	0.01	0.03	0.01	0.03	0.03	0.02
Benzo[g,h,i]perylene	N	mg/kg	0.01	0.10	0.05	0.09	0.08	0.05



Results Summary

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Report No.: 22-44274, issue number 1

ELAB Reference	299664	299666	299668
Customer Reference			
Sample ID			
Sample Type	SOIL	SOIL	SOIL
Sample Location	B4. 1	C4. 1	D4. 1
Sample Depth (m)			
Sampling Date	25/10/2022	25/10/2022	25/10/2022

Determinand	Codes	Units	LOD			
Organics						
Coal tar	N	%	0.01	< 0.01	< 0.01	< 0.01
SVOC						
Phenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Aniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Bis(2-chloroethyl)ether	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
2-Chlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
1,3-Dichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
1,4-Dichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Benzyl Alcohol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
1,2-Dichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
2-Methylphenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Bis(2-chloroisopropyl)ether	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
3 and 4-methylphenol	N	mg/kg	0.01	< 0.01	0.01	0.01
N-Nitrosodi-n-propylamine	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Hexachloroethane	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Nitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Isophorone	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
2-Nitrophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
2,4-Dimethylphenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Bis(2-chloroethoxy)methane	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
2,4-Dichlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
1,3,5-Trichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Naphthalene	N	mg/kg	0.01	< 0.01	0.03	0.02
3-Chloroaniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Hexachloro-1,3-butadiene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
4-Chloro-3-methylphenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
2-Methylnaphthalene	N	mg/kg	0.01	< 0.01	0.03	< 0.01
1-Methylnaphthalene	N	mg/kg	0.01	< 0.01	0.02	< 0.01
Hexachlorocyclopentadiene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
2,4,6-Trichlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
2,4,5-Trichlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
1-Chloronaphthalene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
2-Nitroaniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
1,4-Dinitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Dimethyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
1-3-dinitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
2-6-dinitrotoluene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Acenaphthylene	N	mg/kg	0.01	< 0.01	0.02	0.02
1,2-Dinitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
3-Nitroaniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
4-nitrophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Dibenzofuran	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
2,3,5,6-Tetrachlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
2,3,4,6-Tetrachlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Diethyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
1-chloro-4-phenoxybenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Fluorene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
4-Nitroaniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Dinitro-o-cresol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Diphenylamine	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Azobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
1-bromo-4-phenoxybenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01

Tests marked N are not UKAS accredited.



Results Summary

2683

Report No.: 22-44274, issue number 1

ELAB Reference	299664	299666	299668
Customer Reference			
Sample ID			
Sample Type	SOIL	SOIL	SOIL
Sample Location	B4. 1	C4. 1	D4. 1
Sample Depth (m)			
Sampling Date	25/10/2022	25/10/2022	25/10/2022

Determinand	Codes	Units	LOD			
Organics						
Hexachlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Pentachlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	N	mg/kg	0.01	0.03	0.09	0.06
Anthracene	N	mg/kg	0.01	< 0.01	0.02	0.02
Carbazole	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Dibutyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	N	mg/kg	0.01	0.10	0.29	0.23
Pyrene	N	mg/kg	0.01	0.09	0.28	0.22
Butyl benzyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Bis-2-ethylhexyladipate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Diisooctyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Benzo(a)anthracene	N	mg/kg	0.01	0.03	0.13	0.11
Chrysene	N	mg/kg	0.01	0.05	0.16	0.13
Bis(2-ethylhexyl)phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	N	mg/kg	0.01	0.04	0.18	0.17
Benzo(k)fluoranthene	N	mg/kg	0.01	0.05	0.13	0.14
Benzo(a)pyrene	N	mg/kg	0.01	0.05	0.16	0.13
Indeno(1,2,3-cd)pyrene	N	mg/kg	0.01	0.03	0.11	0.07
Dibenzo(a,h)anthracene	N	mg/kg	0.01	0.01	0.03	0.03
Benzo[g,h,i]perylene	N	mg/kg	0.01	0.03	0.11	0.08

Results Summary

Report No.: 22-44274, issue number 1

WAC Analysis

Elab Ref:	299658					Landfill Waste Acceptance Criteria Limits*		
Sample Date:	25/10/2022					Inert Waste Landfill	Stable Non-reactive Hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:	I3. 1							
Depth (m)								
Site:	River Academy							
Determinand		Code	Units					
Total Organic Carbon		N	%		1.00	3	5	6
Loss on Ignition		M	%		5.3	--	--	10
Total BTEX		M	mg/kg		< 0.01	6	--	--
Total PCBs (7 congeners)		M	mg/kg		< 0.03	1	--	--
TPH Total WAC (EH_CU_1D_Total)		N	mg/kg		< 5	500	--	--
Total (of 17) PAHs		N	mg/kg		< 2	100	--	--
pH		M			8.5	--	>6	--
Acid Neutralisation Capacity		N	mol/kg		< 0.1	--	To evaluate	To evaluate

Eluate Analysis

			10:1	10:1	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg		
			mg/l	mg/kg			
Arsenic		N	< 0.005	< 0.05	0.5	2	25
Barium		N	< 0.005	< 0.05	20	100	300
Cadmium		N	< 0.001	< 0.01	0.04	1	5
Chromium		N	< 0.005	< 0.05	0.5	10	70
Copper		N	< 0.005	< 0.05	2	50	100
Mercury		N	< 0.005	< 0.01	0.01	0.2	2
Molybdenum		N	< 0.005	< 0.05	0.5	10	30
Nickel		N	< 0.001	< 0.05	0.4	10	40
Lead		N	< 0.001	< 0.05	0.5	10	50
Antimony		N	< 0.005	< 0.05	0.06	0.7	5
Selenium		N	< 0.005	< 0.05	0.1	0.5	7
Zinc		N	< 0.005	< 0.05	4	50	200
Chloride		N	< 5	< 50	800	15000	25000
Fluoride		N	< 5	< 10	10	150	500
Sulphate		N	1	11.50	1000	20000	50000
Total Dissolved Solids		N	50	498.00	4000	60000	100000
Phenol Index		N	< 0.01	< 0.10	1	-	-
Dissolved Organic Carbon		N	7.660	77.00	500	800	1000

Leach Test Information

pH		N	8.6				
Conductivity (uS/cm)		N	74				
Dry mass of test portion (g)			103.000				
Dry Matter (%)			85				
Moisture (%)			17				
Eluent Volume (ml)			992				

Results are expressed on a dry weight basis, after correction for moisture content where applicable

* Stated limits are for guidance only, and not for conformity assessment.



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Results Summary

Report No.: 22-44274, issue number 1

Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #) in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos Identification	Gravimetric Analysis Total (%)	Gravimetric Analysis by ACM Type (%)	Free Fibre Analysis (%)	Total Asbestos (%)
299654		G3. 1	Brown sandy soil, stones, brick, clinker, organics	No asbestos detected	n/t	n/t	n/t	n/t
299655		G3. 1.2	Brown sandy soil, stones, ceramics, glass, organics	No asbestos detected	n/t	n/t	n/t	n/t
299656		H3. 1	Brown sandy soil, stones, clinker, organics	No asbestos detected	n/t	n/t	n/t	n/t
299657		H3. 1.2	Brown sandy soil, stones, organics	No asbestos detected	n/t	n/t	n/t	n/t
299658		I3. 1	Brown sandy soil, stones, brick, clinker, organics	No asbestos detected	n/t	n/t	n/t	n/t
299659		I3. 1.2	Brown sandy soil, stones, organics	No asbestos detected	n/t	n/t	n/t	n/t
299660		J3. 1	Brown sandy soil, stones, clinker, organics	No asbestos detected	n/t	n/t	n/t	n/t
299661		J3. 1.2	Brown sandy soil, stones, brick, organics	No asbestos detected	n/t	n/t	n/t	n/t
299662		A4. 1	Brown sandy soil, stones, clinker, glass, organics	No asbestos detected	n/t	n/t	n/t	n/t
299663		A4. 1.2	Brown sandy soil, stones, clinker, organics	No asbestos detected	n/t	n/t	n/t	n/t
299664		B4. 1	Brown sandy soil, stones, glass, organics	No asbestos detected	n/t	n/t	n/t	n/t
299665		B4. 1.2	Brown sandy soil, stones, organics	No asbestos detected	n/t	n/t	n/t	n/t
299666		C4. 1	Brown sandy soil, stones, clinker, organics	No asbestos detected	n/t	n/t	n/t	n/t
299667		C4. 1.2	Brown sandy soil, stones, glass, plastic, organics	No asbestos detected	n/t	n/t	n/t	n/t
299668		D4. 1	Brown sandy soil, stones, brick, clinker, glass, organics	No asbestos detected	n/t	n/t	n/t	n/t
299669		D4. 1.2	Brown sandy soil, stones, brick, clinker, organics	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

Report No.: 22-44274, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
SVOC in solids	N	As submitted sample	31/10/2022		GC-MS
Phenols in solids	M	As submitted sample	31/10/2022	121	HPLC
SVOC in solids	N	As submitted sample	31/10/2022	167	GC-MS
Low range Aliphatic hydrocarbons soil	N	As submitted sample	01/11/2022	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	01/11/2022	181	GC-MS
Total cyanide	M	As submitted sample	01/11/2022	204	Colorimetry
Basic carbon banding in soil	N	As submitted sample	31/10/2022	218	GC-FID
TPH CWG soil by gc-gc	M	As submitted sample	31/10/2022	271	
Asbestos identification	U	Air dried sample	02/11/2022	280	Microscopy
Aqua regia extractable metals	M	Air dried sample	01/11/2022	300	ICPMS
Leachate					
Arsenic	N		02/11/2022	301	ICPMS
Cadmium	N		02/11/2022	301	ICPMS
Chromium	N		02/11/2022	301	ICPMS
Lead	N		02/11/2022	301	ICPMS
Nickel	N		02/11/2022	301	ICPMS
Copper	N		02/11/2022	301	ICPMS
Zinc	N		02/11/2022	301	ICPMS
Mercury	N		02/11/2022	301	ICPMS
Selenium	N		02/11/2022	301	ICPMS
Antimony	N		02/11/2022	301	ICPMS
Barium	N		02/11/2022	301	ICPMS
Molybdenum	N		02/11/2022	301	ICPMS
pH Value	N		02/11/2022	113	Electrometric
Electrical Conductivity	N		02/11/2022	136	Probe
Dissolved Organic Carbon	N		02/11/2022	102	TOC analyser
Chloride	N		02/11/2022	131	Ion Chromatography
Fluoride	N		02/11/2022	131	Ion Chromatography
Sulphate	N		02/11/2022	131	Ion Chromatography
Total Dissolved Solids	N		02/11/2022	144	Gravimetric
Phenol index	N		02/11/2022	121	HPLC
WAC Solids analysis					
pH	M	Air dried sample	02/11/2022	113	Electrometric
Total Organic Carbon	N	Air dried sample	01/11/2022	210	IR
Loss on Ignition	M	Air dried sample	02/11/2022	129	Gravimetric
Acid Neutralisation Capacity	N	Air dried sample	02/11/2022	NEN 737	Electrometric
Total BTEX	M	As submitted sample	01/11/2022	181	GCMS
Mineral Oil (EH_CU_1D_Total)	N	As submitted sample	01/11/2022	117	GCFID
Total PCBs (7 congeners)	M	Air dried sample	01/11/2022	120	GCMS
Total (of 17) PAHs	N	As submitted sample	03/11/2022	133	GCFID

Tests marked N are not UKAS accredited

Report Information

Report No.: 22-44274, issue number 1

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"
LOD	LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination. Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed. ELAB are unable to provide an interpretation or opinion on the content of this report. The results relate only to the sample received. PCB congener results may include any coeluting PCBs Uncertainty of measurement for the determinands tested are available upon request Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Deviation Codes

a	No date of sampling supplied
b	No time of sampling supplied (Waters Only)
c	Sample not received in appropriate containers
d	Sample not received in cooled condition
e	The container has been incorrectly filled
f	Sample age exceeds stability time (sampling to receipt)
g	Sample age exceeds stability time (sampling to analysis)

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month
 All water samples will be retained for 7 days following the date of the test report
 Charges may apply to extended sample storage

TPH Classification - HWOL Acronym System

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



2683



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THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 22-44275

Issue: 2. Replaces Analytical Report number 22-44275; issue no.1

Date of Issue: 07/11/2022

Contact: Rick Willemse

Customer Details: Toureen Contractors Ltd
25 Cecil Road
Harrow
Middlesex HA3 5QY

Quotation No: Q22-03340

Order No: TCL1121

Customer Reference: Not Supplied

Date Received: 27/10/2022

Date Approved: 07/11/2022

Details: River Academy

Approved by:

Mike Varley, General Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

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Sample Summary

Report No.: 22-44275, issue number 2

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
299670	E4. 1	25/10/2022	27/10/2022	Silty loam	
299671	E4. 1.2	25/10/2022	27/10/2022		
299672	F4. 1	25/10/2022	27/10/2022	Silty loam	
299673	F4. 1.2	25/10/2022	27/10/2022		
299674	G4. 1	25/10/2022	27/10/2022	Silty loam	
299675	G4. 1.2	25/10/2022	27/10/2022		
299676	H4. 1	25/10/2022	27/10/2022	Sandy silty loam	
299677	H4. 1.2	25/10/2022	27/10/2022		
299678	I4. 1	25/10/2022	27/10/2022	Sandy silty loam	
299679	I4. 1.2	25/10/2022	27/10/2022		
299680	J4. 1	25/10/2022	27/10/2022	Silty loam	
299681	J4. 1.2	25/10/2022	27/10/2022		
299682	K4. 1	25/10/2022	27/10/2022	Sandy silty loam	
299683	K4. 1.2	25/10/2022	27/10/2022		
299684	L4. 1	25/10/2022	27/10/2022	Sandy silty loam	
299685	L4. 1.2	25/10/2022	27/10/2022		



Results Summary

2683

Report No.: 22-44275, issue number 2

ELAB Reference	299670	299672	299674	299676	299678	299680	299682	299684
Customer Reference								
Sample ID								
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	E4. 1	F4. 1	G4. 1	H4. 1	I4. 1	J4. 1	K4. 1	L4. 1
Sample Depth (m)								
Sampling Date	25/10/2022	25/10/2022	25/10/2022	25/10/2022	25/10/2022	25/10/2022	25/10/2022	25/10/2022

Determinand	Codes	Units	LOD								
Soil sample preparation parameters											
Moisture Content	N	%	0.1	19.9	15.5	17.7	13.4	15.5	16.9	9.6	10.4
Material removed	N	%	0.1	22.9	28.0	28.0	24.7	23.9	20.9	28.1	23.4
Description of Inert material removed	N		0	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Metals											
Arsenic	M	mg/kg	0.5	25.4	20.2	17.7	25.2	21.2	23.8	27.6	34.0
Cadmium	M	mg/kg	0.2	0.4	0.6	0.4	0.4	0.4	0.5	0.3	0.3
Chromium	M	mg/kg	1	38.8	36.0	36.3	40.2	33.5	34.1	35.3	47.6
Copper	M	mg/kg	4	37.2	61.6	43.2	28.6	27.6	35.6	24.5	23.6
Lead	M	mg/kg	1	99.2	131	95.3	308	70.8	85.9	46.3	53.0
Mercury	M	mg/kg	0.1	0.3	0.5	0.4	0.5	0.3	0.3	0.1	0.1
Nickel	M	mg/kg	1	29.7	29.1	24.8	30.6	27.1	26.5	30.0	37.0
Selenium	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.6
Vanadium	M	mg/kg	0.5	57.6	46.9	42.3	55.3	49.4	52.5	51.9	71.3
Zinc	M	mg/kg	4.5	157	228	154	105	104	110	110	108



Results Summary

2683

Report No.: 22-44275, issue number 2

ELAB Reference	299670	299672	299674	299676	299678	299680	299682	299684
Customer Reference								
Sample ID								
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	E4. 1	F4. 1	G4. 1	H4. 1	I4. 1	J4. 1	K4. 1	L4. 1
Sample Depth (m)								
Sampling Date	25/10/2022	25/10/2022	25/10/2022	25/10/2022	25/10/2022	25/10/2022	25/10/2022	25/10/2022

Determinand	Codes	Units	LOD								
Inorganics											
Total Cyanide	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Miscellaneous											
pH	M	pH units	0.1	8.0	8.2	8.2	8.5	8.3	8.2	8.2	8.2
Phenols											
Phenol	M	mg/kg	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
M,P-Cresol	N	mg/kg	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
O-Cresol	N	mg/kg	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
3,4-Dimethylphenol	N	mg/kg	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,3-Dimethylphenol	M	mg/kg	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,3,5-trimethylphenol	M	mg/kg	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Total Monohydric Phenols	N	mg/kg	5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5



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Results Summary

Report No.: 22-44275, issue number 2

ELAB Reference	299670	299672	299674	299676	299678	299680	299682	299684
Customer Reference								
Sample ID								
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	E4. 1	F4. 1	G4. 1	H4. 1	I4. 1	J4. 1	K4. 1	L4. 1
Sample Depth (m)								
Sampling Date	25/10/2022	25/10/2022	25/10/2022	25/10/2022	25/10/2022	25/10/2022	25/10/2022	25/10/2022

Determinand	Codes	Units	LOD								
BTEX											
Benzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Toluene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Ethylbenzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Xylenes	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
MTBE	U	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
TPH CWG											
>C5-C6 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C6-C8 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aliphatic (HS_1D_MS+EH_2D_AL)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C10-C12 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C12-C16 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C16-C21 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C21-C35 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	3.9	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C35-C40 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	1.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total aliphatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AL)	N	mg/kg	1	< 1.0	6.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C5-C7 Aromatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C7-C8 Aromatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aromatic (HS_1D_MS+EH_2D_AR)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C10-C12 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C12-C16 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C16-C21 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.1	< 1.0	< 1.0
>C21-C35 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	12.7	3.2	< 1.0	1.2	5.3	< 1.0	< 1.0
>C35-C40 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	4.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total aromatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AR)	N	mg/kg	1	< 1.0	19.8	4.8	1.3	1.8	7.7	< 1.0	< 1.0
Total petroleum hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_Total)	N	mg/kg	1	< 1.0	26.4	5.6	1.6	1.9	8.6	< 1.0	< 1.0

Results Summary

Report No.: 22-44275, issue number 2

ELAB Reference				299670	299672	299674	299676	299678	299680
Customer Reference									
Sample ID									
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				E4. 1	F4. 1	G4. 1	H4. 1	I4. 1	J4. 1
Sample Depth (m)									
Sampling Date				25/10/2022	25/10/2022	25/10/2022	25/10/2022	25/10/2022	25/10/2022
Determinand	Codes	Units	LOD						
Organics									
Coal tar	N	%	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
SVOC									
Phenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bis(2-chloroethyl)ether	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Chlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,3-Dichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,4-Dichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzyl Alcohol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-Dichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Methylphenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bis(2-chloroisopropyl)ether	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
3 and 4-methylphenol	N	mg/kg	0.01	< 0.01	0.01	< 0.01	< 0.01	0.01	< 0.01
N-Nitrosodi-n-propylamine	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachloroethane	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Nitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Isophorone	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Nitrophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-Dimethylphenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bis(2-chloroethoxy)methane	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-Dichlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,3,5-Trichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Naphthalene	N	mg/kg	0.01	0.08	0.03	0.02	0.01	0.04	0.03
3-Chloroaniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachloro-1,3-butadiene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
4-Chloro-3-methylphenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Methylnaphthalene	N	mg/kg	0.01	0.02	0.02	0.01	< 0.01	0.02	0.01
1-Methylnaphthalene	N	mg/kg	0.01	0.02	0.01	< 0.01	< 0.01	0.02	< 0.01
Hexachlorocyclopentadiene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4,6-Trichlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4,5-Trichlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1-Chloronaphthalene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Nitroaniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,4-Dinitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dimethyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1-3-dinitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-6-dinitrotoluene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthylene	N	mg/kg	0.01	0.01	0.06	0.04	0.02	0.11	0.07
1,2-Dinitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
3-Nitroaniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	N	mg/kg	0.01	< 0.01	0.01	< 0.01	0.01	0.04	< 0.01
4-nitrophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenzofuran	N	mg/kg	0.01	< 0.01	0.01	< 0.01	< 0.01	0.04	< 0.01
2,3,5,6-Tetrachlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,3,4,6-Tetrachlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Diethyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1-chloro-4-phenoxybenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	N	mg/kg	0.01	< 0.01	0.01	< 0.01	0.01	0.07	< 0.01
4-Nitroaniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dinitro-o-cresol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Diphenylamine	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Azobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1-bromo-4-phenoxybenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

Tests marked N are not UKAS accredited.

Results Summary

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Report No.: 22-44275, issue number 2

ELAB Reference				299670	299672	299674	299676	299678	299680
Customer Reference									
Sample ID									
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				E4. 1	F4. 1	G4. 1	H4. 1	I4. 1	J4. 1
Sample Depth (m)									
Sampling Date				25/10/2022	25/10/2022	25/10/2022	25/10/2022	25/10/2022	25/10/2022
Determinand	Codes	Units	LOD						
Organics									
Hexachlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Pentachlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	N	mg/kg	0.01	0.05	0.24	0.13	0.16	0.96	0.21
Anthracene	N	mg/kg	0.01	0.01	0.06	0.04	0.04	0.16	0.06
Carbazole	N	mg/kg	0.01	< 0.01	0.02	0.01	< 0.01	0.06	0.02
Dibutyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	N	mg/kg	0.01	0.15	0.74	0.59	0.48	1.76	0.96
Pyrene	N	mg/kg	0.01	0.14	0.69	0.55	0.44	1.57	0.88
Butyl benzyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bis-2-ethylhexyladipate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Diisooctyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)anthracene	N	mg/kg	0.01	0.06	0.36	0.33	0.24	0.73	0.48
Chrysene	N	mg/kg	0.01	0.09	0.39	0.34	0.22	0.70	0.50
Bis(2-ethylhexyl)phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	N	mg/kg	0.01	0.10	0.42	0.45	0.16	0.63	0.45
Benzo(k)fluoranthene	N	mg/kg	0.01	0.09	0.34	0.38	0.23	0.55	0.55
Benzo(a)pyrene	N	mg/kg	0.01	0.10	0.40	0.38	0.22	0.66	0.46
Indeno(1,2,3-cd)pyrene	N	mg/kg	0.01	0.06	0.24	0.25	0.15	0.45	0.34
Dibenzo(a,h)anthracene	N	mg/kg	0.01	0.02	0.09	0.10	0.05	0.16	0.13
Benzo[g,h,i]perylene	N	mg/kg	0.01	0.07	0.30	0.29	0.15	0.47	0.38

Results Summary

Report No.: 22-44275, issue number 2

ELAB Reference	299682	299684
Customer Reference		
Sample ID		
Sample Type	SOIL	SOIL
Sample Location	K4. 1	L4. 1
Sample Depth (m)		
Sampling Date	25/10/2022	25/10/2022

Determinand	Codes	Units	LOD		
Organics					
Coal tar	N	%	0.01	< 0.01	< 0.01
SVOC					
Phenol	N	mg/kg	0.01	< 0.01	< 0.01
Aniline	N	mg/kg	0.01	< 0.01	< 0.01
Bis(2-chloroethyl)ether	N	mg/kg	0.01	< 0.01	< 0.01
2-Chlorophenol	N	mg/kg	0.01	< 0.01	< 0.01
1,3-Dichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01
1,4-Dichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01
Benzyl Alcohol	N	mg/kg	0.01	< 0.01	< 0.01
1,2-Dichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01
2-Methylphenol	N	mg/kg	0.01	< 0.01	< 0.01
Bis(2-chloroisopropyl)ether	N	mg/kg	0.01	< 0.01	< 0.01
3 and 4-methylphenol	N	mg/kg	0.01	< 0.01	< 0.01
N-Nitrosodi-n-propylamine	N	mg/kg	0.01	< 0.01	< 0.01
Hexachloroethane	N	mg/kg	0.01	< 0.01	< 0.01
Nitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01
Isophorone	N	mg/kg	0.01	< 0.01	< 0.01
2-Nitrophenol	N	mg/kg	0.01	< 0.01	< 0.01
2,4-Dimethylphenol	N	mg/kg	0.01	< 0.01	< 0.01
Bis(2-chloroethoxy)methane	N	mg/kg	0.01	< 0.01	< 0.01
2,4-Dichlorophenol	N	mg/kg	0.01	< 0.01	< 0.01
1,3,5-Trichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01
Naphthalene	N	mg/kg	0.01	< 0.01	< 0.01
3-Chloroaniline	N	mg/kg	0.01	< 0.01	< 0.01
Hexachloro-1,3-butadiene	N	mg/kg	0.01	< 0.01	< 0.01
4-Chloro-3-methylphenol	N	mg/kg	0.01	< 0.01	< 0.01
2-Methylnaphthalene	N	mg/kg	0.01	< 0.01	< 0.01
1-Methylnaphthalene	N	mg/kg	0.01	< 0.01	< 0.01
Hexachlorocyclopentadiene	N	mg/kg	0.01	< 0.01	< 0.01
2,4,6-Trichlorophenol	N	mg/kg	0.01	< 0.01	< 0.01
2,4,5-Trichlorophenol	N	mg/kg	0.01	< 0.01	< 0.01
1-Chloronaphthalene	N	mg/kg	0.01	< 0.01	< 0.01
2-Nitroaniline	N	mg/kg	0.01	< 0.01	< 0.01
1,4-Dinitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01
Dimethyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01
1-3-dinitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01
2-6-dinitrotoluene	N	mg/kg	0.01	< 0.01	< 0.01
Acenaphthylene	N	mg/kg	0.01	< 0.01	< 0.01
1,2-Dinitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01
3-Nitroaniline	N	mg/kg	0.01	< 0.01	< 0.01
Acenaphthene	N	mg/kg	0.01	< 0.01	< 0.01
4-nitrophenol	N	mg/kg	0.01	< 0.01	< 0.01
Dibenzofuran	N	mg/kg	0.01	< 0.01	< 0.01
2,3,5,6-Tetrachlorophenol	N	mg/kg	0.01	< 0.01	< 0.01
2,3,4,6-Tetrachlorophenol	N	mg/kg	0.01	< 0.01	< 0.01
Diethyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01
1-chloro-4-phenoxybenzene	N	mg/kg	0.01	< 0.01	< 0.01
Fluorene	N	mg/kg	0.01	< 0.01	< 0.01
4-Nitroaniline	N	mg/kg	0.01	< 0.01	< 0.01
Dinitro-o-cresol	N	mg/kg	0.01	< 0.01	< 0.01
Diphenylamine	N	mg/kg	0.01	< 0.01	< 0.01
Azobenzene	N	mg/kg	0.01	< 0.01	< 0.01
1-bromo-4-phenoxybenzene	N	mg/kg	0.01	< 0.01	< 0.01

Tests marked N are not UKAS accredited.



Results Summary

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Report No.: 22-44275, issue number 2

ELAB Reference	299682	299684
Customer Reference		
Sample ID		
Sample Type	SOIL	SOIL
Sample Location	K4. 1	L4. 1
Sample Depth (m)		
Sampling Date	25/10/2022	25/10/2022

Determinand	Codes	Units	LOD		
Organics					
Hexachlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01
Pentachlorophenol	N	mg/kg	0.01	< 0.01	< 0.01
Phenanthrene	N	mg/kg	0.01	0.01	0.03
Anthracene	N	mg/kg	0.01	< 0.01	< 0.01
Carbazole	N	mg/kg	0.01	< 0.01	< 0.01
Dibutyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01
Fluoranthene	N	mg/kg	0.01	0.03	0.08
Pyrene	N	mg/kg	0.01	0.03	0.08
Butyl benzyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01
Bis-2-ethylhexyladipate	N	mg/kg	0.01	< 0.01	< 0.01
Diisooctyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01
Benzo(a)anthracene	N	mg/kg	0.01	0.02	0.04
Chrysene	N	mg/kg	0.01	0.02	0.04
Bis(2-ethylhexyl)phthalate	N	mg/kg	0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	N	mg/kg	0.01	0.02	0.05
Benzo(k)fluoranthene	N	mg/kg	0.01	0.02	0.04
Benzo(a)pyrene	N	mg/kg	0.01	0.02	0.05
Indeno(1,2,3-cd)pyrene	N	mg/kg	0.01	0.01	0.03
Dibenzo(a,h)anthracene	N	mg/kg	0.01	< 0.01	< 0.01
Benzo[g,h,i]perylene	N	mg/kg	0.01	0.02	0.04



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Results Summary

Report No.: 22-44275, issue number 2

Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #) in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos Identification	Gravimetric Analysis Total (%)	Gravimetric Analysis by ACM Type (%)	Free Fibre Analysis (%)	Total Asbestos (%)
299670		E4. 1	Brown Sandy Soil,Stones,Synthetic Fibres,Organic	No asbestos detected	n/t	n/t	n/t	n/t
299671		E4. 1.2	Brown Sandy oil,Stones,Organic	No asbestos detected	n/t	n/t	n/t	n/t
299672		F4. 1	Brown sandy Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
299673		F4. 1.2	Brown Sandy soil,Stones,Organiic,Glass,Clinker	No asbestos detected	n/t	n/t	n/t	n/t
299674		G4. 1	Brown sandy Soil,Stones,Brick,Clinker	No asbestos detected	n/t	n/t	n/t	n/t
299675		G4. 1.2	Brown sandy Soil,Stones,Organic	No asbestos detected	n/t	n/t	n/t	n/t
299676		H4. 1	Brown sandy Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
299677		H4. 1.2	Brown sandy Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
299678		I4. 1	Brown sandy Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
299679		I4. 1.2	Brown sandy Soil,Stones,Organic	No asbestos detected	n/t	n/t	n/t	n/t
299680		J4. 1	Brown Sandy Soil,Stones,Clinker	No asbestos detected	n/t	n/t	n/t	n/t
299681		J4. 1.2	Brown sandy Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
299682		K4. 1	Brown sandy Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
299683		K4. 1.2	Brown sandy Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
299684		L4. 1	Brown sandy Soil,Stones,Organic	No asbestos detected	n/t	n/t	n/t	n/t
299685		L4. 1.2	Brown sandy Soil,Stones,Brick	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

Report No.: 22-44275, issue number 2

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
SVOC in solids	N	As submitted sample	31/10/2022		GC-MS
pH	M	Air dried sample	02/11/2022	113	Electromeric
Phenols in solids	M	As submitted sample	31/10/2022	121	HPLC
SVOC in solids	N	As submitted sample	31/10/2022	167	GC-MS
Low range Aliphatic hydrocarbons soil	N	As submitted sample	04/11/2022	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	03/11/2022	181	GC-MS
BTEX in solids	M	As submitted sample	01/11/2022	181A	GC-MS
Total cyanide	M	As submitted sample	01/11/2022	204	Colorimetry
Basic carbon banding in soil	N	As submitted sample	31/10/2022	218	GC-FID
TPH CWG soil by gc-gc	M	As submitted sample	04/11/2022	271	
Asbestos identification	U	Air dried sample	02/11/2022	280	Microscopy
Aqua regia extractable metals	M	Air dried sample	01/11/2022	300	ICPMS

Tests marked N are not UKAS accredited

Report Information

Report No.: 22-44275, issue number 2

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"
LOD	LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination. Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed. ELAB are unable to provide an interpretation or opinion on the content of this report. The results relate only to the sample received. PCB congener results may include any coeluting PCBs Uncertainty of measurement for the determinands tested are available upon request Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Deviation Codes

a	No date of sampling supplied
b	No time of sampling supplied (Waters Only)
c	Sample not received in appropriate containers
d	Sample not received in cooled condition
e	The container has been incorrectly filled
f	Sample age exceeds stability time (sampling to receipt)
g	Sample age exceeds stability time (sampling to analysis)

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month

All water samples will be retained for 7 days following the date of the test report

Charges may apply to extended sample storage

TPH Classification - HWOL Acronym System

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



2683



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THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 22-44276

Issue: 2. Replaces Analytical Report number 22-44276; issue no.1

Date of Issue: 07/11/2022

Contact: Rick Willemse

Customer Details: Toureen Contractors Ltd
25 Cecil Road
Harrow
Middlesex HA3 5QY

Quotation No: Q22-03340

Order No: TCL1121

Customer Reference: Not Supplied

Date Received: 27/10/2022

Date Approved: 07/11/2022

Details: River Academy

Approved by:

Mike Varley, General Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

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Sample Summary

Report No.: 22-44276, issue number 2

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
299686	A5. 1	25/10/2022	27/10/2022	Sandy silty loam	
299687	A5. 1.2	25/10/2022	27/10/2022		
299688	B5. 1	25/10/2022	27/10/2022	Sandy silty loam	
299689	B5. 1.2	25/10/2022	27/10/2022		
299690	C5. 1	25/10/2022	27/10/2022	Sandy silty loam	
299691	C5. 1.2	25/10/2022	27/10/2022		
299692	D5. 1	25/10/2022	27/10/2022	Sandy silty loam	
299693	D5. 1.2	25/10/2022	27/10/2022		
299694	E5. 1	25/10/2022	27/10/2022	Sandy silty loam	
299695	E5. 1.2	25/10/2022	27/10/2022		
299696	F5. 1	25/10/2022	27/10/2022	Silty loam	
299697	F5. 1.2	25/10/2022	27/10/2022		
299698	G5. 1	25/10/2022	27/10/2022	Sandy silty loam	
299699	G5. 1.2	25/10/2022	27/10/2022		
299700	H5. 1	25/10/2022	27/10/2022	Silty loam	
299701	H5. 1.2	25/10/2022	27/10/2022		



Results Summary

Report No.: 22-44276, issue number 2

ELAB Reference			299686	299688	299690	299692	299694	299696	299698	299700
Customer Reference										
Sample ID										
Sample Type			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location			A5. 1	B5. 1	C5. 1	D5. 1	E5. 1	F5. 1	G5. 1	H5. 1
Sample Depth (m)										
Sampling Date			25/10/2022	25/10/2022	25/10/2022	25/10/2022	25/10/2022	25/10/2022	25/10/2022	25/10/2022
ns	Units	LOD								
	%	0.1	14.8	15.1	17.5	14.1	15.3	14.1	14.9	11.2
	%	0.1	< 0.1	16.9	16.9	22.0	16.3	14.2	22.6	29.3
		0	None	Stones	Stones	Stones	Stones	Stones	Stones	Stones
	mg/kg	0.5	32.8	29.3	26.3	28.7	30.4	25.3	28.0	24.0
	mg/kg	0.2	0.5	0.4	0.4	0.3	0.3	0.4	0.6	0.5
	mg/kg	1	41.9	40.7	36.7	41.3	44.6	36.2	46.0	39.2
	mg/kg	4	41.1	35.0	30.1	23.6	31.9	35.0	52.8	44.2
	mg/kg	1	92.0	81.3	73.7	54.2	72.1	114	122	104
	mg/kg	0.1	0.3	0.3	0.3	0.2	0.2	0.4	0.3	0.3
	mg/kg	1	35.4	35.0	29.4	33.2	34.3	29.9	35.5	31.8
	mg/kg	1	1.0	1.1	< 1.0	< 1.0	< 1.0	< 1.0	1.2	< 1.0
	mg/kg	0.5	64.9	65.1	56.7	61.7	69.2	53.8	63.2	53.7
	mg/kg	4.5	132	136	119	89.1	129	125	191	187
	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	mol/kg	0.1	n/t	n/t	< 0.1	n/t	n/t	n/t	< 0.1	n/t
	%	0.01	n/t	n/t	< 0.01	n/t	n/t	n/t	6.34	n/t
	pH units	0.1	8.1	8.2	8.0	8.1	7.3	7.8	7.9	8.0
	%	0.01	n/t	n/t	2.2	n/t	n/t	n/t	1.9	n/t



Results Summary

Report No.: 22-44276, issue number 2

ELAB Reference	299686	299688	299690	299692	299694	299696	299698	299700
Customer Reference								
Sample ID								
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	A5. 1	B5. 1	C5. 1	D5. 1	E5. 1	F5. 1	G5. 1	H5. 1
Sample Depth (m)								
Sampling Date	25/10/2022	25/10/2022	25/10/2022	25/10/2022	25/10/2022	25/10/2022	25/10/2022	25/10/2022
Determinand	Codes	Units	LOD					
Phenols								
Phenol	M	mg/kg	1	< 1	< 1	< 1	< 1	< 1
M,P-Cresol	N	mg/kg	1	< 1	< 1	< 1	< 1	< 1
O-Cresol	N	mg/kg	1	< 1	< 1	< 1	< 1	< 1
3,4-Dimethylphenol	N	mg/kg	1	< 1	< 1	< 1	< 1	< 1
2,3-Dimethylphenol	M	mg/kg	1	< 1	< 1	< 1	< 1	< 1
2,3,5-trimethylphenol	M	mg/kg	1	< 1	< 1	< 1	< 1	< 1
Total Monohydric Phenols	N	mg/kg	5	< 5	< 5	< 5	< 5	< 5
Polyaromatic hydrocarbons								
Naphthalene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t	n/t
Acenaphthylene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t	n/t
Acenaphthene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t	n/t
Fluorene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t	n/t
Phenanthrene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t	n/t
Anthracene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t	n/t
Fluoranthene	M	mg/kg	0.1	n/t	n/t	0.2	n/t	n/t
Pyrene	M	mg/kg	0.1	n/t	n/t	0.1	n/t	n/t
Benzo(a)anthracene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t	n/t
Chrysene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t	n/t
Benzo(b)fluoranthene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t	n/t
Benzo(k)fluoranthene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t	n/t
Benzo(a)pyrene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t	n/t
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t	n/t
Dibenzo(a,h)anthracene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t	n/t
Benzo[g,h,i]perylene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t	n/t
Total PAH(16)	M	mg/kg	0.4	n/t	n/t	0.5	n/t	n/t
Total (of 17) PAHs	N	mg/kg	2	n/t	n/t	< 2	n/t	n/t



Results Summary

Report No.: 22-44276, issue number 2

ELAB Reference	299686	299688	299690	299692	299694	299696	299698	299700
Customer Reference								
Sample ID								
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	A5. 1	B5. 1	C5. 1	D5. 1	E5. 1	F5. 1	G5. 1	H5. 1
Sample Depth (m)								
Sampling Date	25/10/2022	25/10/2022	25/10/2022	25/10/2022	25/10/2022	25/10/2022	25/10/2022	25/10/2022
Determinand	Codes	Units	LOD					
BTEX								
Benzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Toluene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Ethylbenzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Xylenes	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
MTBE	U	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Total BTEX	N	mg/kg	0.01	n/t	n/t	< 0.01	n/t	n/t
TPH CWG								
>C5-C6 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C6-C8 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aliphatic (HS_1D_MS+EH_2D_AL)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C10-C12 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C12-C16 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C16-C21 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C21-C35 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C35-C40 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total aliphatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AL)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C5-C7 Aromatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C7-C8 Aromatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aromatic (HS_1D_MS+EH_2D_AR)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C10-C12 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C12-C16 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C16-C21 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C21-C35 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	1.3
>C35-C40 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total aromatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AR)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	1.0	1.7
Total petroleum hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_Total)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	1.2	2.0
Total Petroleum Hydrocarbons								
Mineral Oil w Florisil (EH_CU_1D_Total)	N	mg/kg	5	n/t	n/t	7	n/t	9
PCB (ICES 7 congeners)								
Total PCBs (7 congeners)	M	mg/kg	0.03	n/t	n/t	< 0.03	n/t	< 0.03

Tests marked N are not UKAS accredited.

The Environmental Laboratory Ltd. Reg. No. 3882193



Results Summary

2683

Report No.: 22-44276, issue number 2

ELAB Reference				299686	299688	299690	299692	299694	299696
Customer Reference									
Sample ID									
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				A5. 1	B5. 1	C5. 1	D5. 1	E5. 1	F5. 1
Sample Depth (m)									
Sampling Date				25/10/2022	25/10/2022	25/10/2022	25/10/2022	25/10/2022	25/10/2022
Determinand	Codes	Units	LOD						
Organics									
Coal tar	N	%	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
SVOC									
Phenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bis(2-chloroethyl)ether	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Chlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,3-Dichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,4-Dichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzyl Alcohol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-Dichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Methylphenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bis(2-chloroisopropyl)ether	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
3 and 4-methylphenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
N-Nitrosodi-n-propylamine	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachloroethane	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Nitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Isophorone	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Nitrophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-Dimethylphenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bis(2-chloroethoxy)methane	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-Dichlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,3,5-Trichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Naphthalene	N	mg/kg	0.01	< 0.01	< 0.01	0.02	< 0.01	0.01	0.01
3-Chloroaniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachloro-1,3-butadiene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
4-Chloro-3-methylphenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Methylnaphthalene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1-Methylnaphthalene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachlorocyclopentadiene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4,6-Trichlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4,5-Trichlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1-Chloronaphthalene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Nitroaniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,4-Dinitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dimethyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1-3-dinitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-6-dinitrotoluene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthylene	N	mg/kg	0.01	0.01	0.01	0.08	< 0.01	0.02	0.04
1,2-Dinitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
3-Nitroaniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	N	mg/kg	0.01	< 0.01	< 0.01	0.05	< 0.01	< 0.01	< 0.01
4-nitrophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenzofuran	N	mg/kg	0.01	< 0.01	< 0.01	0.06	< 0.01	< 0.01	< 0.01
2,3,5,6-Tetrachlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,3,4,6-Tetrachlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Diethyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1-chloro-4-phenoxybenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	N	mg/kg	0.01	< 0.01	< 0.01	0.11	< 0.01	< 0.01	< 0.01
4-Nitroaniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dinitro-o-cresol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Diphenylamine	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Azobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1-bromo-4-phenoxybenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

Tests marked N are not UKAS accredited.

Results Summary

Report No.: 22-44276, issue number 2

ELAB Reference	299686	299688	299690	299692	299694	299696
Customer Reference						
Sample ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	A5. 1	B5. 1	C5. 1	D5. 1	E5. 1	F5. 1
Sample Depth (m)						
Sampling Date	25/10/2022	25/10/2022	25/10/2022	25/10/2022	25/10/2022	25/10/2022
Determinand	Codes	Units	LOD			
Organics						
Hexachlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Pentachlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	N	mg/kg	0.01	0.06	0.03	1.60
Anthracene	N	mg/kg	0.01	0.02	< 0.01	0.38
Carbazole	N	mg/kg	0.01	< 0.01	< 0.01	0.25
Dibutyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	N	mg/kg	0.01	0.26	0.13	2.58
Pyrene	N	mg/kg	0.01	0.22	0.12	1.90
Butyl benzyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Bis-2-ethylhexyladipate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Diisooctyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Benzo(a)anthracene	N	mg/kg	0.01	0.15	0.07	0.95
Chrysene	N	mg/kg	0.01	0.16	0.06	0.84
Bis(2-ethylhexyl)phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	N	mg/kg	0.01	0.13	0.06	0.71
Benzo(k)fluoranthene	N	mg/kg	0.01	0.14	0.07	0.59
Benzo(a)pyrene	N	mg/kg	0.01	0.15	0.07	0.64
Indeno(1,2,3-cd)pyrene	N	mg/kg	0.01	0.10	0.05	0.34
Dibenzo(a,h)anthracene	N	mg/kg	0.01	0.04	0.02	0.14
Benzo[g,h,i]perylene	N	mg/kg	0.01	0.10	0.06	0.36

Results Summary

Report No.: 22-44276, issue number 2

ELAB Reference	299698	299700
Customer Reference		
Sample ID		
Sample Type	SOIL	SOIL
Sample Location	G5. 1	H5. 1
Sample Depth (m)		
Sampling Date	25/10/2022	25/10/2022

Determinand	Codes	Units	LOD		
Organics					
Coal tar	N	%	0.01	< 0.01	< 0.01
SVOC					
Phenol	N	mg/kg	0.01	< 0.01	< 0.01
Aniline	N	mg/kg	0.01	< 0.01	< 0.01
Bis(2-chloroethyl)ether	N	mg/kg	0.01	< 0.01	< 0.01
2-Chlorophenol	N	mg/kg	0.01	< 0.01	< 0.01
1,3-Dichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01
1,4-Dichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01
Benzyl Alcohol	N	mg/kg	0.01	< 0.01	< 0.01
1,2-Dichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01
2-Methylphenol	N	mg/kg	0.01	< 0.01	< 0.01
Bis(2-chloroisopropyl)ether	N	mg/kg	0.01	< 0.01	< 0.01
3 and 4-methylphenol	N	mg/kg	0.01	< 0.01	< 0.01
N-Nitrosodi-n-propylamine	N	mg/kg	0.01	< 0.01	< 0.01
Hexachloroethane	N	mg/kg	0.01	< 0.01	< 0.01
Nitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01
Isophorone	N	mg/kg	0.01	< 0.01	< 0.01
2-Nitrophenol	N	mg/kg	0.01	< 0.01	< 0.01
2,4-Dimethylphenol	N	mg/kg	0.01	< 0.01	< 0.01
Bis(2-chloroethoxy)methane	N	mg/kg	0.01	< 0.01	< 0.01
2,4-Dichlorophenol	N	mg/kg	0.01	< 0.01	< 0.01
1,3,5-Trichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01
Naphthalene	N	mg/kg	0.01	0.01	0.03
3-Chloroaniline	N	mg/kg	0.01	< 0.01	< 0.01
Hexachloro-1,3-butadiene	N	mg/kg	0.01	< 0.01	< 0.01
4-Chloro-3-methylphenol	N	mg/kg	0.01	< 0.01	< 0.01
2-Methylnaphthalene	N	mg/kg	0.01	< 0.01	0.01
1-Methylnaphthalene	N	mg/kg	0.01	< 0.01	< 0.01
Hexachlorocyclopentadiene	N	mg/kg	0.01	< 0.01	< 0.01
2,4,6-Trichlorophenol	N	mg/kg	0.01	< 0.01	< 0.01
2,4,5-Trichlorophenol	N	mg/kg	0.01	< 0.01	< 0.01
1-Chloronaphthalene	N	mg/kg	0.01	< 0.01	< 0.01
2-Nitroaniline	N	mg/kg	0.01	< 0.01	< 0.01
1,4-Dinitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01
Dimethyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01
1-3-dinitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01
2-6-dinitrotoluene	N	mg/kg	0.01	< 0.01	< 0.01
Acenaphthylene	N	mg/kg	0.01	0.02	0.03
1,2-Dinitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01
3-Nitroaniline	N	mg/kg	0.01	< 0.01	< 0.01
Acenaphthene	N	mg/kg	0.01	< 0.01	0.01
4-nitrophenol	N	mg/kg	0.01	< 0.01	< 0.01
Dibenzofuran	N	mg/kg	0.01	< 0.01	< 0.01
2,3,5,6-Tetrachlorophenol	N	mg/kg	0.01	< 0.01	< 0.01
2,3,4,6-Tetrachlorophenol	N	mg/kg	0.01	< 0.01	< 0.01
Diethyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01
1-chloro-4-phenoxybenzene	N	mg/kg	0.01	< 0.01	< 0.01
Fluorene	N	mg/kg	0.01	< 0.01	< 0.01
4-Nitroaniline	N	mg/kg	0.01	< 0.01	< 0.01
Dinitro-o-cresol	N	mg/kg	0.01	< 0.01	< 0.01
Diphenylamine	N	mg/kg	0.01	< 0.01	< 0.01
Azobenzene	N	mg/kg	0.01	< 0.01	< 0.01
1-bromo-4-phenoxybenzene	N	mg/kg	0.01	< 0.01	< 0.01

Tests marked N are not UKAS accredited.



Results Summary

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Report No.: 22-44276, issue number 2

ELAB Reference	299698	299700
Customer Reference		
Sample ID		
Sample Type	SOIL	SOIL
Sample Location	G5. 1	H5. 1
Sample Depth (m)		
Sampling Date	25/10/2022	25/10/2022

Determinand	Codes	Units	LOD		
Organics					
Hexachlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01
Pentachlorophenol	N	mg/kg	0.01	< 0.01	< 0.01
Phenanthrene	N	mg/kg	0.01	0.07	0.18
Anthracene	N	mg/kg	0.01	0.02	0.04
Carbazole	N	mg/kg	0.01	< 0.01	0.01
Dibutyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01
Fluoranthene	N	mg/kg	0.01	0.20	0.69
Pyrene	N	mg/kg	0.01	0.18	0.62
Butyl benzyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01
Bis-2-ethylhexyladipate	N	mg/kg	0.01	< 0.01	< 0.01
Diisooctyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01
Benzo(a)anthracene	N	mg/kg	0.01	0.08	0.31
Chrysene	N	mg/kg	0.01	0.12	0.34
Bis(2-ethylhexyl)phthalate	N	mg/kg	0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	N	mg/kg	0.01	0.13	0.34
Benzo(k)fluoranthene	N	mg/kg	0.01	0.10	0.29
Benzo(a)pyrene	N	mg/kg	0.01	0.12	0.34
Indeno(1,2,3-cd)pyrene	N	mg/kg	0.01	0.08	0.22
Dibenzo(a,h)anthracene	N	mg/kg	0.01	0.03	0.09
Benzo[g,h,i]perylene	N	mg/kg	0.01	0.10	0.27

Results Summary

Report No.: 22-44276, issue number 2

WAC Analysis

Elab Ref:	299698					Landfill Waste Acceptance Criteria Limits*		
Sample Date:	25/10/2022					Inert Waste Landfill	Stable Non-reactive Hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:	G5. 1							
Depth (m)								
Site:	River Academy							
Determinand		Code	Units					
Total Organic Carbon		N	%		1.90	3	5	6
Loss on Ignition		M	%		6.3	--	--	10
Total BTEX		M	mg/kg		< 0.01	6	--	--
Total PCBs (7 congeners)		M	mg/kg		< 0.03	1	--	--
TPH Total WAC (EH_CU_1D_Total)		N	mg/kg		9	500	--	--
Total (of 17) PAHs		N	mg/kg		4.0	100	--	--
pH		M			7.9	--	>6	--
Acid Neutralisation Capacity		N	mol/kg		< 0.1	--	To evaluate	To evaluate

Eluate Analysis

			10:1	10:1	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg		
			mg/l	mg/kg			
Arsenic		N	< 0.005	< 0.05	0.5	2	25
Barium		N	0.007	0.07	20	100	300
Cadmium		N	< 0.001	< 0.01	0.04	1	5
Chromium		N	< 0.005	< 0.05	0.5	10	70
Copper		N	< 0.005	< 0.05	2	50	100
Mercury		N	< 0.005	< 0.01	0.01	0.2	2
Molybdenum		N	< 0.005	< 0.05	0.5	10	30
Nickel		N	< 0.001	< 0.05	0.4	10	40
Lead		N	< 0.001	< 0.05	0.5	10	50
Antimony		N	< 0.005	< 0.05	0.06	0.7	5
Selenium		N	< 0.005	< 0.05	0.1	0.5	7
Zinc		N	< 0.005	< 0.05	4	50	200
Chloride		N	< 5	< 50	800	15000	25000
Fluoride		N	< 5	< 10	10	150	500
Sulphate		N	1	13.80	1000	20000	50000
Total Dissolved Solids		N	53	531.00	4000	60000	100000
Phenol Index		N	< 0.01	< 0.10	1	-	-
Dissolved Organic Carbon		N	8.320	83.00	500	800	1000

Leach Test Information

pH		N	7.9				
Conductivity (uS/cm)		N	79				
Dry mass of test portion (g)			102.000				
Dry Matter (%)			86				
Moisture (%)			16				
Eluent Volume (ml)			984				

Results are expressed on a dry weight basis, after correction for moisture content where applicable

* Stated limits are for guidance only, and not for conformity assessment.

Results Summary

Report No.: 22-44276, issue number 2

WAC Analysis

Elab Ref:	299690					Landfill Waste Acceptance Criteria Limits*		
Sample Date:	25/10/2022					Inert Waste Landfill	Stable Non-reactive Hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:	C5. 1							
Depth (m)								
Site:	River Academy							
Determinand		Code	Units					
Total Organic Carbon		N	%		2.20	3	5	6
Loss on Ignition		M	%		< 0.01	--	--	10
Total BTEX		M	mg/kg		< 0.01	6	--	--
Total PCBs (7 congeners)		M	mg/kg		< 0.03	1	--	--
TPH Total WAC (EH_CU_1D_Total)		N	mg/kg		7	500	--	--
Total (of 17) PAHs		N	mg/kg		< 2	100	--	--
pH		M			8.0	--	>6	--
Acid Neutralisation Capacity		N	mol/kg		< 0.1	--	To evaluate	To evaluate

Eluate Analysis

			10:1	10:1	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg		
			mg/l	mg/kg			
Arsenic		N	< 0.005	< 0.05	0.5	2	25
Barium		N	< 0.005	< 0.05	20	100	300
Cadmium		N	< 0.001	< 0.01	0.04	1	5
Chromium		N	< 0.005	< 0.05	0.5	10	70
Copper		N	< 0.005	< 0.05	2	50	100
Mercury		N	< 0.005	< 0.01	0.01	0.2	2
Molybdenum		N	< 0.005	< 0.05	0.5	10	30
Nickel		N	< 0.001	< 0.05	0.4	10	40
Lead		N	< 0.001	< 0.05	0.5	10	50
Antimony		N	< 0.005	< 0.05	0.06	0.7	5
Selenium		N	< 0.005	< 0.05	0.1	0.5	7
Zinc		N	< 0.005	< 0.05	4	50	200
Chloride		N	< 5	< 50	800	15000	25000
Fluoride		N	< 5	< 10	10	150	500
Sulphate		N	< 1	< 10.0	1000	20000	50000
Total Dissolved Solids		N	31	310.00	4000	60000	100000
Phenol Index		N	< 0.01	< 0.10	1	-	-
Dissolved Organic Carbon		N	9.280	93.00	500	800	1000

Leach Test Information

pH		N	8.2				
Conductivity (uS/cm)		N	< 50				
Dry mass of test portion (g)			102.000				
Dry Matter (%)			83				
Moisture (%)			20				
Eluent Volume (ml)			979				

Results are expressed on a dry weight basis, after correction for moisture content where applicable

* Stated limits are for guidance only, and not for conformity assessment.

Results Summary

Report No.: 22-44276, issue number 2

Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #) in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos Identification	Gravimetric Analysis Total (%)	Gravimetric Analysis by ACM Type (%)	Free Fibre Analysis (%)	Total Asbestos (%)
299686		A5. 1	Brown Sandy soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
299687		A5. 1.2	Brown Sandy soil,Stones,organic	No asbestos detected	n/t	n/t	n/t	n/t
299688		B5. 1	Brown Sandy soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
299689		B5. 1.2	Brown Sandy soil,Stones,Organic	No asbestos detected	n/t	n/t	n/t	n/t
299690		C5. 1	Brown Sandy soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
299691		C5. 1.2	Brown Sandy soil,Stones,Organic	No asbestos detected	n/t	n/t	n/t	n/t
299692		D5. 1	Brown Sandy soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
299693		D5. 1.2	Brown Sandy soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
299694		E5. 1	Brown Sandy soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
299695		E5. 1.2	Brown Sandy soil,Stones,Organic	No asbestos detected	n/t	n/t	n/t	n/t
299696		F5. 1	Brown Sandy soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
299697		F5. 1.2	Brown Sandy soil,Stones,brick,Organic	No asbestos detected	n/t	n/t	n/t	n/t
299698		G5. 1	Brown Sandy soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
299699		G5. 1.2	Brown Sandy soil,Stones,Organic	No asbestos detected	n/t	n/t	n/t	n/t
299700		H5. 1	Brown Sandy soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
299701		H5. 1.2	Brown Sandy soil,Stones,Organic	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

Report No.: 22-44276, issue number 2

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
SVOC in solids	N	As submitted sample	31/10/2022		GC-MS
Phenols in solids	M	As submitted sample	31/10/2022	121	HPLC
SVOC in solids	N	As submitted sample	31/10/2022	167	GC-MS
Low range Aliphatic hydrocarbons soil	N	As submitted sample	01/11/2022	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	01/11/2022	181	GC-MS
Total cyanide	M	As submitted sample	01/11/2022	204	Colorimetry
Basic carbon banding in soil	N	As submitted sample	31/10/2022	218	GC-FID
TPH CWG soil by gc-gc	M	As submitted sample	31/10/2022	271	
Asbestos identification	U	Air dried sample	03/11/2022	280	Microscopy
Aqua regia extractable metals	M	Air dried sample	01/11/2022	300	ICPMS
Leachate					
Arsenic	N		02/11/2022	301	ICPMS
Cadmium	N		02/11/2022	301	ICPMS
Chromium	N		02/11/2022	301	ICPMS
Lead	N		02/11/2022	301	ICPMS
Nickel	N		02/11/2022	301	ICPMS
Copper	N		02/11/2022	301	ICPMS
Zinc	N		02/11/2022	301	ICPMS
Mercury	N		02/11/2022	301	ICPMS
Selenium	N		02/11/2022	301	ICPMS
Antimony	N		02/11/2022	301	ICPMS
Barium	N		02/11/2022	301	ICPMS
Molybdenum	N		02/11/2022	301	ICPMS
pH Value	N		02/11/2022	113	Electrometric
Electrical Conductivity	N		02/11/2022	136	Probe
Dissolved Organic Carbon	N		02/11/2022	102	TOC analyser
Chloride	N		02/11/2022	131	Ion Chromatography
Fluoride	N		02/11/2022	131	Ion Chromatography
Sulphate	N		02/11/2022	131	Ion Chromatography
Total Dissolved Solids	N		02/11/2022	144	Gravimetric
Phenol index	N		02/11/2022	121	HPLC
WAC Solids analysis	N				
pH	M	Air dried sample	02/11/2022	113	Electrometric
Total Organic Carbon	N	Air dried sample	01/11/2022	210	IR
Loss on Ignition	M	Air dried sample	02/11/2022	129	Gravimetric
Acid Neutralisation Capacity	N	Air dried sample	02/11/2022	NEN 737	Electrometric
Total BTEX	M	As submitted sample	01/11/2022	181	GCMS
Mineral Oil (EH_CU_1D_Total)	N	As submitted sample	01/11/2022	117	GCFID
Total PCBs (7 congeners)	M	Air dried sample	01/11/2022	120	GCMS
Total (of 17) PAHs	N	As submitted sample	01/11/2022	133	GCFID

Tests marked N are not UKAS accredited

Report Information

Report No.: 22-44276, issue number 2

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"
LOD	LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination. Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed. ELAB are unable to provide an interpretation or opinion on the content of this report. The results relate only to the sample received. PCB congener results may include any coeluting PCBs Uncertainty of measurement for the determinands tested are available upon request Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Deviation Codes

a	No date of sampling supplied
b	No time of sampling supplied (Waters Only)
c	Sample not received in appropriate containers
d	Sample not received in cooled condition
e	The container has been incorrectly filled
f	Sample age exceeds stability time (sampling to receipt)
g	Sample age exceeds stability time (sampling to analysis)

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month
 All water samples will be retained for 7 days following the date of the test report
 Charges may apply to extended sample storage

TPH Classification - HWOL Acronym System

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



2683



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THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 22-44277

Issue: 1

Date of Issue: 07/11/2022

Contact: Rick Willemse

Customer Details: Toureen Contractors Ltd
25 Cecil Road
Harrow
Middlesex HA3 5QY

Quotation No: Q22-03340

Order No: TCL1121

Customer Reference: Not Supplied

Date Received: 27/10/2022

Date Approved: 07/11/2022

Details: River Academy

Approved by: 

Mike Varley, General Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

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Sample Summary

Report No.: 22-44277, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
299702	I5. 1	25/10/2022	27/10/2022	Sandy silty loam	
299703	I5. 1.2	25/10/2022	27/10/2022		
299704	J5. 1	25/10/2022	27/10/2022	Sandy silty loam	
299705	J5. 1.2	25/10/2022	27/10/2022		
299706	K5. 1	25/10/2022	27/10/2022	Silty loam	
299707	K5. 1.2	25/10/2022	27/10/2022		
299708	L5. 1	25/10/2022	27/10/2022	Sandy silty loam	
299709	L5. 1.2	25/10/2022	27/10/2022		



Results Summary

Report No.: 22-44277, issue number 1

ELAB Reference	299702	299704	299706	299708
Customer Reference				
Sample ID				
Sample Type	SOIL	SOIL	SOIL	SOIL
Sample Location	I5. 1	J5. 1	K5. 1	L5. 1
Sample Depth (m)				
Sampling Date	25/10/2022	25/10/2022	25/10/2022	25/10/2022

Determinand	Codes	Units	LOD				
Soil sample preparation parameters							
Moisture Content	N	%	0.1	11.4	21.9	0.2	10.7
Material removed	N	%	0.1	23.3	22.9	26.3	13.7
Description of Inert material removed	N		0	Stones	Stones	Stones	Stones
Metals							
Arsenic	M	mg/kg	0.5	23.2	22.5	30.7	34.9
Cadmium	M	mg/kg	0.2	0.5	0.5	0.3	0.4
Chromium	M	mg/kg	1	36.8	37.6	43.3	43.9
Copper	M	mg/kg	4	43.8	52.6	25.4	28.2
Lead	M	mg/kg	1	111	146	52.6	59.4
Mercury	M	mg/kg	0.1	0.3	0.3	0.2	0.1
Nickel	M	mg/kg	1	28.8	28.4	33.5	35.2
Selenium	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium	M	mg/kg	0.5	47.3	48.5	65.0	65.0
Zinc	M	mg/kg	4.5	165	211	119	117
Inorganics							
Total Cyanide	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
Miscellaneous							
Acid Neutralisation Capacity	N	mol/kg	0.1	n/t	n/t	< 0.1	n/t
Loss on Ignition	M	%	0.01	n/t	n/t	4.15	n/t
pH	M	pH units	0.1	8.0	8.0	8.0	8.0
Total Organic Carbon	N	%	0.01	n/t	n/t	0.65	n/t

Results Summary

Report No.: 22-44277, issue number 1

ELAB Reference	299702	299704	299706	299708
Customer Reference				
Sample ID				
Sample Type	SOIL	SOIL	SOIL	SOIL
Sample Location	I5. 1	J5. 1	K5. 1	L5. 1
Sample Depth (m)				
Sampling Date	25/10/2022	25/10/2022	25/10/2022	25/10/2022

Determinand	Codes	Units	LOD				
Phenols							
Phenol	M	mg/kg	1	< 1	< 1	< 1	< 1
M,P-Cresol	N	mg/kg	1	< 1	< 1	< 1	< 1
O-Cresol	N	mg/kg	1	< 1	< 1	< 1	< 1
3,4-Dimethylphenol	N	mg/kg	1	< 1	< 1	< 1	< 1
2,3-Dimethylphenol	M	mg/kg	1	< 1	< 1	< 1	< 1
2,3,5-trimethylphenol	M	mg/kg	1	< 1	< 1	< 1	< 1
Total Monohydric Phenols	N	mg/kg	5	< 5	< 5	< 5	< 5
Polyaromatic hydrocarbons							
Naphthalene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t
Acenaphthylene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t
Acenaphthene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t
Fluorene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t
Phenanthrene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t
Anthracene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t
Fluoranthene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t
Pyrene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t
Benzo(a)anthracene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t
Chrysene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t
Benzo(b)fluoranthene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t
Benzo(k)fluoranthene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t
Benzo(a)pyrene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t
Dibenzo(a,h)anthracene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t
Benzo(g,h,i)perylene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t
Total PAH(16)	M	mg/kg	0.4	n/t	n/t	< 0.4	n/t
Total (of 17) PAHs	N	mg/kg	2	n/t	n/t	< 2	n/t



Results Summary

Report No.: 22-44277, issue number 1

ELAB Reference	299702	299704	299706	299708
Customer Reference				
Sample ID				
Sample Type	SOIL	SOIL	SOIL	SOIL
Sample Location	I5. 1	J5. 1	K5. 1	L5. 1
Sample Depth (m)				
Sampling Date	25/10/2022	25/10/2022	25/10/2022	25/10/2022

Determinand	Codes	Units	LOD				
BTEX							
Benzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0
Toluene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0
Ethylbenzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0
Xylenes	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0
MTBE	U	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0
Total BTEX	N	mg/kg	0.01	n/t	n/t	< 0.01	n/t
TPH CWG							
>C5-C6 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C6-C8 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aliphatic (HS_1D_MS+EH_2D_AL)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
>C10-C12 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
>C12-C16 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
>C16-C21 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
>C21-C35 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
>C35-C40 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
Total aliphatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AL)	N	mg/kg	1	< 1.0	2.1	< 1.0	< 1.0
>C5-C7 Aromatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C7-C8 Aromatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aromatic (HS_1D_MS+EH_2D_AR)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
>C10-C12 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
>C12-C16 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
>C16-C21 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	2.0	< 1.0	< 1.0
>C21-C35 Aromatic (EH_2D_AR)	M	mg/kg	1	3.6	12.5	< 1.0	< 1.0
>C35-C40 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	1.4	< 1.0	< 1.0
Total aromatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AR)	N	mg/kg	1	5.1	17.2	1.3	< 1.0
Total petroleum hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_Total)	N	mg/kg	1	5.5	19.3	1.8	< 1.0
Total Petroleum Hydrocarbons							
Mineral Oil w Florisil (EH_CU_1D_Total)	N	mg/kg	5	n/t	n/t	5	n/t
PCB (ICES 7 congeners)							
Total PCBs (7 congeners)	M	mg/kg	0.03	n/t	n/t	< 0.03	n/t

Results Summary

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Report No.: 22-44277, issue number 1

ELAB Reference				299702	299704	299706	299708
Customer Reference							
Sample ID							
Sample Type				SOIL	SOIL	SOIL	SOIL
Sample Location				I5. 1	J5. 1	K5. 1	L5. 1
Sample Depth (m)							
Sampling Date				25/10/2022	25/10/2022	25/10/2022	25/10/2022
Determinand	Codes	Units	LOD				
Organics							
Coal tar	N	%	0.01	< 0.01	< 0.01	< 0.01	< 0.01
SVOC							
Phenol	N	mg/kg	0.01	< 0.01	0.01	< 0.01	< 0.01
Aniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bis(2-chloroethyl)ether	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Chlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,3-Dichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,4-Dichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzyl Alcohol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-Dichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Methylphenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bis(2-chloroisopropyl)ether	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
3 and 4-methylphenol	N	mg/kg	0.01	< 0.01	0.01	< 0.01	< 0.01
N-Nitrosodi-n-propylamine	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachloroethane	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Nitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Isophorone	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Nitrophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-Dimethylphenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bis(2-chloroethoxy)methane	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-Dichlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,3,5-Trichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Naphthalene	N	mg/kg	0.01	0.01	0.06	< 0.01	< 0.01
3-Chloroaniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachloro-1,3-butadiene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
4-Chloro-3-methylphenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Methylnaphthalene	N	mg/kg	0.01	< 0.01	0.02	< 0.01	< 0.01
1-Methylnaphthalene	N	mg/kg	0.01	< 0.01	0.01	< 0.01	< 0.01
Hexachlorocyclopentadiene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4,6-Trichlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4,5-Trichlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
1-Chloronaphthalene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Nitroaniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,4-Dinitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dimethyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
1-3-dinitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-6-dinitrotoluene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthylene	N	mg/kg	0.01	0.02	0.19	< 0.01	< 0.01
1,2-Dinitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
3-Nitroaniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	N	mg/kg	0.01	< 0.01	0.05	< 0.01	< 0.01
4-nitrophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenzofuran	N	mg/kg	0.01	< 0.01	0.02	< 0.01	< 0.01
2,3,5,6-Tetrachlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,3,4,6-Tetrachlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Diethyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
1-chloro-4-phenoxybenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	N	mg/kg	0.01	< 0.01	0.04	< 0.01	< 0.01
4-Nitroaniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dinitro-o-cresol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Diphenylamine	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Azobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
1-bromo-4-phenoxybenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01

Tests marked N are not UKAS accredited.



Results Summary

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Report No.: 22-44277, issue number 1

ELAB Reference				299702	299704	299706	299708
Customer Reference							
Sample ID							
Sample Type				SOIL	SOIL	SOIL	SOIL
Sample Location				I5. 1	J5. 1	K5. 1	L5. 1
Sample Depth (m)							
Sampling Date				25/10/2022	25/10/2022	25/10/2022	25/10/2022
Determinand	Codes	Units	LOD				
Organics							
Hexachlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Pentachlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	N	mg/kg	0.01	0.10	0.77	< 0.01	0.02
Anthracene	N	mg/kg	0.01	0.03	0.32	< 0.01	< 0.01
Carbazole	N	mg/kg	0.01	< 0.01	0.05	< 0.01	< 0.01
Dibutyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	N	mg/kg	0.01	0.41	6.06	0.02	0.09
Pyrene	N	mg/kg	0.01	0.38	6.37	0.02	0.08
Butyl benzyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bis-2-ethylhexyladipate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Diisooctyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)anthracene	N	mg/kg	0.01	0.20	3.53	0.02	0.03
Chrysene	N	mg/kg	0.01	0.20	3.18	0.02	0.05
Bis(2-ethylhexyl)phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	N	mg/kg	0.01	0.18	3.53	0.02	0.05
Benzo(k)fluoranthene	N	mg/kg	0.01	0.22	3.18	0.01	0.04
Benzo(a)pyrene	N	mg/kg	0.01	0.21	4.03	0.02	0.05
Indeno(1,2,3-cd)pyrene	N	mg/kg	0.01	0.12	2.41	0.01	0.04
Dibenzo(a,h)anthracene	N	mg/kg	0.01	0.06	0.94	< 0.01	0.02
Benzo[g,h,i]perylene	N	mg/kg	0.01	0.14	2.69	0.02	0.05

Results Summary

Report No.: 22-44277, issue number 1

WAC Analysis

Elab Ref:	299706					Landfill Waste Acceptance Criteria Limits*		
Sample Date:	25/10/2022					Inert Waste Landfill	Stable Non-reactive Hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:	K5. 1							
Depth (m)								
Site:	River Academy							
Determinand		Code	Units					
Total Organic Carbon		N	%		0.65	3	5	6
Loss on Ignition		M	%		4.2	--	--	10
Total BTEX		M	mg/kg		< 0.01	6	--	--
Total PCBs (7 congeners)		M	mg/kg		< 0.03	1	--	--
TPH Total WAC (EH_CU_1D_Total)		N	mg/kg		5	500	--	--
Total (of 17) PAHs		N	mg/kg		< 2	100	--	--
pH		M			8.0	--	>6	--
Acid Neutralisation Capacity		N	mol/kg		< 0.1	--	To evaluate	To evaluate

Eluate Analysis

			10:1	10:1	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg		
			mg/l	mg/kg			
Arsenic		N	< 0.005	< 0.05	0.5	2	25
Barium		N	< 0.005	< 0.05	20	100	300
Cadmium		N	< 0.001	< 0.01	0.04	1	5
Chromium		N	< 0.005	< 0.05	0.5	10	70
Copper		N	< 0.005	< 0.05	2	50	100
Mercury		N	< 0.005	< 0.01	0.01	0.2	2
Molybdenum		N	< 0.005	< 0.05	0.5	10	30
Nickel		N	< 0.001	< 0.05	0.4	10	40
Lead		N	< 0.001	< 0.05	0.5	10	50
Antimony		N	< 0.005	< 0.05	0.06	0.7	5
Selenium		N	< 0.005	< 0.05	0.1	0.5	7
Zinc		N	0.011	0.11	4	50	200
Chloride		N	< 5	< 50	800	15000	25000
Fluoride		N	< 5	< 10	10	150	500
Sulphate		N	< 1	< 10.0	1000	20000	50000
Total Dissolved Solids		N	35	350.00	4000	60000	100000
Phenol Index		N	< 0.01	< 0.10	1	-	-
Dissolved Organic Carbon		N	7.820	78.00	500	800	1000

Leach Test Information

pH		N	7.9				
Conductivity (uS/cm)		N	52				
Dry mass of test portion (g)			102.000				
Dry Matter (%)			90				
Moisture (%)			11				
Eluent Volume (ml)			983				

Results are expressed on a dry weight basis, after correction for moisture content where applicable

* Stated limits are for guidance only, and not for conformity assessment.



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Results Summary

Report No.: 22-44277, issue number 1

Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #) in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos Identification	Gravimetric Analysis Total (%)	Gravimetric Analysis by ACM Type (%)	Free Fibre Analysis (%)	Total Asbestos (%)
299702		I5. 1	Brown Soil, Stones, Clinker	No asbestos detected	n/t	n/t	n/t	n/t
299703		I5. 1.2	Brown Sandy Soil, Stones, Clinker, Brick, Organics	No asbestos detected	n/t	n/t	n/t	n/t
299704		J5. 1	Brown Sandy Soil, Stones, Clinker, Organics	No asbestos detected	n/t	n/t	n/t	n/t
299705		J5. 1.2	Brown Sandy Soil, Stones, Clinker, Organics, Concrete	No asbestos detected	n/t	n/t	n/t	n/t
299706		K5. 1	Brown Sandy Soil, Stones, Clinker	No asbestos detected	n/t	n/t	n/t	n/t
299707		K5. 1.2	Brown Sandy Soil, Stones, Clinker, Organics	No asbestos detected	n/t	n/t	n/t	n/t
299708		L5. 1	Brown Sandy Soil, Stones, Clinker, Organics	No asbestos detected	n/t	n/t	n/t	n/t
299709		L5. 1.2	Brown Sandy Soil, Stones, Clinker, Organics, Brick	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

Report No.: 22-44277, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
SVOC in solids	N	As submitted sample	31/10/2022		GC-MS
Phenols in solids	M	As submitted sample	31/10/2022	121	HPLC
SVOC in solids	N	As submitted sample	31/10/2022	167	GC-MS
Low range Aliphatic hydrocarbons soil	N	As submitted sample	01/11/2022	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	01/11/2022	181	GC-MS
Total cyanide	M	As submitted sample	01/11/2022	204	Colorimetry
Basic carbon banding in soil	N	As submitted sample	31/10/2022	218	GC-FID
TPH CWG soil by gc-gc	M	As submitted sample	31/10/2022	271	
Asbestos identification	U	Air dried sample	03/11/2022	280	Microscopy
Aqua regia extractable metals	M	Air dried sample	01/11/2022	300	ICPMS
Leachate					
Arsenic	N		02/11/2022	301	ICPMS
Cadmium	N		02/11/2022	301	ICPMS
Chromium	N		02/11/2022	301	ICPMS
Lead	N		02/11/2022	301	ICPMS
Nickel	N		02/11/2022	301	ICPMS
Copper	N		02/11/2022	301	ICPMS
Zinc	N		02/11/2022	301	ICPMS
Mercury	N		02/11/2022	301	ICPMS
Selenium	N		02/11/2022	301	ICPMS
Antimony	N		02/11/2022	301	ICPMS
Barium	N		02/11/2022	301	ICPMS
Molybdenum	N		02/11/2022	301	ICPMS
pH Value	N		02/11/2022	113	Electrometric
Electrical Conductivity	N		02/11/2022	136	Probe
Dissolved Organic Carbon	N		02/11/2022	102	TOC analyser
Chloride	N		02/11/2022	131	Ion Chromatography
Fluoride	N		02/11/2022	131	Ion Chromatography
Sulphate	N		02/11/2022	131	Ion Chromatography
Total Dissolved Solids	N		02/11/2022	144	Gravimetric
Phenol index	N		02/11/2022	121	HPLC
WAC Solids analysis	N				
pH	M	Air dried sample	02/11/2022	113	Electrometric
Total Organic Carbon	N	Air dried sample	01/11/2022	210	IR
Loss on Ignition	M	Air dried sample	02/11/2022	129	Gravimetric
Acid Neutralisation Capacity	N	Air dried sample	02/11/2022	NEN 737	Electrometric
Total BTEX	M	As submitted sample	01/11/2022	181	GCMS
Mineral Oil (EH_CU_1D_Total)	N	As submitted sample	01/11/2022	117	GCFID
Total PCBs (7 congeners)	M	Air dried sample	01/11/2022	120	GCMS
Total (of 17) PAHs	N	As submitted sample	01/11/2022	133	GCFID

Tests marked N are not UKAS accredited

Report Information

Report No.: 22-44277, issue number 1

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"
LOD	LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination. Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed. ELAB are unable to provide an interpretation or opinion on the content of this report. The results relate only to the sample received. PCB congener results may include any coeluting PCBs Uncertainty of measurement for the determinands tested are available upon request Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Deviation Codes

a	No date of sampling supplied
b	No time of sampling supplied (Waters Only)
c	Sample not received in appropriate containers
d	Sample not received in cooled condition
e	The container has been incorrectly filled
f	Sample age exceeds stability time (sampling to receipt)
g	Sample age exceeds stability time (sampling to analysis)

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month
 All water samples will be retained for 7 days following the date of the test report
 Charges may apply to extended sample storage

TPH Classification - HWOL Acronym System

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



2683



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THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 22-44278

Issue: 1

Date of Issue: 07/11/2022

Contact: Rick Willemse

Customer Details: Toureen Contractors Ltd
25 Cecil Road
Harrow
Middlesex HA3 5QY

Quotation No: Q22-03340

Order No: TCL1121

Customer Reference: Not Supplied

Date Received: 27/10/2022

Date Approved: 07/11/2022

Details: River Academy

Approved by: 

Mike Varley, General Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

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Sample Summary

Report No.: 22-44278, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
299710	A6. 1	26/10/2022	27/10/2022	Silty loam	
299711	A6. 1.2	26/10/2022	27/10/2022		
299712	B6. 1	26/10/2022	27/10/2022	Silty loam	
299713	C6. 1	26/10/2022	27/10/2022	Sandy silty loam	
299714	C6. 1.2	26/10/2022	27/10/2022		
299715	D6. 1	26/10/2022	27/10/2022	Sandy silty loam	
299716	D6. 1.2	26/10/2022	27/10/2022		
299717	E6. 1	26/10/2022	27/10/2022	Sandy silty loam	
299718	E6. 1.2	26/10/2022	27/10/2022		
299719	F6. 1	26/10/2022	27/10/2022	Sandy silty loam	
299720	F6. 1.2	26/10/2022	27/10/2022		
299721	G6. 1	26/10/2022	27/10/2022	Sandy silty loam	
299722	G6. 1.2	26/10/2022	27/10/2022		



Results Summary

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Report No.: 22-44278, issue number 1

ELAB Reference	299710	299712	299713	299715	299717	299719	299721
Customer Reference							
Sample ID							
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	A6. 1	B6. 1	C6. 1	D6. 1	E6. 1	F6. 1	G6. 1
Sample Depth (m)							
Sampling Date	26/10/2022	26/10/2022	26/10/2022	26/10/2022	26/10/2022	26/10/2022	26/10/2022

Determinand	Codes	Units	LOD							
Soil sample preparation parameters										
Moisture Content	N	%	0.1	16.3	13.3	13.9	12.3	17.4	12.5	11.1
Material removed	N	%	0.1	18.5	23.9	24.0	20.5	19.2	23.8	26.1
Description of Inert material removed	N		0	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Metals										
Arsenic	M	mg/kg	0.5	28.2	34.9	30.9	30.1	24.3	27.4	28.5
Cadmium	M	mg/kg	0.2	0.5	0.5	0.4	0.3	0.5	0.4	0.3
Chromium	M	mg/kg	1	42.0	46.4	41.7	44.0	36.4	37.9	32.0
Copper	M	mg/kg	4	31.3	36.4	26.8	27.7	28.9	31.0	20.5
Lead	M	mg/kg	1	77.9	95.5	65.4	72.8	84.3	82.5	40.8
Mercury	M	mg/kg	0.1	0.3	0.3	0.2	0.2	0.2	0.2	0.1
Nickel	M	mg/kg	1	34.4	39.0	32.6	30.9	27.5	29.5	29.0
Selenium	M	mg/kg	1	1.5	< 1.0	< 1.0	1.0	< 1.0	< 1.0	< 1.0
Vanadium	M	mg/kg	0.5	63.4	70.1	60.8	57.2	54.4	54.2	51.5
Zinc	M	mg/kg	4.5	132	150	113	102	129	116	82.9
Inorganics										
Total Cyanide	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Miscellaneous										
pH	M	pH units	0.1	7.6	7.9	7.9	8.0	7.6	7.8	8.0
Phenols										
Phenol	M	mg/kg	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
M,P-Cresol	N	mg/kg	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
O-Cresol	N	mg/kg	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
3,4-Dimethylphenol	N	mg/kg	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,3-Dimethylphenol	M	mg/kg	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,3,5-trimethylphenol	M	mg/kg	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Total Monohydric Phenols	N	mg/kg	5	< 5	< 5	< 5	< 5	< 5	< 5	< 5



Results Summary

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Report No.: 22-44278, issue number 1

ELAB Reference	299710	299712	299713	299715	299717	299719	299721
Customer Reference							
Sample ID							
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	A6. 1	B6. 1	C6. 1	D6. 1	E6. 1	F6. 1	G6. 1
Sample Depth (m)							
Sampling Date	26/10/2022	26/10/2022	26/10/2022	26/10/2022	26/10/2022	26/10/2022	26/10/2022

Determinand	Codes	Units	LOD							
BTEX										
Benzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Toluene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Ethylbenzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Xylenes	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
MTBE	U	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
TPH CWG										
>C5-C6 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C6-C8 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aliphatic (HS_1D_MS+EH_2D_AL)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C10-C12 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C12-C16 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C16-C21 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C21-C35 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C35-C40 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total aliphatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AL)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C5-C7 Aromatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C7-C8 Aromatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aromatic (HS_1D_MS+EH_2D_AR)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C10-C12 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C12-C16 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C16-C21 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C21-C35 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C35-C40 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total aromatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AR)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total petroleum hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_Total)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results Summary

Report No.: 22-44278, issue number 1

ELAB Reference				299710	299712	299713	299715	299717	299719
Customer Reference									
Sample ID									
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				A6. 1	B6. 1	C6. 1	D6. 1	E6. 1	F6. 1
Sample Depth (m)									
Sampling Date				26/10/2022	26/10/2022	26/10/2022	26/10/2022	26/10/2022	26/10/2022
Determinand	Codes	Units	LOD						
Organics									
Coal tar	N	%	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
SVOC									
Phenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bis(2-chloroethyl)ether	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Chlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,3-Dichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,4-Dichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzyl Alcohol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-Dichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Methylphenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bis(2-chloroisopropyl)ether	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
3 and 4-methylphenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
N-Nitrosodi-n-propylamine	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachloroethane	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Nitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Isophorone	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Nitrophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-Dimethylphenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bis(2-chloroethoxy)methane	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-Dichlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,3,5-Trichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Naphthalene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.01	0.02
3-Chloroaniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachloro-1,3-butadiene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
4-Chloro-3-methylphenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Methylnaphthalene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1-Methylnaphthalene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachlorocyclopentadiene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4,6-Trichlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4,5-Trichlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1-Chloronaphthalene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Nitroaniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,4-Dinitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dimethyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1-3-dinitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-6-dinitrotoluene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthylene	N	mg/kg	0.01	< 0.01	0.01	< 0.01	< 0.01	0.01	0.02
1,2-Dinitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
3-Nitroaniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
4-nitrophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenzofuran	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,3,5,6-Tetrachlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,3,4,6-Tetrachlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Diethyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1-chloro-4-phenoxybenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
4-Nitroaniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dinitro-o-cresol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Diphenylamine	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Azobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1-bromo-4-phenoxybenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

Tests marked N are not UKAS accredited.

Results Summary

Report No.: 22-44278, issue number 1

ELAB Reference				299710	299712	299713	299715	299717	299719
Customer Reference									
Sample ID									
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				A6. 1	B6. 1	C6. 1	D6. 1	E6. 1	F6. 1
Sample Depth (m)									
Sampling Date				26/10/2022	26/10/2022	26/10/2022	26/10/2022	26/10/2022	26/10/2022
Determinand	Codes	Units	LOD						
Organics									
Hexachlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Pentachlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	N	mg/kg	0.01	0.02	0.03	0.01	0.01	0.10	0.10
Anthracene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.02	0.02
Carbazole	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.01
Dibutyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	N	mg/kg	0.01	0.07	0.12	0.04	0.05	0.37	0.34
Pyrene	N	mg/kg	0.01	0.07	0.11	0.04	0.05	0.32	0.33
Butyl benzyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bis-2-ethylhexyladipate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Diisooctyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)anthracene	N	mg/kg	0.01	0.05	0.06	0.02	0.03	0.18	0.18
Chrysene	N	mg/kg	0.01	0.04	0.06	0.03	0.03	0.19	0.22
Bis(2-ethylhexyl)phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	N	mg/kg	0.01	0.04	0.05	0.03	0.03	0.22	0.17
Benzo(k)fluoranthene	N	mg/kg	0.01	0.04	0.08	0.02	0.03	0.15	0.16
Benzo(a)pyrene	N	mg/kg	0.01	0.04	0.07	0.03	0.04	0.16	0.19
Indeno(1,2,3-cd)pyrene	N	mg/kg	0.01	0.03	0.04	0.01	0.02	0.10	0.11
Dibenzo(a,h)anthracene	N	mg/kg	0.01	0.01	0.02	< 0.01	< 0.01	0.04	0.04
Benzo[g,h,i]perylene	N	mg/kg	0.01	0.04	0.05	0.02	0.03	0.11	0.13

Results Summary

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Report No.: 22-44278, issue number 1

ELAB Reference	299721
Customer Reference	
Sample ID	
Sample Type	SOIL
Sample Location	G6. 1
Sample Depth (m)	
Sampling Date	26/10/2022

Determinand	Codes	Units	LOD	
Organics				
Coal tar	N	%	0.01	< 0.01
SVOC				
Phenol	N	mg/kg	0.01	< 0.01
Aniline	N	mg/kg	0.01	< 0.01
Bis(2-chloroethyl)ether	N	mg/kg	0.01	< 0.01
2-Chlorophenol	N	mg/kg	0.01	< 0.01
1,3-Dichlorobenzene	N	mg/kg	0.01	< 0.01
1,4-Dichlorobenzene	N	mg/kg	0.01	< 0.01
Benzyl Alcohol	N	mg/kg	0.01	< 0.01
1,2-Dichlorobenzene	N	mg/kg	0.01	< 0.01
2-Methylphenol	N	mg/kg	0.01	< 0.01
Bis(2-chloroisopropyl)ether	N	mg/kg	0.01	< 0.01
3 and 4-methylphenol	N	mg/kg	0.01	< 0.01
N-Nitrosodi-n-propylamine	N	mg/kg	0.01	< 0.01
Hexachloroethane	N	mg/kg	0.01	< 0.01
Nitrobenzene	N	mg/kg	0.01	< 0.01
Isophorone	N	mg/kg	0.01	< 0.01
2-Nitrophenol	N	mg/kg	0.01	< 0.01
2,4-Dimethylphenol	N	mg/kg	0.01	< 0.01
Bis(2-chloroethoxy)methane	N	mg/kg	0.01	< 0.01
2,4-Dichlorophenol	N	mg/kg	0.01	< 0.01
1,3,5-Trichlorobenzene	N	mg/kg	0.01	< 0.01
Naphthalene	N	mg/kg	0.01	< 0.01
3-Chloroaniline	N	mg/kg	0.01	< 0.01
Hexachloro-1,3-butadiene	N	mg/kg	0.01	< 0.01
4-Chloro-3-methylphenol	N	mg/kg	0.01	< 0.01
2-Methylnaphthalene	N	mg/kg	0.01	< 0.01
1-Methylnaphthalene	N	mg/kg	0.01	< 0.01
Hexachlorocyclopentadiene	N	mg/kg	0.01	< 0.01
2,4,6-Trichlorophenol	N	mg/kg	0.01	< 0.01
2,4,5-Trichlorophenol	N	mg/kg	0.01	< 0.01
1-Chloronaphthalene	N	mg/kg	0.01	< 0.01
2-Nitroaniline	N	mg/kg	0.01	< 0.01
1,4-Dinitrobenzene	N	mg/kg	0.01	< 0.01
Dimethyl phthalate	N	mg/kg	0.01	< 0.01
1-3-dinitrobenzene	N	mg/kg	0.01	< 0.01
2-6-dinitrotoluene	N	mg/kg	0.01	< 0.01
Acenaphthylene	N	mg/kg	0.01	< 0.01
1,2-Dinitrobenzene	N	mg/kg	0.01	< 0.01
3-Nitroaniline	N	mg/kg	0.01	< 0.01
Acenaphthene	N	mg/kg	0.01	< 0.01
4-nitrophenol	N	mg/kg	0.01	< 0.01
Dibenzofuran	N	mg/kg	0.01	< 0.01
2,3,5,6-Tetrachlorophenol	N	mg/kg	0.01	< 0.01
2,3,4,6-Tetrachlorophenol	N	mg/kg	0.01	< 0.01
Diethyl phthalate	N	mg/kg	0.01	< 0.01
1-chloro-4-phenoxybenzene	N	mg/kg	0.01	< 0.01
Fluorene	N	mg/kg	0.01	< 0.01
4-Nitroaniline	N	mg/kg	0.01	< 0.01
Dinitro-o-cresol	N	mg/kg	0.01	< 0.01
Diphenylamine	N	mg/kg	0.01	< 0.01
Azobenzene	N	mg/kg	0.01	< 0.01
1-bromo-4-phenoxybenzene	N	mg/kg	0.01	< 0.01

Tests marked N are not UKAS accredited.

The Environmental Laboratory Ltd. Reg. No. 3882193



Results Summary

2683

Report No.: 22-44278, issue number 1

ELAB Reference	299721
Customer Reference	
Sample ID	
Sample Type	SOIL
Sample Location	G6. 1
Sample Depth (m)	
Sampling Date	26/10/2022

Determinand	Codes	Units	LOD	
Organics				
Hexachlorobenzene	N	mg/kg	0.01	< 0.01
Pentachlorophenol	N	mg/kg	0.01	< 0.01
Phenanthrene	N	mg/kg	0.01	0.02
Anthracene	N	mg/kg	0.01	< 0.01
Carbazole	N	mg/kg	0.01	< 0.01
Dibutyl phthalate	N	mg/kg	0.01	< 0.01
Fluoranthene	N	mg/kg	0.01	0.08
Pyrene	N	mg/kg	0.01	0.08
Butyl benzyl phthalate	N	mg/kg	0.01	< 0.01
Bis-2-ethylhexyladipate	N	mg/kg	0.01	< 0.01
Diisooctyl phthalate	N	mg/kg	0.01	< 0.01
Benzo(a)anthracene	N	mg/kg	0.01	0.04
Chrysene	N	mg/kg	0.01	0.05
Bis(2-ethylhexyl)phthalate	N	mg/kg	0.01	< 0.01
Benzo(b)fluoranthene	N	mg/kg	0.01	0.04
Benzo(k)fluoranthene	N	mg/kg	0.01	0.04
Benzo(a)pyrene	N	mg/kg	0.01	0.05
Indeno(1,2,3-cd)pyrene	N	mg/kg	0.01	0.03
Dibenzo(a,h)anthracene	N	mg/kg	0.01	0.01
Benzo[g,h,i]perylene	N	mg/kg	0.01	0.04



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Results Summary

Report No.: 22-44278, issue number 1

Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #) in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos Identification	Gravimetric Analysis Total (%)	Gravimetric Analysis by ACM Type (%)	Free Fibre Analysis (%)	Total Asbestos (%)
299710		A6. 1	Brown Sandy Soil, Stones	No asbestos detected	n/t	n/t	n/t	n/t
299711		A6. 1.2	Brown Sandy Soil, Stones, Clinker, Organics, Glass	No asbestos detected	n/t	n/t	n/t	n/t
299712		B6. 1	Brown Sandy Soil, Stones, Clinker, Organics	No asbestos detected	n/t	n/t	n/t	n/t
299713		C6. 1	Brown Sandy Soil, Stones, Clinker, Brick, Organics	No asbestos detected	n/t	n/t	n/t	n/t
299714		C6. 1.2	Brown Sandy Soil, Stones, Clinker, Organics	No asbestos detected	n/t	n/t	n/t	n/t
299715		D6. 1	Brown Sandy Soil, Stones, Clinker	No asbestos detected	n/t	n/t	n/t	n/t
299716		D6. 1.2	Brown Sandy Soil, Stones, Clinker,, Brick, Organics	No asbestos detected	n/t	n/t	n/t	n/t
299717		E6. 1	Brown Sandy Soil, Stones, Clinker, Organics	No asbestos detected	n/t	n/t	n/t	n/t
299718		E6. 1.2	Brown Soil, Stones, Clinker, Brick, Organics	No asbestos detected	n/t	n/t	n/t	n/t
299719		F6. 1	Brown Sandy Soil, Stones, Clinker, Organics	No asbestos detected	n/t	n/t	n/t	n/t
299720		F6. 1.2	Brown Sandy Soil, Stones, Clinker, Organics	No asbestos detected	n/t	n/t	n/t	n/t
299721		G6. 1	Brown Sandy Soil, Stones, Clinker	No asbestos detected	n/t	n/t	n/t	n/t
299722		G6. 1.2	Brown Sandy Soil, Stones, Clinker, Organics	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

Report No.: 22-44278, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
SVOC in solids	N	As submitted sample	31/10/2022		GC-MS
pH	M	Air dried sample	02/11/2022	113	Electromeric
Phenols in solids	M	As submitted sample	31/10/2022	121	HPLC
SVOC in solids	N	As submitted sample	31/10/2022	167	GC-MS
Low range Aliphatic hydrocarbons soil	N	As submitted sample	04/11/2022	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	03/11/2022	181	GC-MS
BTEX in solids	M	As submitted sample	01/11/2022	181A	GC-MS
Total cyanide	M	As submitted sample	01/11/2022	204	Colorimetry
Basic carbon banding in soil	N	As submitted sample	31/10/2022	218	GC-FID
TPH CWG soil by gc-gc	M	As submitted sample	04/11/2022	271	
Asbestos identification	U	Air dried sample	03/11/2022	280	Microscopy
Aqua regia extractable metals	M	Air dried sample	01/11/2022	300	ICPMS

Tests marked N are not UKAS accredited

Report Information

Report No.: 22-44278, issue number 1

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"
LOD	LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination. Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed. ELAB are unable to provide an interpretation or opinion on the content of this report. The results relate only to the sample received. PCB congener results may include any coeluting PCBs Uncertainty of measurement for the determinands tested are available upon request Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Deviation Codes

a	No date of sampling supplied
b	No time of sampling supplied (Waters Only)
c	Sample not received in appropriate containers
d	Sample not received in cooled condition
e	The container has been incorrectly filled
f	Sample age exceeds stability time (sampling to receipt)
g	Sample age exceeds stability time (sampling to analysis)

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month
 All water samples will be retained for 7 days following the date of the test report
 Charges may apply to extended sample storage

TPH Classification - HWOL Acronym System

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



2683



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THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 22-44279

Issue: 1

Date of Issue: 07/11/2022

Contact: Rick Willemse

Customer Details: Toureen Contractors Ltd
25 Cecil Road
Harrow
Middlesex HA3 5QY

Quotation No: Q22-03340

Order No: TCL1121

Customer Reference: Not Supplied

Date Received: 27/10/2022

Date Approved: 07/11/2022

Details: River Academy

Approved by: 

Mike Varley, General Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

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Sample Summary

Report No.: 22-44279, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
299723	H6. 1	26/10/2022	27/10/2022	Sandy silty loam	
299724	H6. 1.2	26/10/2022	27/10/2022		
299725	H6. 1	26/10/2022	27/10/2022		
299726	I6. 1	26/10/2022	27/10/2022	Silty loam	
299727	I6. 1.2	26/10/2022	27/10/2022		
299728	J6. 1	26/10/2022	27/10/2022	Silty loam	
299729	J6. 1.2	26/10/2022	27/10/2022		
299730	K6. 1	26/10/2022	27/10/2022	Sandy silty loam	
299731	K6. 1.2	26/10/2022	27/10/2022		
299732	L6. 1	26/10/2022	27/10/2022	Sandy silty loam	
299733	L6. 1.2	26/10/2022	27/10/2022		



Results Summary

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Report No.: 22-44279, issue number 1

ELAB Reference	299723	299726	299728	299730	299732
Customer Reference					
Sample ID					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	H6. 1	I6. 1	J6. 1	K6. 1	L6. 1
Sample Depth (m)					
Sampling Date	26/10/2022	26/10/2022	26/10/2022	26/10/2022	26/10/2022

Determinand	Codes	Units	LOD					
Soil sample preparation parameters								
Moisture Content	N	%	0.1	10.9	11.7	10.7	10.6	9.7
Material removed	N	%	0.1	23.8	17.3	17.7	23.7	19.7
Description of Inert material removed	N		0	Stones	Stones	Stones	Stones	Stones
Metals								
Arsenic	M	mg/kg	0.5	32.4	26.5	25.9	44.0	34.9
Cadmium	M	mg/kg	0.2	0.4	0.6	0.5	0.5	0.3
Chromium	M	mg/kg	1	41.6	43.0	42.2	57.5	45.1
Copper	M	mg/kg	4	30.0	52.7	50.5	44.0	24.4
Lead	M	mg/kg	1	56.8	107	106	111	50.2
Mercury	M	mg/kg	0.1	0.2	0.3	0.3	0.3	0.2
Nickel	M	mg/kg	1	33.4	31.4	30.5	47.6	41.8
Selenium	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium	M	mg/kg	0.5	62.1	55.4	52.5	81.8	70.8
Zinc	M	mg/kg	4.5	120	205	206	180	101
Inorganics								
Total Cyanide	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Miscellaneous								
pH	M	pH units	0.1	8.0	8.0	8.0	8.1	8.1
Phenols								
Phenol	M	mg/kg	1	< 1	< 1	< 1	< 1	< 1
M,P-Cresol	N	mg/kg	1	< 1	< 1	< 1	< 1	< 1
O-Cresol	N	mg/kg	1	< 1	< 1	< 1	< 1	< 1
3,4-Dimethylphenol	N	mg/kg	1	< 1	< 1	< 1	< 1	< 1
2,3-Dimethylphenol	M	mg/kg	1	< 1	< 1	< 1	< 1	< 1
2,3,5-trimethylphenol	M	mg/kg	1	< 1	< 1	< 1	< 1	< 1
Total Monohydric Phenols	N	mg/kg	5	< 5	< 5	< 5	< 5	< 5



Results Summary

2683

Report No.: 22-44279, issue number 1

ELAB Reference	299723	299726	299728	299730	299732
Customer Reference					
Sample ID					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	H6. 1	I6. 1	J6. 1	K6. 1	L6. 1
Sample Depth (m)					
Sampling Date	26/10/2022	26/10/2022	26/10/2022	26/10/2022	26/10/2022

Determinand	Codes	Units	LOD					
BTEX								
Benzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Toluene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Ethylbenzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Xylenes	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
MTBE	U	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
TPH CWG								
>C5-C6 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C6-C8 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aliphatic (HS_1D_MS+EH_2D_AL)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C10-C12 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C12-C16 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C16-C21 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C21-C35 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	22.5	< 1.0	< 1.0	< 1.0
>C35-C40 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	4.3	< 1.0	< 1.0	< 1.0
Total aliphatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AL)	N	mg/kg	1	< 1.0	27.8	< 1.0	1.5	1.0
>C5-C7 Aromatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C7-C8 Aromatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aromatic (HS_1D_MS+EH_2D_AR)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C10-C12 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C12-C16 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C16-C21 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	1.6
>C21-C35 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	6.2	1.9	4.8	8.2
>C35-C40 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	2.2	< 1.0	< 1.0	1.1
Total aromatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AR)	N	mg/kg	1	< 1.0	9.6	2.8	6.8	11.5
Total petroleum hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_Total)	N	mg/kg	1	< 1.0	37.4	2.8	8.4	12.6

Results Summary

Report No.: 22-44279, issue number 1

ELAB Reference				299723	299726	299728	299730	299732
Customer Reference								
Sample ID								
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				H6. 1	I6. 1	J6. 1	K6. 1	L6. 1
Sample Depth (m)								
Sampling Date				26/10/2022	26/10/2022	26/10/2022	26/10/2022	26/10/2022
Determinand	Codes	Units	LOD					
Organics								
Coal tar	N	%	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
SVOC								
Phenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.01
Aniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bis(2-chloroethyl)ether	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Chlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,3-Dichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,4-Dichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzyl Alcohol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-Dichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Methylphenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bis(2-chloroisopropyl)ether	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
3 and 4-methylphenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.01
N-Nitrosodi-n-propylamine	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachloroethane	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Nitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Isophorone	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Nitrophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-Dimethylphenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bis(2-chloroethoxy)methane	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-Dichlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,3,5-Trichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Naphthalene	N	mg/kg	0.01	< 0.01	0.01	0.01	0.01	0.02
3-Chloroaniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachloro-1,3-butadiene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
4-Chloro-3-methylphenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Methylnaphthalene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1-Methylnaphthalene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachlorocyclopentadiene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4,6-Trichlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4,5-Trichlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.02
1-Chloronaphthalene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Nitroaniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,4-Dinitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dimethyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1-3-dinitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-6-dinitrotoluene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthylene	N	mg/kg	0.01	< 0.01	0.02	0.02	0.01	0.02
1,2-Dinitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
3-Nitroaniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	0.02	0.01
4-nitrophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenzofuran	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,3,5,6-Tetrachlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.02
2,3,4,6-Tetrachlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.02
Diethyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1-chloro-4-phenoxybenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	0.01	0.02
4-Nitroaniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dinitro-o-cresol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Diphenylamine	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Azobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1-bromo-4-phenoxybenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

Tests marked N are not UKAS accredited.

Results Summary

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Report No.: 22-44279, issue number 1

ELAB Reference	299723	299726	299728	299730	299732
Customer Reference					
Sample ID					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	H6. 1	I6. 1	J6. 1	K6. 1	L6. 1
Sample Depth (m)					
Sampling Date	26/10/2022	26/10/2022	26/10/2022	26/10/2022	26/10/2022
Determinand	Codes	Units	LOD		
Organics					
Hexachlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01
Pentachlorophenol	N	mg/kg	0.01	< 0.01	< 0.01
Phenanthrene	N	mg/kg	0.01	0.02	0.03
Anthracene	N	mg/kg	0.01	< 0.01	0.02
Carbazole	N	mg/kg	0.01	< 0.01	< 0.01
Dibutyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01
Fluoranthene	N	mg/kg	0.01	0.07	0.23
Pyrene	N	mg/kg	0.01	0.07	0.26
Butyl benzyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01
Bis-2-ethylhexyladipate	N	mg/kg	0.01	< 0.01	< 0.01
Diisooctyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01
Benzo(a)anthracene	N	mg/kg	0.01	0.03	0.24
Chrysene	N	mg/kg	0.01	0.04	0.22
Bis(2-ethylhexyl)phthalate	N	mg/kg	0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	N	mg/kg	0.01	0.04	0.14
Benzo(k)fluoranthene	N	mg/kg	0.01	0.04	0.13
Benzo(a)pyrene	N	mg/kg	0.01	0.04	0.15
Indeno(1,2,3-cd)pyrene	N	mg/kg	0.01	0.03	0.06
Dibenzo(a,h)anthracene	N	mg/kg	0.01	0.01	0.03
Benzo[g,h,i]perylene	N	mg/kg	0.01	0.04	0.07



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Results Summary

Report No.: 22-44279, issue number 1

Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #) in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos Identification	Gravimetric Analysis Total (%)	Gravimetric Analysis by ACM Type (%)	Free Fibre Analysis (%)	Total Asbestos (%)
299723		H6. 1	Brown sandy soil, stones, clinker	No asbestos detected	n/t	n/t	n/t	n/t
299724		H6. 1.2	Brown sandy soil, stones, clinker, organics	No asbestos detected	n/t	n/t	n/t	n/t
299726		I6. 1	Brown sandy soil, stones, clinker, organics	No asbestos detected	n/t	n/t	n/t	n/t
299727		I6. 1.2	Brown sandy soil, stones, concrete, clinker, organics	No asbestos detected	n/t	n/t	n/t	n/t
299728		J6. 1	Brown sandy soil, stones, concrete, brick, clinker, organics	No asbestos detected	n/t	n/t	n/t	n/t
299729		J6. 1.2	Brown sandy soil, stones, clinker, organics	No asbestos detected	n/t	n/t	n/t	n/t
299730		K6. 1	Brown sandy soil, stones, concrete, brick, clinker, organics	No asbestos detected	n/t	n/t	n/t	n/t
299731		K6. 1.2	Brown sandy soil, stones, clinker, organics	No asbestos detected	n/t	n/t	n/t	n/t
299732		L6. 1	Brown sandy soil, stones, brick, clinker, organics	No asbestos detected	n/t	n/t	n/t	n/t
299733		L6. 1.2	Brown sandy soil, stones, clinker, organics	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

Report No.: 22-44279, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
SVOC in solids	N	As submitted sample	31/10/2022		GC-MS
pH	M	Air dried sample	02/11/2022	113	Electromeric
Phenols in solids	M	As submitted sample	31/10/2022	121	HPLC
SVOC in solids	N	As submitted sample	31/10/2022	167	GC-MS
Low range Aliphatic hydrocarbons soil	N	As submitted sample	04/11/2022	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	03/11/2022	181	GC-MS
BTEX in solids	M	As submitted sample	01/11/2022	181A	GC-MS
Total cyanide	M	As submitted sample	01/11/2022	204	Colorimetry
Basic carbon banding in soil	N	As submitted sample	31/10/2022	218	GC-FID
TPH CWG soil by gc-gc	M	As submitted sample	04/11/2022	271	
Asbestos identification	U	Air dried sample	03/11/2022	280	Microscopy
Aqua regia extractable metals	M	Air dried sample	01/11/2022	300	ICPMS

Tests marked N are not UKAS accredited

Report Information

Report No.: 22-44279, issue number 1

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"
LOD	LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination. Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed. ELAB are unable to provide an interpretation or opinion on the content of this report. The results relate only to the sample received. PCB congener results may include any coeluting PCBs Uncertainty of measurement for the determinands tested are available upon request Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Deviation Codes

a	No date of sampling supplied
b	No time of sampling supplied (Waters Only)
c	Sample not received in appropriate containers
d	Sample not received in cooled condition
e	The container has been incorrectly filled
f	Sample age exceeds stability time (sampling to receipt)
g	Sample age exceeds stability time (sampling to analysis)

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month
 All water samples will be retained for 7 days following the date of the test report
 Charges may apply to extended sample storage

TPH Classification - HWOL Acronym System

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



2683



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THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 22-44334

Issue: 1

Date of Issue: 07/11/2022

Contact: David Skinner

Customer Details: Toureen Contractors Ltd
25 Cecil Road
Harrow
Middlesex HA3 5QY

Quotation No: Q22-03340

Order No: Not Supplied

Customer Reference: TCL1121

Date Received: 31/10/2022

Date Approved: 07/11/2022

Details: River Academy

Approved by: 

Mike Varley, General Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

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Sample Summary

Report No.: 22-44334, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
299963	A7.1	26/10/2022	31/10/2022	Sandy silty loam	
299964	A7.1.2	26/10/2022	31/10/2022		
299965	B7.1	26/10/2022	31/10/2022	Sandy loam	
299966	B7.1.2	26/10/2022	31/10/2022		
299967	C7.1	26/10/2022	31/10/2022	Sandy loam	
299968	C7.1.2	26/10/2022	31/10/2022		
299969	D7.1	26/10/2022	31/10/2022	Sandy silty loam	
299970	D7.1.2	26/10/2022	31/10/2022		
299971	E7.1	26/10/2022	31/10/2022	Sandy silty loam	
299972	E7.1.2	26/10/2022	31/10/2022		
299973	F7.1	26/10/2022	31/10/2022	Sandy loam	
299974	F7.1.2	26/10/2022	31/10/2022		
299975	G7.1	26/10/2022	31/10/2022	Sandy loam	
299976	G7.1.2	26/10/2022	31/10/2022		



Results Summary

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Report No.: 22-44334, issue number 1

ELAB Reference			299963	299965	299967	299969	299971	299973	299975
Customer Reference									
Sample ID									
Sample Type			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location			A7.1	B7.1	C7.1	D7.1	E7.1	F7.1	G7.1
Sample Depth (m)									
Sampling Date			26/10/2022	26/10/2022	26/10/2022	26/10/2022	26/10/2022	26/10/2022	26/10/2022
Tests	Units	LOD							
	%	0.1	9.9	11.8	10.8	12.8	10.6	11.2	12.5
	%	0.1	13.1	7.1	6.2	7.9	6.1	6.2	9.2
		0	Stones	Stones	Stones	Stones/Brick/Clinker	Stones/Clinker	Stones/Clinker	Stones/Clinker
	mg/kg	0.5	29.6	25.0	27.0	24.0	21.2	20.4	24.9
	mg/kg	0.2	0.4	0.4	0.4	0.5	0.3	0.3	0.4
	mg/kg	1	40.8	35.4	35.2	35.3	25.8	22.5	32.1
	mg/kg	4	30.6	27.5	31.4	30.9	35.7	34.6	48.5
	mg/kg	1	63.3	58.7	80.9	103	117	180	200
	mg/kg	0.1	0.2	0.2	0.7	0.4	0.4	0.4	0.4
	mg/kg	1	33.5	29.0	27.6	26.8	21.8	20.8	28.4
	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.1
	mg/kg	0.5	63.3	53.5	56.3	52.1	43.0	35.1	46.0
	mg/kg	4.5	103	93.8	103	115	86.2	109	118
	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	mol/kg	0.1	< 0.1	n/t	n/t	n/t	< 0.1	n/t	n/t
	%	0.01	5.78	n/t	n/t	n/t	6.54	n/t	n/t
	pH units	0.1	8.3	8.1	8.0	8.0	8.1	7.9	8.0
	%	0.01	1.2	n/t	n/t	n/t	1.9	n/t	n/t



Results Summary

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Report No.: 22-44334, issue number 1

ELAB Reference	299963	299965	299967	299969	299971	299973	299975
Customer Reference							
Sample ID							
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	A7.1	B7.1	C7.1	D7.1	E7.1	F7.1	G7.1
Sample Depth (m)							
Sampling Date	26/10/2022	26/10/2022	26/10/2022	26/10/2022	26/10/2022	26/10/2022	26/10/2022

Determinand	Codes	Units	LOD							
Phenols										
Phenol	M	mg/kg	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
M,P-Cresol	N	mg/kg	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
O-Cresol	N	mg/kg	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
3,4-Dimethylphenol	N	mg/kg	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,3-Dimethylphenol	M	mg/kg	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,3,5-trimethylphenol	M	mg/kg	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Total Monohydric Phenols	N	mg/kg	5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Polyaromatic hydrocarbons										
Naphthalene	M	mg/kg	0.1	< 0.1	n/t	n/t	n/t	< 0.1	n/t	n/t
Acenaphthylene	M	mg/kg	0.1	< 0.1	n/t	n/t	n/t	< 0.1	n/t	n/t
Acenaphthene	M	mg/kg	0.1	< 0.1	n/t	n/t	n/t	< 0.1	n/t	n/t
Fluorene	M	mg/kg	0.1	< 0.1	n/t	n/t	n/t	< 0.1	n/t	n/t
Phenanthrene	M	mg/kg	0.1	< 0.1	n/t	n/t	n/t	< 0.1	n/t	n/t
Anthracene	M	mg/kg	0.1	< 0.1	n/t	n/t	n/t	< 0.1	n/t	n/t
Fluoranthene	M	mg/kg	0.1	0.2	n/t	n/t	n/t	0.2	n/t	n/t
Pyrene	M	mg/kg	0.1	0.2	n/t	n/t	n/t	0.2	n/t	n/t
Benzo(a)anthracene	M	mg/kg	0.1	< 0.1	n/t	n/t	n/t	0.1	n/t	n/t
Chrysene	M	mg/kg	0.1	< 0.1	n/t	n/t	n/t	0.1	n/t	n/t
Benzo(b)fluoranthene	M	mg/kg	0.1	< 0.1	n/t	n/t	n/t	0.2	n/t	n/t
Benzo(k)fluoranthene	M	mg/kg	0.1	< 0.1	n/t	n/t	n/t	0.2	n/t	n/t
Benzo(a)pyrene	M	mg/kg	0.1	< 0.1	n/t	n/t	n/t	0.2	n/t	n/t
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	< 0.1	n/t	n/t	n/t	0.1	n/t	n/t
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1	n/t	n/t	n/t	< 0.1	n/t	n/t
Benzo[g,h,i]perylene	M	mg/kg	0.1	< 0.1	n/t	n/t	n/t	0.1	n/t	n/t
Total PAH(16)	M	mg/kg	0.4	0.5	n/t	n/t	n/t	1.7	n/t	n/t
Total (of 17) PAHs	N	mg/kg	2	< 2	n/t	n/t	n/t	< 2	n/t	n/t



Results Summary

2683

Report No.: 22-44334, issue number 1

ELAB Reference	299963	299965	299967	299969	299971	299973	299975
Customer Reference							
Sample ID							
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	A7.1	B7.1	C7.1	D7.1	E7.1	F7.1	G7.1
Sample Depth (m)							
Sampling Date	26/10/2022	26/10/2022	26/10/2022	26/10/2022	26/10/2022	26/10/2022	26/10/2022
Determinand	Codes	Units	LOD				
BTEX							
Benzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0
Toluene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0
Ethylbenzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0
Xylenes	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0
MTBE	U	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0
Total BTEX	N	mg/kg	0.01	< 0.01	n/t	n/t	n/t
TPH CWG							
>C5-C6 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C6-C8 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aliphatic (HS_1D_MS+EH_2D_AL)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
>C10-C12 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
>C12-C16 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
>C16-C21 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
>C21-C35 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	2.6	< 1.0	< 1.0
>C35-C40 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
Total aliphatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AL)	N	mg/kg	1	< 1.0	3.3	< 1.0	< 1.0
>C5-C7 Aromatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C7-C8 Aromatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aromatic (HS_1D_MS+EH_2D_AR)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
>C10-C12 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
>C12-C16 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
>C16-C21 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
>C21-C35 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	1.8	< 1.0	< 1.0
>C35-C40 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
Total aromatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AR)	N	mg/kg	1	< 1.0	2.7	< 1.0	< 1.0
Total petroleum hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_Total)	N	mg/kg	1	< 1.0	6.0	< 1.0	< 1.0
Total Petroleum Hydrocarbons							
Mineral Oil w Florisil (EH_CU_1D_Total)	N	mg/kg	5	< 5	n/t	n/t	n/t
PCB (ICES 7 congeners)							
Total PCBs (7 congeners)	M	mg/kg	0.03	< 0.03	n/t	n/t	n/t

Results Summary

Report No.: 22-44334, issue number 1

ELAB Reference				299963	299965	299967	299969	299971	299973	299975
Customer Reference										
Sample ID										
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				A7.1	B7.1	C7.1	D7.1	E7.1	F7.1	G7.1
Sample Depth (m)										
Sampling Date				26/10/2022	26/10/2022	26/10/2022	26/10/2022	26/10/2022	26/10/2022	26/10/2022
Determinand	Codes	Units	LOD							
Organics										
Coal tar	N	%	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
SVOC										
Phenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bis(2-chloroethyl)ether	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Chlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,3-Dichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,4-Dichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzyl Alcohol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-Dichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Methylphenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bis(2-chloroisopropyl)ether	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
3 and 4-methylphenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
N-Nitrosodi-n-propylamine	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachloroethane	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Nitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Isophorone	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Nitrophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-Dimethylphenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bis(2-chloroethoxy)methane	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-Dichlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,3,5-Trichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Naphthalene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	0.02	< 0.01	0.03	0.02
3-Chloroaniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachloro-1,3-butadiene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
4-Chloro-3-methylphenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Methylnaphthalene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.02	< 0.01
1-Methylnaphthalene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.01	< 0.01
Hexachlorocyclopentadiene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4,6-Trichlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4,5-Trichlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1-Chloronaphthalene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Nitroaniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,4-Dinitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dimethyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1-3-dinitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-6-dinitrotoluene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthylene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	0.04	0.01	0.05	0.05
1,2-Dinitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
3-Nitroaniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	0.04	< 0.01	< 0.01	< 0.01
4-nitrophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenzofuran	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	0.01	< 0.01	0.01	< 0.01
2,3,5,6-Tetrachlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,3,4,6-Tetrachlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Diethyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1-chloro-4-phenoxybenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	0.02	< 0.01	0.02	< 0.01
4-Nitroaniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dinitro-o-cresol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Diphenylamine	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Azobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1-bromo-4-phenoxybenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

Tests marked N are not UKAS accredited.

Results Summary

2683

Report No.: 22-44334, issue number 1

ELAB Reference				299963	299965	299967	299969	299971	299973	299975
Customer Reference										
Sample ID										
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				A7.1	B7.1	C7.1	D7.1	E7.1	F7.1	G7.1
Sample Depth (m)										
Sampling Date				26/10/2022	26/10/2022	26/10/2022	26/10/2022	26/10/2022	26/10/2022	26/10/2022
Determinand	Codes	Units	LOD							
Organics										
Hexachlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Pentachlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	N	mg/kg	0.01	0.01	0.02	0.01	0.19	0.03	0.24	0.09
Anthracene	N	mg/kg	0.01	0.01	0.01	< 0.01	0.20	0.02	0.11	0.05
Carbazole	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	0.01	< 0.01	0.03	< 0.01
Dibutyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	N	mg/kg	0.01	0.07	0.07	0.06	1.21	0.15	0.77	0.72
Pyrene	N	mg/kg	0.01	0.08	0.07	0.06	1.27	0.15	0.80	0.77
Butyl benzyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bis-2-ethylhexyladipate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Diisooctyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)anthracene	N	mg/kg	0.01	0.05	0.02	0.03	0.67	0.09	0.40	0.46
Chrysene	N	mg/kg	0.01	0.08	0.06	0.07	0.79	0.13	0.46	0.54
Bis(2-ethylhexyl)phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	N	mg/kg	0.01	0.07	0.05	0.06	0.77	0.11	0.54	0.48
Benzo(k)fluoranthene	N	mg/kg	0.01	0.06	0.04	0.06	0.76	0.10	0.38	0.49
Benzo(a)pyrene	N	mg/kg	0.01	0.06	0.04	0.05	0.93	0.11	0.51	0.58
Indeno(1,2,3-cd)pyrene	N	mg/kg	0.01	0.04	0.03	0.04	0.55	0.08	0.37	0.43
Dibenzo(a,h)anthracene	N	mg/kg	0.01	0.02	0.01	0.01	0.19	0.03	0.11	0.16
Benzo[g,h,i]perylene	N	mg/kg	0.01	0.06	0.05	0.05	0.72	0.12	0.47	0.53

Results Summary

Report No.: 22-44334, issue number 1

WAC Analysis

Elab Ref:	299971					Landfill Waste Acceptance Criteria Limits*		
Sample Date:	26/10/2022					Inert Waste Landfill	Stable Non-reactive Hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:	E7.1							
Depth (m)								
Site:	River Academy							
Determinand		Code	Units					
Total Organic Carbon		N	%		1.90	3	5	6
Loss on Ignition		M	%		6.5	--	--	10
Total BTEX		M	mg/kg		< 0.01	6	--	--
Total PCBs (7 congeners)		M	mg/kg		< 0.03	1	--	--
TPH Total WAC (EH_CU_1D_Total)		N	mg/kg		< 5	500	--	--
Total (of 17) PAHs		N	mg/kg		< 2	100	--	--
pH		M			8.1	--	>6	--
Acid Neutralisation Capacity		N	mol/kg		< 0.1	--	To evaluate	To evaluate

Eluate Analysis

			10:1	10:1	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg		
			mg/l	mg/kg			
Arsenic		N	< 0.005	< 0.05	0.5	2	25
Barium		N	0.006	0.06	20	100	300
Cadmium		N	< 0.001	< 0.01	0.04	1	5
Chromium		N	< 0.005	< 0.05	0.5	10	70
Copper		N	0.006	0.06	2	50	100
Mercury		N	< 0.005	< 0.01	0.01	0.2	2
Molybdenum		N	< 0.005	< 0.05	0.5	10	30
Nickel		N	0.001	< 0.05	0.4	10	40
Lead		N	< 0.001	< 0.05	0.5	10	50
Antimony		N	< 0.005	< 0.05	0.06	0.7	5
Selenium		N	< 0.005	< 0.05	0.1	0.5	7
Zinc		N	0.011	0.11	4	50	200
Chloride		N	< 5	< 50	800	15000	25000
Fluoride		N	< 5	< 10	10	150	500
Sulphate		N	1	13.80	1000	20000	50000
Total Dissolved Solids		N	58	583.00	4000	60000	100000
Phenol Index		N	< 0.01	< 0.10	1	-	-
Dissolved Organic Carbon		N	8.150	82.00	500	800	1000

Leach Test Information

pH		N	7.3				
Conductivity (uS/cm)		N	87				
Dry mass of test portion (g)			102.000				
Dry Matter (%)			85				
Moisture (%)			18				
Eluent Volume (ml)			976				

Results are expressed on a dry weight basis, after correction for moisture content where applicable

* Stated limits are for guidance only, and not for conformity assessment.

Results Summary

Report No.: 22-44334, issue number 1

WAC Analysis

Elab Ref:	299963					Landfill Waste Acceptance Criteria Limits*		
Sample Date:	26/10/2022					Inert Waste Landfill	Stable Non-reactive Hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:	A7.1							
Depth (m)								
Site:	River Academy							
Determinand		Code	Units					
Total Organic Carbon		N	%		1.20	3	5	6
Loss on Ignition		M	%		5.8	--	--	10
Total BTEX		M	mg/kg		< 0.01	6	--	--
Total PCBs (7 congeners)		M	mg/kg		< 0.03	1	--	--
TPH Total WAC (EH_CU_1D_Total)		N	mg/kg		< 5	500	--	--
Total (of 17) PAHs		N	mg/kg		< 2	100	--	--
pH		M			8.3	--	>6	--
Acid Neutralisation Capacity		N	mol/kg		< 0.1	--	To evaluate	To evaluate

Eluate Analysis

			10:1	10:1	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg		
			mg/l	mg/kg			
Arsenic		N	< 0.005	< 0.05	0.5	2	25
Barium		N	< 0.005	< 0.05	20	100	300
Cadmium		N	< 0.001	< 0.01	0.04	1	5
Chromium		N	< 0.005	< 0.05	0.5	10	70
Copper		N	< 0.005	< 0.05	2	50	100
Mercury		N	< 0.005	< 0.01	0.01	0.2	2
Molybdenum		N	< 0.005	< 0.05	0.5	10	30
Nickel		N	0.001	< 0.05	0.4	10	40
Lead		N	< 0.001	< 0.05	0.5	10	50
Antimony		N	< 0.005	< 0.05	0.06	0.7	5
Selenium		N	< 0.005	< 0.05	0.1	0.5	7
Zinc		N	0.006	0.06	4	50	200
Chloride		N	< 5	< 50	800	15000	25000
Fluoride		N	< 5	< 10	10	150	500
Sulphate		N	< 1	< 10.0	1000	20000	50000
Total Dissolved Solids		N	42	422.00	4000	60000	100000
Phenol Index		N	< 0.01	< 0.10	1	-	-
Dissolved Organic Carbon		N	7.190	72.00	500	800	1000

Leach Test Information

pH		N	7.2				
Conductivity (uS/cm)		N	63				
Dry mass of test portion (g)			104.000				
Dry Matter (%)			86				
Moisture (%)			16				
Eluent Volume (ml)			995				

Results are expressed on a dry weight basis, after correction for moisture content where applicable

* Stated limits are for guidance only, and not for conformity assessment.



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Results Summary

Report No.: 22-44334, issue number 1

Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #) in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos Identification	Gravimetric Analysis Total (%)	Gravimetric Analysis by ACM Type (%)	Free Fibre Analysis (%)	Total Asbestos (%)
299963		A7.1	Brown Sandy Soil, Stones, Clinker, Glass, Organics	No asbestos detected	n/t	n/t	n/t	n/t
299964		A7.1.2	Brown Sandy Soil, Stones, Clinker, Organics	No asbestos detected	n/t	n/t	n/t	n/t
299965		B7.1	Brown Sandy Soil, Stones, Clinker, Organics	No asbestos detected	n/t	n/t	n/t	n/t
299966		B7.1.2	Brown Sandy Soil, Stones, Clinker, Organics	No asbestos detected	n/t	n/t	n/t	n/t
299967		C7.1	Brown Sandy Soil, Stones, Clinker, Organics	No asbestos detected	n/t	n/t	n/t	n/t
299968		C7.1.2	Brown Sandy Soil, Stones, Clinker, Brick, Organics	No asbestos detected	n/t	n/t	n/t	n/t
299969		D7.1	Brown Sandy Soil, Stones, Clinker, Organics	No asbestos detected	n/t	n/t	n/t	n/t
299970		D7.1.2	Brown Sandy Soil, Stones, Clinker, Brick, Organics	No asbestos detected	n/t	n/t	n/t	n/t
299971		E7.1	Brown Sandy Soil, Stones, Clinker, Organics	No asbestos detected	n/t	n/t	n/t	n/t
299972		E7.1.2	Brown Sandy Soil, Stones, Clinker, Brick, Glass, Organics	No asbestos detected	n/t	n/t	n/t	n/t
299973		F7.1	Brown Sandy Soil, Stones, Clinker, Brick, Organics	No asbestos detected	n/t	n/t	n/t	n/t
299974		F7.1.2	Brown Sandy Soil, Stones, Clinker, Brick, Organics	No asbestos detected	n/t	n/t	n/t	n/t
299975		G7.1	Brown Sandy Soil, Stones, Clinker, Organics	No asbestos detected	n/t	n/t	n/t	n/t
299976		G7.1.2	Brown Sandy Soil, Stones, Clinker, Chalk, Organics	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

Report No.: 22-44334, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
SVOC in solids	N	As submitted sample	01/11/2022		GC-MS
Phenols in solids	M	As submitted sample	01/11/2022	121	HPLC
SVOC in solids	N	As submitted sample	01/11/2022	167	GC-MS
Low range Aliphatic hydrocarbons soil	N	As submitted sample	03/11/2022	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	03/11/2022	181	GC-MS
Total cyanide	M	As submitted sample	01/11/2022	204	Colorimetry
TPH CWG soil by gc-gc	M	As submitted sample	01/11/2022	271	
Asbestos identification	U	Air dried sample	07/11/2022	280	Microscopy
Aqua regia extractable metals	M	Air dried sample	02/11/2022	300	ICPMS
Leachate					
Arsenic	N		03/11/2022	301	ICPMS
Cadmium	N		03/11/2022	301	ICPMS
Chromium	N		03/11/2022	301	ICPMS
Lead	N		03/11/2022	301	ICPMS
Nickel	N		03/11/2022	301	ICPMS
Copper	N		03/11/2022	301	ICPMS
Zinc	N		03/11/2022	301	ICPMS
Mercury	N		03/11/2022	301	ICPMS
Selenium	N		03/11/2022	301	ICPMS
Antimony	N		03/11/2022	301	ICPMS
Barium	N		03/11/2022	301	ICPMS
Molybdenum	N		03/11/2022	301	ICPMS
pH Value	N		03/11/2022	113	Electrometric
Electrical Conductivity	N		03/11/2022	136	Probe
Dissolved Organic Carbon	N		03/11/2022	102	TOC analyser
Chloride	N		03/11/2022	131	Ion Chromatography
Fluoride	N		03/11/2022	131	Ion Chromatography
Sulphate	N		03/11/2022	131	Ion Chromatography
Total Dissolved Solids	N		03/11/2022	144	Gravimetric
Phenol index	N		03/11/2022	121	HPLC
WAC Solids analysis	N				
pH	M	Air dried sample	02/11/2022	113	Electrometric
Total Organic Carbon	N	Air dried sample	02/11/2022	210	IR
Loss on Ignition	M	Air dried sample	02/11/2022	129	Gravimetric
Acid Neutralisation Capacity	N	Air dried sample	02/11/2022	NEN 737	Electrometric
Total BTEX	M	As submitted sample	03/11/2022	181	GCMS
Mineral Oil (EH_CU_1D_Total)	N	As submitted sample	07/11/2022	117	GCFID
Total PCBs (7 congeners)	M	Air dried sample	01/11/2022	120	GCMS
Total (of 17) PAHs	N	As submitted sample	02/11/2022	133	GCFID

Tests marked N are not UKAS accredited

Report Information

Report No.: 22-44334, issue number 1

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"
LOD	LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination. Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed. ELAB are unable to provide an interpretation or opinion on the content of this report. The results relate only to the sample received. PCB congener results may include any coeluting PCBs Uncertainty of measurement for the determinands tested are available upon request Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Deviation Codes

a	No date of sampling supplied
b	No time of sampling supplied (Waters Only)
c	Sample not received in appropriate containers
d	Sample not received in cooled condition
e	The container has been incorrectly filled
f	Sample age exceeds stability time (sampling to receipt)
g	Sample age exceeds stability time (sampling to analysis)

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month
 All water samples will be retained for 7 days following the date of the test report
 Charges may apply to extended sample storage

TPH Classification - HWOL Acronym System

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



2683



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THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 22-44335

Issue: 1

Date of Issue: 07/11/2022

Contact: David Skinner

Customer Details: Toureen Contractors Ltd
25 Cecil Road
Harrow
Middlesex HA3 5QY

Quotation No: Q22-03340

Order No: Not Supplied

Customer Reference: TCL1121

Date Received: 31/10/2022

Date Approved: 07/11/2022

Details: River Academy

Approved by: 

Mike Varley, General Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

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Sample Summary

Report No.: 22-44335, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
299977	H7.1	26/10/2022	31/10/2022	Sandy loam	
299978	H7.1.2	26/10/2022	31/10/2022		
299979	I7.1	26/10/2022	31/10/2022	Sandy loam	
299980	I7.1.2	26/10/2022	31/10/2022		
299981	J7.1	26/10/2022	31/10/2022	Sandy silty loam	
299982	J7.1.2	26/10/2022	31/10/2022		
299983	K7.1	26/10/2022	31/10/2022	Sandy silty loam	
299984	K7.1.2	26/10/2022	31/10/2022		
299985	L7.1	26/10/2022	31/10/2022	Sandy silty loam	
299986	L7.1.2	26/10/2022	31/10/2022		



Results Summary

Report No.: 22-44335, issue number 1

ELAB Reference	299977	299979	299981	299983	299985
Customer Reference					
Sample ID					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	H7.1	I7.1	J7.1	K7.1	L7.1
Sample Depth (m)					
Sampling Date	26/10/2022	26/10/2022	26/10/2022	26/10/2022	26/10/2022
Determinand	Codes	Units	LOD		
Soil sample preparation parameters					
Moisture Content	N	%	0.1	10.4	8.9
Material removed	N	%	0.1	7.5	8.3
Description of Inert material removed	N		0	Stones	Stones/Clinker
Metals					
Arsenic	M	mg/kg	0.5	30.6	42.1
Cadmium	M	mg/kg	0.2	0.5	0.6
Chromium	M	mg/kg	1	38.7	44.3
Copper	M	mg/kg	4	52.5	54.0
Lead	M	mg/kg	1	130	119
Mercury	M	mg/kg	0.1	0.4	0.3
Nickel	M	mg/kg	1	32.7	45.3
Selenium	M	mg/kg	1	< 1.0	< 1.0
Vanadium	M	mg/kg	0.5	60.7	73.4
Zinc	M	mg/kg	4.5	181	143
Inorganics					
Total Cyanide	M	mg/kg	1	< 1.0	< 1.0
Miscellaneous					
Acid Neutralisation Capacity	N	mol/kg	0.1	n/t	< 0.1
Loss on Ignition	M	%	0.01	n/t	4.92
pH	M	pH units	0.1	8.1	8.1
Total Organic Carbon	N	%	0.01	n/t	1.1



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Results Summary

Report No.: 22-44335, issue number 1

ELAB Reference			299977	299979	299981	299983	299985
Customer Reference							
Sample ID							
Sample Type			SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location			H7.1	I7.1	J7.1	K7.1	L7.1
Sample Depth (m)							
Sampling Date			26/10/2022	26/10/2022	26/10/2022	26/10/2022	26/10/2022
ns	Units	LOD					
	mg/kg	1	< 1	< 1	< 1	< 1	< 1
	mg/kg	1	< 1	< 1	< 1	< 1	< 1
	mg/kg	1	< 1	< 1	< 1	< 1	< 1
	mg/kg	1	< 1	< 1	< 1	< 1	< 1
	mg/kg	1	< 1	< 1	< 1	< 1	< 1
	mg/kg	1	< 1	< 1	< 1	< 1	< 1
	mg/kg	5	< 5	< 5	< 5	< 5	< 5
	mg/kg	0.1	n/t	< 0.1	n/t	n/t	n/t
	mg/kg	0.1	n/t	< 0.1	n/t	n/t	n/t
	mg/kg	0.1	n/t	< 0.1	n/t	n/t	n/t
	mg/kg	0.1	n/t	< 0.1	n/t	n/t	n/t
	mg/kg	0.1	n/t	< 0.1	n/t	n/t	n/t
	mg/kg	0.1	n/t	< 0.1	n/t	n/t	n/t
	mg/kg	0.1	n/t	< 0.1	n/t	n/t	n/t
	mg/kg	0.1	n/t	< 0.1	n/t	n/t	n/t
	mg/kg	0.1	n/t	< 0.1	n/t	n/t	n/t
	mg/kg	0.1	n/t	< 0.1	n/t	n/t	n/t
	mg/kg	0.1	n/t	< 0.1	n/t	n/t	n/t
	mg/kg	0.1	n/t	< 0.1	n/t	n/t	n/t
	mg/kg	0.1	n/t	< 0.1	n/t	n/t	n/t
	mg/kg	0.1	n/t	< 0.1	n/t	n/t	n/t
	mg/kg	0.4	n/t	< 0.4	n/t	n/t	n/t
	mg/kg	2	n/t	< 2	n/t	n/t	n/t



Results Summary

Report No.: 22-44335, issue number 1

ELAB Reference			299977	299979	299981	299983	299985
Customer Reference							
Sample ID							
Sample Type			SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location			H7.1	I7.1	J7.1	K7.1	L7.1
Sample Depth (m)							
Sampling Date			26/10/2022	26/10/2022	26/10/2022	26/10/2022	26/10/2022
ns	Units	LOD					
	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
	mg/kg	0.01	n/t	< 0.01	n/t	n/t	n/t
	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	mg/kg	1	3.4	< 1.0	1.8	3.6	< 1.0
	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	mg/kg	1	6.1	< 1.0	3.5	6.0	< 1.0
	mg/kg	1	6.9	< 1.0	4.0	7.0	< 1.0
	mg/kg	5	n/t	< 5	n/t	n/t	n/t
	mg/kg	0.03	n/t	< 0.03	n/t	n/t	n/t

Tests marked N are not UKAS accredited.

The Environmental Laboratory Ltd. Reg. No. 3882193

Results Summary

Report No.: 22-44335, issue number 1

ELAB Reference				299977	299979	299981	299983	299985
Customer Reference								
Sample ID								
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				H7.1	I7.1	J7.1	K7.1	L7.1
Sample Depth (m)								
Sampling Date				26/10/2022	26/10/2022	26/10/2022	26/10/2022	26/10/2022
Determinand	Codes	Units	LOD					
Organics								
Coal tar	N	%	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
SVOC								
Phenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bis(2-chloroethyl)ether	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Chlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,3-Dichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,4-Dichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzyl Alcohol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-Dichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Methylphenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bis(2-chloroisopropyl)ether	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
3 and 4-methylphenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
N-Nitrosodi-n-propylamine	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachloroethane	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Nitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Isophorone	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Nitrophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-Dimethylphenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bis(2-chloroethoxy)methane	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-Dichlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,3,5-Trichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Naphthalene	N	mg/kg	0.01	< 0.01	< 0.01	0.02	0.01	< 0.01
3-Chloroaniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachloro-1,3-butadiene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
4-Chloro-3-methylphenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Methylnaphthalene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1-Methylnaphthalene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachlorocyclopentadiene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4,6-Trichlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4,5-Trichlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1-Chloronaphthalene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Nitroaniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,4-Dinitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dimethyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1-3-dinitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-6-dinitrotoluene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthylene	N	mg/kg	0.01	0.01	< 0.01	0.04	0.03	0.02
1,2-Dinitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
3-Nitroaniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
4-nitrophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenzofuran	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,3,5,6-Tetrachlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,3,4,6-Tetrachlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Diethyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1-chloro-4-phenoxybenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
4-Nitroaniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dinitro-o-cresol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Diphenylamine	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Azobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1-bromo-4-phenoxybenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

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Results Summary

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Report No.: 22-44335, issue number 1

ELAB Reference				299977	299979	299981	299983	299985
Customer Reference								
Sample ID								
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				H7.1	I7.1	J7.1	K7.1	L7.1
Sample Depth (m)								
Sampling Date				26/10/2022	26/10/2022	26/10/2022	26/10/2022	26/10/2022
Determinand	Codes	Units	LOD					
Organics								
Hexachlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Pentachlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	N	mg/kg	0.01	0.02	< 0.01	0.10	0.06	0.04
Anthracene	N	mg/kg	0.01	0.01	< 0.01	0.05	0.04	0.03
Carbazole	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibutyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	N	mg/kg	0.01	0.10	0.03	0.46	0.36	0.25
Pyrene	N	mg/kg	0.01	0.10	0.03	0.48	0.38	0.26
Butyl benzyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bis-2-ethylhexyladipate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Diisooctyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)anthracene	N	mg/kg	0.01	0.06	0.03	0.24	0.23	0.18
Chrysene	N	mg/kg	0.01	0.10	0.03	0.30	0.33	0.25
Bis(2-ethylhexyl)phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	N	mg/kg	0.01	0.10	0.03	0.36	0.39	0.26
Benzo(k)fluoranthene	N	mg/kg	0.01	0.08	0.04	0.29	0.35	0.24
Benzo(a)pyrene	N	mg/kg	0.01	0.08	0.03	0.30	0.33	0.26
Indeno(1,2,3-cd)pyrene	N	mg/kg	0.01	0.07	0.03	0.23	0.29	0.21
Dibenzo(a,h)anthracene	N	mg/kg	0.01	0.03	< 0.01	0.07	0.09	0.07
Benzo[g,h,i]perylene	N	mg/kg	0.01	0.10	0.04	0.30	0.39	0.27

Results Summary

Report No.: 22-44335, issue number 1

WAC Analysis

Elab Ref:	299979					Landfill Waste Acceptance Criteria Limits*		
Sample Date:	26/10/2022					Inert Waste Landfill	Stable Non-reactive Hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:	I7.1							
Depth (m)								
Site:	River Academy							
Determinand		Code	Units					
Total Organic Carbon		N	%		1.10	3	5	6
Loss on Ignition		M	%		4.9	--	--	10
Total BTEX		M	mg/kg		< 0.01	6	--	--
Total PCBs (7 congeners)		M	mg/kg		< 0.03	1	--	--
TPH Total WAC (EH_CU_1D_Total)		N	mg/kg		< 5	500	--	--
Total (of 17) PAHs		N	mg/kg		< 2	100	--	--
pH		M			8.1	--	>6	--
Acid Neutralisation Capacity		N	mol/kg		< 0.1	--	To evaluate	To evaluate

Eluate Analysis

			10:1	10:1	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg		
			mg/l	mg/kg			
Arsenic		N	< 0.005	< 0.05	0.5	2	25
Barium		N	0.007	0.07	20	100	300
Cadmium		N	< 0.001	< 0.01	0.04	1	5
Chromium		N	< 0.005	< 0.05	0.5	10	70
Copper		N	< 0.005	< 0.05	2	50	100
Mercury		N	< 0.005	< 0.01	0.01	0.2	2
Molybdenum		N	< 0.005	< 0.05	0.5	10	30
Nickel		N	< 0.001	< 0.05	0.4	10	40
Lead		N	< 0.001	< 0.05	0.5	10	50
Antimony		N	< 0.005	< 0.05	0.06	0.7	5
Selenium		N	< 0.005	< 0.05	0.1	0.5	7
Zinc		N	< 0.005	< 0.05	4	50	200
Chloride		N	< 5	< 50	800	15000	25000
Fluoride		N	< 5	< 10	10	150	500
Sulphate		N	4	36.20	1000	20000	50000
Total Dissolved Solids		N	53	525.00	4000	60000	100000
Phenol Index		N	< 0.01	< 0.10	1	-	-
Dissolved Organic Carbon		N	6.280	63.00	500	800	1000

Leach Test Information

pH		N	7.4				
Conductivity (uS/cm)		N	78				
Dry mass of test portion (g)			102.000				
Dry Matter (%)			90				
Moisture (%)			12				
Eluent Volume (ml)			977				

Results are expressed on a dry weight basis, after correction for moisture content where applicable

* Stated limits are for guidance only, and not for conformity assessment.



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Results Summary

Report No.: 22-44335, issue number 1

Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #) in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos Identification	Gravimetric Analysis Total (%)	Gravimetric Analysis by ACM Type (%)	Free Fibre Analysis (%)	Total Asbestos (%)
299977		H7.1	Brown sandy soil, stones, brick, clinker, organics	No asbestos detected	n/t	n/t	n/t	n/t
299978		H7.1.2	Brown sandy soil, stones, clinker, organics	No asbestos detected	n/t	n/t	n/t	n/t
299979		I7.1	Brown sandy soil, stones, clinker, organics	No asbestos detected	n/t	n/t	n/t	n/t
299980		I7.1.2	Brown sandy soil, stones, clinker, glass, organics	No asbestos detected	n/t	n/t	n/t	n/t
299981		J7.1	Brown sandy soil, stones, brick, clinker, glass, organics	No asbestos detected	n/t	n/t	n/t	n/t
299982		J7.1.2	Brown sandy soil, stones, brick, clinker, organics	No asbestos detected	n/t	n/t	n/t	n/t
299983		K7.1	Brown sandy soil, stones, clinker, chalk, organics	No asbestos detected	n/t	n/t	n/t	n/t
299984		K7.1.2	Brown sandy soil, stones, brick, clinker, glass, organics	No asbestos detected	n/t	n/t	n/t	n/t
299985		L7.1	Brown sandy soil, stones, clinker, organics	No asbestos detected	n/t	n/t	n/t	n/t
299986		L7.1.2	Brown sandy soil, stones, brick, clinker, organics	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

Report No.: 22-44335, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
SVOC in solids	N	As submitted sample	01/11/2022		GC-MS
Phenols in solids	M	As submitted sample	01/11/2022	121	HPLC
SVOC in solids	N	As submitted sample	01/11/2022	167	GC-MS
Low range Aliphatic hydrocarbons soil	N	As submitted sample	03/11/2022	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	03/11/2022	181	GC-MS
Total cyanide	M	As submitted sample	01/11/2022	204	Colorimetry
TPH CWG soil by gc-gc	M	As submitted sample	01/11/2022	271	
Asbestos identification	U	Air dried sample	04/11/2022	280	Microscopy
Aqua regia extractable metals	M	Air dried sample	02/11/2022	300	ICPMS
Leachate					
Arsenic	N		03/11/2022	301	ICPMS
Cadmium	N		03/11/2022	301	ICPMS
Chromium	N		03/11/2022	301	ICPMS
Lead	N		03/11/2022	301	ICPMS
Nickel	N		03/11/2022	301	ICPMS
Copper	N		03/11/2022	301	ICPMS
Zinc	N		03/11/2022	301	ICPMS
Mercury	N		03/11/2022	301	ICPMS
Selenium	N		03/11/2022	301	ICPMS
Antimony	N		03/11/2022	301	ICPMS
Barium	N		03/11/2022	301	ICPMS
Molybdenum	N		03/11/2022	301	ICPMS
pH Value	N		03/11/2022	113	Electrometric
Electrical Conductivity	N		03/11/2022	136	Probe
Dissolved Organic Carbon	N		03/11/2022	102	TOC analyser
Chloride	N		03/11/2022	131	Ion Chromatography
Fluoride	N		03/11/2022	131	Ion Chromatography
Sulphate	N		03/11/2022	131	Ion Chromatography
Total Dissolved Solids	N		03/11/2022	144	Gravimetric
Phenol index	N		03/11/2022	121	HPLC
WAC Solids analysis	N				
pH	M	Air dried sample	02/11/2022	113	Electrometric
Total Organic Carbon	N	Air dried sample	02/11/2022	210	IR
Loss on Ignition	M	Air dried sample	02/11/2022	129	Gravimetric
Acid Neutralisation Capacity	N	Air dried sample	02/11/2022	NEN 737	Electrometric
Total BTEX	M	As submitted sample	03/11/2022	181	GCMS
Mineral Oil (EH_CU_1D_Total)	N	As submitted sample	07/11/2022	117	GCFID
Total PCBs (7 congeners)	M	Air dried sample	01/11/2022	120	GCMS
Total (of 17) PAHs	N	As submitted sample	02/11/2022	133	GCFID

Tests marked N are not UKAS accredited

Report Information

Report No.: 22-44335, issue number 1

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"
LOD	LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination. Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed. ELAB are unable to provide an interpretation or opinion on the content of this report. The results relate only to the sample received. PCB congener results may include any coeluting PCBs Uncertainty of measurement for the determinands tested are available upon request Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Deviation Codes

a	No date of sampling supplied
b	No time of sampling supplied (Waters Only)
c	Sample not received in appropriate containers
d	Sample not received in cooled condition
e	The container has been incorrectly filled
f	Sample age exceeds stability time (sampling to receipt)
g	Sample age exceeds stability time (sampling to analysis)

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month
 All water samples will be retained for 7 days following the date of the test report
 Charges may apply to extended sample storage

TPH Classification - HWOL Acronym System

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



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THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 22-44812

Issue: 1

Date of Issue: 25/11/2022

Contact: David Skinner

Customer Details: Toureen Contractors Ltd
25 Cecil Road
Harrow
Middlesex HA3 5QY

Quotation No: Q22-03340

Order No: Not Supplied

Customer Reference: TCL1121

Date Received: 18/11/2022

Date Approved: 25/11/2022

Details: River Academy

Approved by: 

Mike Varley, General Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

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Sample Summary

Report No.: 22-44812, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
302319	A8.1	17/11/2022	18/11/2022	Silty loam	
302320	A8.1.2	17/11/2022	18/11/2022		
302321	B8.1	17/11/2022	18/11/2022	Sandy silty loam	
302322	B8.1.2	17/11/2022	18/11/2022		
302323	C8.1	17/11/2022	18/11/2022	Sandy silty loam	
302324	C8.1.2	17/11/2022	18/11/2022		
302325	D8.1	17/11/2022	18/11/2022	Silty loam	
302326	D8.1.2	17/11/2022	18/11/2022		
302327	E8.1	17/11/2022	18/11/2022	Sandy silty loam	
302328	E8.1.2	17/11/2022	18/11/2022		
302329	F8.1	17/11/2022	18/11/2022	Silty loam	
302330	F8.1.2	17/11/2022	18/11/2022		
302331	G8.1	17/11/2022	18/11/2022	Silty loam	
302332	G8.1.2	17/11/2022	18/11/2022		
302333	H8.1	17/11/2022	18/11/2022	Sandy silty loam	
302334	H8.1.2	17/11/2022	18/11/2022		
302335	I8.1	17/11/2022	18/11/2022	Silty loam	
302336	I8.1.2	17/11/2022	18/11/2022		
302337	J8.1	17/11/2022	18/11/2022	Silty loam	
302338	J8.1.2	17/11/2022	18/11/2022		
302339	K8.1	17/11/2022	18/11/2022	Silty loam	
302340	K8.1.2	17/11/2022	18/11/2022		
302341	L8.1	17/11/2022	18/11/2022	Silty loam	
302342	L8.1.2	17/11/2022	18/11/2022		
302343	LN12.1	17/11/2022	18/11/2022	Sandy silty loam	
302344	JN12.1.2	17/11/2022	18/11/2022		
302345	LN35.1	17/11/2022	18/11/2022	Silty loam	
302346	LN35.1.2	17/11/2022	18/11/2022		
302347	LN68.1	17/11/2022	18/11/2022	Sandy silty loam	
302348	LN68.1.2	17/11/2022	18/11/2022		

Results Summary

2683

Report No.: 22-44812, issue number 1

ELAB Reference			302319	302321	302323	302325	302327	302329	302331	302333
Customer Reference										
Sample ID										
Sample Type			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location			A8.1	B8.1	C8.1	D8.1	E8.1	F8.1	G8.1	H8.1
Sample Depth (m)										
Sampling Date			17/11/2022	17/11/2022	17/11/2022	17/11/2022	17/11/2022	17/11/2022	17/11/2022	17/11/2022
es	Units	LOD								
	%	0.1	9.3	10.2	12.1	10.5	12.2	12.0	15.0	12.5
	%	0.1	6.8	10.0	9.3	8.9	7.9	8.0	5.3	5.9
		0	Stones/Clinker	Stones/Brick	Stones/Brick/Clinker	Stones/Brick/Clinker	Stones	Stones/Clinker	Stones/Brick	Stones/Brick/Clinker
	mg/kg	0.5	28.0	25.5	30.6	26.6	24.8	29.0	22.6	25.1
	mg/kg	0.2	0.4	0.4	3.1	0.5	0.4	0.7	0.5	0.4
	mg/kg	1	41.4	34.3	44.5	40.6	38.2	45.8	36.5	38.2
	mg/kg	4	45.3	41.9	59.5	45.6	48.6	103	47.8	45.7
	mg/kg	1	126	117	131	122	129	1160	138	248
	mg/kg	0.1	0.4	0.4	0.6	0.4	0.4	0.6	0.4	0.3
	mg/kg	1	35.2	30.8	37.2	34.0	30.6	41.4	28.4	30.9
	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	mg/kg	0.5	61.5	53.8	68.9	61.9	54.5	64.9	52.1	57.5
	mg/kg	4.5	171	152	186	171	184	329	167	161
	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	mol/kg	0.1	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
	%	0.01	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
	pH units	0.1	7.3	7.4	7.5	7.7	7.7	7.8	7.9	7.9
	%	0.01	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t



Results Summary

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Report No.: 22-44812, issue number 1

ELAB Reference	302319	302321	302323	302325	302327	302329	302331	302333
Customer Reference								
Sample ID								
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	A8.1	B8.1	C8.1	D8.1	E8.1	F8.1	G8.1	H8.1
Sample Depth (m)								
Sampling Date	17/11/2022	17/11/2022	17/11/2022	17/11/2022	17/11/2022	17/11/2022	17/11/2022	17/11/2022

Determinand	Codes	Units	LOD								
Phenols											
Phenol	M	mg/kg	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
M,P-Cresol	N	mg/kg	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
O-Cresol	N	mg/kg	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
3,4-Dimethylphenol	N	mg/kg	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,3-Dimethylphenol	M	mg/kg	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,3,5-trimethylphenol	M	mg/kg	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Total Monohydric Phenols	N	mg/kg	5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Polyaromatic hydrocarbons											
Naphthalene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Acenaphthylene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Acenaphthene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Fluorene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Phenanthrene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Anthracene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Fluoranthene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Pyrene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Benzo(a)anthracene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Chrysene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Benzo(b)fluoranthene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Benzo(k)fluoranthene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Benzo(a)pyrene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Dibenzo(a,h)anthracene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Benzo[g,h,i]perylene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Total PAH(16)	M	mg/kg	0.4	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t
Total (of 17) PAHs	N	mg/kg	2	n/t	n/t	n/t	n/t	n/t	n/t	n/t	n/t



Results Summary

2683

Report No.: 22-44812, issue number 1

ELAB Reference	302319	302321	302323	302325	302327	302329	302331	302333
Customer Reference								
Sample ID								
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	A8.1	B8.1	C8.1	D8.1	E8.1	F8.1	G8.1	H8.1
Sample Depth (m)								
Sampling Date	17/11/2022	17/11/2022	17/11/2022	17/11/2022	17/11/2022	17/11/2022	17/11/2022	17/11/2022
Determinand	Codes	Units	LOD					
BTEX								
Benzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Toluene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Toluene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Ethylbenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Ethylbenzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Xylenes	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Xylenes	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
MTBE	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
MTBE	U	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Total BTEX	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t
TPH CWG								
>C5-C6 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C6-C8 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aliphatic (HS_1D_MS+EH_2D_AL)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C10-C12 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C12-C16 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C16-C21 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C21-C35 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	2.6	2.2	2.9
>C35-C40 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total aliphatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AL)	N	mg/kg	1	< 1.0	< 1.0	3.5	2.8	3.8
>C5-C7 Aromatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C7-C8 Aromatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aromatic (HS_1D_MS+EH_2D_AR)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C10-C12 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C12-C16 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C16-C21 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C21-C35 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	5.3	21.4	41.2
>C35-C40 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	1.4	7.2	13.5
Total aromatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AR)	N	mg/kg	1	< 1.0	< 1.0	8.0	30.8	57.2
Total petroleum hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_Total)	N	mg/kg	1	< 1.0	< 1.0	11.5	33.6	61.0
Total Petroleum Hydrocarbons								
Mineral Oil w Florisil (EH_CU_1D_Total)	N	mg/kg	5	n/t	n/t	n/t	n/t	n/t
PCB (ICES 7 congeners)								
Total PCBs (7 congeners)	M	mg/kg	0.03	n/t	n/t	n/t	n/t	n/t

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Results Summary

2683

Report No.: 22-44812, issue number 1

ELAB Reference	302335	302337	302339	302341	302343	302345	302347
Customer Reference							
Sample ID							
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	I8.1	J8.1	K8.1	L8.1	LN12.1	LN35.1	LN68.1
Sample Depth (m)							
Sampling Date	17/11/2022	17/11/2022	17/11/2022	17/11/2022	17/11/2022	17/11/2022	17/11/2022

Determinand	Codes	Units	LOD							
Soil sample preparation parameters										
Moisture Content	N	%	0.1	15.4	12.3	13.3	13.3	15.7	15.7	14.6
Material removed	N	%	0.1	9.3	11.2	6.6	9.8	13.7	7.4	6.1
Description of Inert material removed	N		0	Stones	Stones/Brick/Clinker	Stones/Brick/Clinker	Stones/Brick/Clinker	Stones	Stones	Stones
Metals										
Arsenic	M	mg/kg	0.5	26.5	24.5	22.8	23.6	29.1	23.5	23.4
Cadmium	M	mg/kg	0.2	0.5	0.6	0.5	0.6	0.7	0.6	0.6
Chromium	M	mg/kg	1	40.2	37.7	34.4	35.4	46.0	40.0	36.2
Copper	M	mg/kg	4	60.6	71.5	57.9	61.7	81.2	64.5	63.8
Lead	M	mg/kg	1	149	139	128	143	208	143	138
Mercury	M	mg/kg	0.1	0.4	0.6	0.4	0.5	0.5	0.4	0.5
Nickel	M	mg/kg	1	32.3	31.1	29.0	30.4	37.8	31.2	31.5
Selenium	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium	M	mg/kg	0.5	57.1	55.2	51.0	50.5	63.9	54.1	51.6
Zinc	M	mg/kg	4.5	189	203	175	212	292	220	245
Inorganics										
Total Cyanide	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Miscellaneous										
Acid Neutralisation Capacity	N	mol/kg	0.1	n/t	n/t	n/t	< 0.1	n/t	< 0.1	n/t
Loss on Ignition	M	%	0.01	n/t	n/t	n/t	5.26	n/t	5.25	n/t
pH	M	pH units	0.1	8.0	7.9	8.0	8.0	7.9	8.0	8.0
Total Organic Carbon	N	%	0.01	n/t	n/t	n/t	1.5	n/t	1.6	n/t

Results Summary

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Report No.: 22-44812, issue number 1

ELAB Reference	302335	302337	302339	302341	302343	302345	302347
Customer Reference							
Sample ID							
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	I8.1	J8.1	K8.1	L8.1	LN12.1	LN35.1	LN68.1
Sample Depth (m)							
Sampling Date	17/11/2022	17/11/2022	17/11/2022	17/11/2022	17/11/2022	17/11/2022	17/11/2022

Determinand	Codes	Units	LOD							
Phenols										
Phenol	M	mg/kg	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
M,P-Cresol	N	mg/kg	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
O-Cresol	N	mg/kg	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
3,4-Dimethylphenol	N	mg/kg	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,3-Dimethylphenol	M	mg/kg	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,3,5-trimethylphenol	M	mg/kg	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Total Monohydric Phenols	N	mg/kg	5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Polyaromatic hydrocarbons										
Naphthalene	M	mg/kg	0.1	n/t	n/t	n/t	< 0.1	n/t	< 0.1	n/t
Acenaphthylene	M	mg/kg	0.1	n/t	n/t	n/t	0.1	n/t	< 0.1	n/t
Acenaphthene	M	mg/kg	0.1	n/t	n/t	n/t	0.1	n/t	< 0.1	n/t
Fluorene	M	mg/kg	0.1	n/t	n/t	n/t	0.1	n/t	< 0.1	n/t
Phenanthrene	M	mg/kg	0.1	n/t	n/t	n/t	1.5	n/t	< 0.1	n/t
Anthracene	M	mg/kg	0.1	n/t	n/t	n/t	0.4	n/t	< 0.1	n/t
Fluoranthene	M	mg/kg	0.1	n/t	n/t	n/t	3.5	n/t	0.3	n/t
Pyrene	M	mg/kg	0.1	n/t	n/t	n/t	2.9	n/t	0.3	n/t
Benzo(a)anthracene	M	mg/kg	0.1	n/t	n/t	n/t	1.6	n/t	0.2	n/t
Chrysene	M	mg/kg	0.1	n/t	n/t	n/t	2.1	n/t	0.2	n/t
Benzo(b)fluoranthene	M	mg/kg	0.1	n/t	n/t	n/t	3.4	n/t	0.3	n/t
Benzo(k)fluoranthene	M	mg/kg	0.1	n/t	n/t	n/t	3.7	n/t	0.3	n/t
Benzo(a)pyrene	M	mg/kg	0.1	n/t	n/t	n/t	3.9	n/t	0.2	n/t
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	n/t	n/t	n/t	3.2	n/t	0.2	n/t
Dibenzo(a,h)anthracene	M	mg/kg	0.1	n/t	n/t	n/t	0.6	n/t	< 0.1	n/t
Benzo[g,h,i]perylene	M	mg/kg	0.1	n/t	n/t	n/t	3.0	n/t	0.2	n/t
Total PAH(16)	M	mg/kg	0.4	n/t	n/t	n/t	30.5	n/t	2.5	n/t
Total (of 17) PAHs	N	mg/kg	2	n/t	n/t	n/t	31	n/t	2	n/t

Results Summary

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Report No.: 22-44812, issue number 1

ELAB Reference	302335	302337	302339	302341	302343	302345	302347
Customer Reference							
Sample ID							
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	I8.1	J8.1	K8.1	L8.1	LN12.1	LN35.1	LN68.1
Sample Depth (m)							
Sampling Date	17/11/2022	17/11/2022	17/11/2022	17/11/2022	17/11/2022	17/11/2022	17/11/2022

Determinand	Codes	Units	LOD							
BTEX										
Benzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Toluene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Toluene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Ethylbenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Ethylbenzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Xylenes	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Xylenes	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
MTBE	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
MTBE	U	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Total BTEX	N	mg/kg	0.01	n/t	n/t	n/t	< 0.01	n/t	< 0.01	n/t
TPH CWG										
>C5-C6 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C6-C8 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aliphatic (HS_1D_MS+EH_2D_AL)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C10-C12 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C12-C16 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C16-C21 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C21-C35 Aliphatic (EH_2D_AL)	M	mg/kg	1	3.2	4.3	2.4	2.2	1.1	3.3	< 1.0
>C35-C40 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total aliphatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AL)	N	mg/kg	1	4.8	5.7	3.2	3.4	1.4	4.8	< 1.0
>C5-C7 Aromatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C7-C8 Aromatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aromatic (HS_1D_MS+EH_2D_AR)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C10-C12 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C12-C16 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C16-C21 Aromatic (EH_2D_AR)	M	mg/kg	1	1.6	2.3	1.2	2.8	< 1.0	3.9	1.1
>C21-C35 Aromatic (EH_2D_AR)	M	mg/kg	1	10.7	16.3	9.0	18.3	5.2	24.1	7.6
>C35-C40 Aromatic (EH_2D_AR)	M	mg/kg	1	1.2	2.4	< 1.0	2.4	< 1.0	5.0	1.3
Total aromatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AR)	N	mg/kg	1	14.7	22.1	11.9	24.5	6.6	34.2	10.6
Total petroleum hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_Total)	N	mg/kg	1	19.5	27.8	15.1	28.0	8.0	39.1	11.6
Total Petroleum Hydrocarbons										
Mineral Oil w Florisil (EH_CU_1D_Total)	N	mg/kg	5	n/t	n/t	n/t	< 5	n/t	< 5	n/t
PCB (ICES 7 congeners)										
Total PCBs (7 congeners)	M	mg/kg	0.03	n/t	n/t	n/t	< 0.03	n/t	< 0.03	n/t

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Results Summary

Report No.: 22-44812, issue number 1

ELAB Reference				302319	302321	302323	302325	302327	302329	302331
Customer Reference										
Sample ID										
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				A8.1	B8.1	C8.1	D8.1	E8.1	F8.1	G8.1
Sample Depth (m)										
Sampling Date				17/11/2022	17/11/2022	17/11/2022	17/11/2022	17/11/2022	17/11/2022	17/11/2022
Determinand	Codes	Units	LOD							
Organics										
Coal tar	N	%	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
SVOC										
Phenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bis(2-chloroethyl)ether	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Chlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,3-Dichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,4-Dichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzyl Alcohol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-Dichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Methylphenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bis(2-chloroisopropyl)ether	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
3 and 4-methylphenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	0.02	< 0.01	< 0.01	< 0.01
N-Nitrosodi-n-propylamine	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachloroethane	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Nitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Isophorone	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Nitrophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-Dimethylphenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bis(2-chloroethoxy)methane	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-Dichlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,3,5-Trichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Naphthalene	N	mg/kg	0.01	0.02	0.05	0.02	0.02	0.04	0.04	0.03
3-Chloroaniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachloro-1,3-butadiene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
4-Chloro-3-methylphenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Methylnaphthalene	N	mg/kg	0.01	< 0.01	0.02	0.01	< 0.01	0.03	0.02	0.01
1-Methylnaphthalene	N	mg/kg	0.01	< 0.01	0.02	< 0.01	< 0.01	0.02	0.01	0.01
Hexachlorocyclopentadiene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4,6-Trichlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4,5-Trichlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1-Chloronaphthalene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Nitroaniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,4-Dinitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dimethyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1-3-dinitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-6-dinitrotoluene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthylene	N	mg/kg	0.01	0.03	0.23	0.05	0.03	0.05	0.08	0.04
1,2-Dinitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
3-Nitroaniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	N	mg/kg	0.01	< 0.01	0.04	< 0.01	< 0.01	0.04	0.01	0.03
4-nitrophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenzofuran	N	mg/kg	0.01	< 0.01	0.03	< 0.01	< 0.01	0.03	0.02	0.02
2,3,5,6-Tetrachlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,3,4,6-Tetrachlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Diethyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1-chloro-4-phenoxybenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	N	mg/kg	0.01	< 0.01	0.03	< 0.01	< 0.01	0.03	0.02	0.05
4-Nitroaniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dinitro-o-cresol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Diphenylamine	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Azobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1-bromo-4-phenoxybenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Pentachlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	N	mg/kg	0.01	0.11	1.04	0.18	0.08	0.53	0.28	0.40

Tests marked N are not UKAS accredited.

The Environmental Laboratory Ltd. Reg. No. 3882193

Results Summary

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Report No.: 22-44812, issue number 1

ELAB Reference				302319	302321	302323	302325	302327	302329	302331
Customer Reference										
Sample ID										
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				A8.1	B8.1	C8.1	D8.1	E8.1	F8.1	G8.1
Sample Depth (m)										
Sampling Date				17/11/2022	17/11/2022	17/11/2022	17/11/2022	17/11/2022	17/11/2022	17/11/2022
Determinand	Codes	Units	LOD							
Organics										
Anthracene	N	mg/kg	0.01	0.05	0.40	0.05	0.02	0.14	0.08	0.13
Carbazole	N	mg/kg	0.01	0.01	0.05	0.01	0.01	0.05	0.02	0.04
Dibutyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	N	mg/kg	0.01	0.35	4.34	0.71	0.28	1.35	0.96	0.83
Pyrene	N	mg/kg	0.01	0.34	4.13	0.67	0.27	1.28	0.93	0.77
Butyl benzyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bis-2-ethylhexyladipate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Diisooctyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)anthracene	N	mg/kg	0.01	0.18	2.59	0.39	0.16	0.69	0.53	0.43
Chrysene	N	mg/kg	0.01	0.22	2.80	0.43	0.19	0.71	0.56	0.42
Bis(2-ethylhexyl)phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	N	mg/kg	0.01	0.21	3.95	0.51	0.31	1.15	0.74	0.51
Benzo(k)fluoranthene	N	mg/kg	0.01	0.18	2.74	0.42	0.22	0.72	0.56	0.38
Benzo(a)pyrene	N	mg/kg	0.01	0.18	3.36	0.50	0.20	1.20	0.59	0.41
Indeno(1,2,3-cd)pyrene	N	mg/kg	0.01	0.11	2.12	0.31	0.16	0.92	0.45	0.28
Dibenzo(a,h)anthracene	N	mg/kg	0.01	0.05	0.68	0.11	0.06	0.29	0.16	0.11
Benzo(g,h,i)perylene	N	mg/kg	0.01	0.15	2.36	0.36	0.20	1.15	0.52	0.34

Results Summary

Report No.: 22-44812, issue number 1

ELAB Reference				302333	302335	302337	302339	302341	302343	302345
Customer Reference										
Sample ID										
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				H8.1	I8.1	J8.1	K8.1	L8.1	LN12.1	LN35.1
Sample Depth (m)										
Sampling Date				17/11/2022	17/11/2022	17/11/2022	17/11/2022	17/11/2022	17/11/2022	17/11/2022
Determinand	Codes	Units	LOD							
Organics										
Coal tar	N	%	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
SVOC										
Phenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bis(2-chloroethyl)ether	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Chlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,3-Dichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,4-Dichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzyl Alcohol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-Dichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Methylphenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bis(2-chloroisopropyl)ether	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
3 and 4-methylphenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
N-Nitrosodi-n-propylamine	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachloroethane	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Nitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Isophorone	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Nitrophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-Dimethylphenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bis(2-chloroethoxy)methane	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-Dichlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,3,5-Trichlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Naphthalene	N	mg/kg	0.01	0.04	0.02	0.03	0.02	0.06	0.03	0.02
3-Chloroaniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachloro-1,3-butadiene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
4-Chloro-3-methylphenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Methylnaphthalene	N	mg/kg	0.01	0.01	0.01	0.01	< 0.01	0.03	0.01	< 0.01
1-Methylnaphthalene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.02	< 0.01	< 0.01
Hexachlorocyclopentadiene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4,6-Trichlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4,5-Trichlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1-Chloronaphthalene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-Nitroaniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,4-Dinitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dimethyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1-3-dinitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-6-dinitrotoluene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthylene	N	mg/kg	0.01	0.06	0.03	0.06	0.04	0.08	0.03	0.05
1,2-Dinitrobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
3-Nitroaniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	N	mg/kg	0.01	0.01	< 0.01	< 0.01	< 0.01	0.03	< 0.01	0.01
4-nitrophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenzofuran	N	mg/kg	0.01	0.01	< 0.01	0.01	< 0.01	0.03	< 0.01	< 0.01
2,3,5,6-Tetrachlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,3,4,6-Tetrachlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Diethyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1-chloro-4-phenoxybenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.03	< 0.01	0.01
4-Nitroaniline	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dinitro-o-cresol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Diphenylamine	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Azobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1-bromo-4-phenoxybenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachlorobenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Pentachlorophenol	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	N	mg/kg	0.01	0.12	0.07	0.16	0.09	0.40	0.10	0.20

Tests marked N are not UKAS accredited.

The Environmental Laboratory Ltd. Reg. No. 3882193

Results Summary

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Report No.: 22-44812, issue number 1

ELAB Reference				302333	302335	302337	302339	302341	302343	302345
Customer Reference										
Sample ID										
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				H8.1	I8.1	J8.1	K8.1	L8.1	LN12.1	LN35.1
Sample Depth (m)										
Sampling Date				17/11/2022	17/11/2022	17/11/2022	17/11/2022	17/11/2022	17/11/2022	17/11/2022
Determinand	Codes	Units	LOD							
Organics										
Anthracene	N	mg/kg	0.01	0.05	0.03	0.05	0.03	0.13	0.03	0.06
Carbazole	N	mg/kg	0.01	0.01	< 0.01	0.01	< 0.01	0.03	< 0.01	0.01
Dibutyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	N	mg/kg	0.01	0.65	0.27	0.60	0.27	1.32	0.47	0.81
Pyrene	N	mg/kg	0.01	0.63	0.27	0.59	0.26	1.26	0.47	0.74
Butyl benzyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bis-2-ethylhexyladipate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Diisooctyl phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)anthracene	N	mg/kg	0.01	0.41	0.19	0.31	0.15	0.76	0.26	0.37
Chrysene	N	mg/kg	0.01	0.37	0.17	0.34	0.16	0.77	0.27	0.40
Bis(2-ethylhexyl)phthalate	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	N	mg/kg	0.01	0.60	0.26	0.50	0.20	1.12	0.36	0.60
Benzo(k)fluoranthene	N	mg/kg	0.01	0.47	0.19	0.40	0.18	0.73	0.27	0.37
Benzo(a)pyrene	N	mg/kg	0.01	0.46	0.20	0.49	0.21	0.90	0.30	0.38
Indeno(1,2,3-cd)pyrene	N	mg/kg	0.01	0.30	0.13	0.35	0.12	0.67	0.23	0.22
Dibenzo(a,h)anthracene	N	mg/kg	0.01	0.12	0.06	0.12	0.05	0.25	0.09	0.10
Benzo(g,h,i)perylene	N	mg/kg	0.01	0.40	0.17	0.43	0.16	0.79	0.27	0.29

Results Summary

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Report No.: 22-44812, issue number 1

ELAB Reference	302347
Customer Reference	
Sample ID	
Sample Type	SOIL
Sample Location	LN68.1
Sample Depth (m)	
Sampling Date	17/11/2022

Determinand	Codes	Units	LOD	
Organics				
Coal tar	N	%	0.01	< 0.01
SVOC				
Phenol	N	mg/kg	0.01	< 0.01
Aniline	N	mg/kg	0.01	< 0.01
Bis(2-chloroethyl)ether	N	mg/kg	0.01	< 0.01
2-Chlorophenol	N	mg/kg	0.01	< 0.01
1,3-Dichlorobenzene	N	mg/kg	0.01	< 0.01
1,4-Dichlorobenzene	N	mg/kg	0.01	< 0.01
Benzyl Alcohol	N	mg/kg	0.01	< 0.01
1,2-Dichlorobenzene	N	mg/kg	0.01	< 0.01
2-Methylphenol	N	mg/kg	0.01	< 0.01
Bis(2-chloroisopropyl)ether	N	mg/kg	0.01	< 0.01
3 and 4-methylphenol	N	mg/kg	0.01	< 0.01
N-Nitrosodi-n-propylamine	N	mg/kg	0.01	< 0.01
Hexachloroethane	N	mg/kg	0.01	< 0.01
Nitrobenzene	N	mg/kg	0.01	< 0.01
Isophorone	N	mg/kg	0.01	< 0.01
2-Nitrophenol	N	mg/kg	0.01	< 0.01
2,4-Dimethylphenol	N	mg/kg	0.01	< 0.01
Bis(2-chloroethoxy)methane	N	mg/kg	0.01	< 0.01
2,4-Dichlorophenol	N	mg/kg	0.01	< 0.01
1,3,5-Trichlorobenzene	N	mg/kg	0.01	< 0.01
Naphthalene	N	mg/kg	0.01	0.02
3-Chloroaniline	N	mg/kg	0.01	< 0.01
Hexachloro-1,3-butadiene	N	mg/kg	0.01	< 0.01
4-Chloro-3-methylphenol	N	mg/kg	0.01	< 0.01
2-Methylnaphthalene	N	mg/kg	0.01	0.01
1-Methylnaphthalene	N	mg/kg	0.01	< 0.01
Hexachlorocyclopentadiene	N	mg/kg	0.01	< 0.01
2,4,6-Trichlorophenol	N	mg/kg	0.01	< 0.01
2,4,5-Trichlorophenol	N	mg/kg	0.01	< 0.01
1-Chloronaphthalene	N	mg/kg	0.01	< 0.01
2-Nitroaniline	N	mg/kg	0.01	< 0.01
1,4-Dinitrobenzene	N	mg/kg	0.01	< 0.01
Dimethyl phthalate	N	mg/kg	0.01	< 0.01
1-3-dinitrobenzene	N	mg/kg	0.01	< 0.01
2-6-dinitrotoluene	N	mg/kg	0.01	< 0.01
Acenaphthylene	N	mg/kg	0.01	0.06
1,2-Dinitrobenzene	N	mg/kg	0.01	< 0.01
3-Nitroaniline	N	mg/kg	0.01	< 0.01
Acenaphthene	N	mg/kg	0.01	0.01
4-nitrophenol	N	mg/kg	0.01	< 0.01
Dibenzofuran	N	mg/kg	0.01	< 0.01
2,3,5,6-Tetrachlorophenol	N	mg/kg	0.01	< 0.01
2,3,4,6-Tetrachlorophenol	N	mg/kg	0.01	< 0.01
Diethyl phthalate	N	mg/kg	0.01	< 0.01
1-chloro-4-phenoxybenzene	N	mg/kg	0.01	< 0.01
Fluorene	N	mg/kg	0.01	< 0.01
4-Nitroaniline	N	mg/kg	0.01	< 0.01
Dinitro-o-cresol	N	mg/kg	0.01	< 0.01
Diphenylamine	N	mg/kg	0.01	< 0.01
Azobenzene	N	mg/kg	0.01	< 0.01
1-bromo-4-phenoxybenzene	N	mg/kg	0.01	< 0.01
Hexachlorobenzene	N	mg/kg	0.01	< 0.01
Pentachlorophenol	N	mg/kg	0.01	< 0.01
Phenanthrene	N	mg/kg	0.01	0.23

Results Summary

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Report No.: 22-44812, issue number 1

ELAB Reference	302347
Customer Reference	
Sample ID	
Sample Type	SOIL
Sample Location	LN68.1
Sample Depth (m)	
Sampling Date	17/11/2022

Determinand	Codes	Units	LOD	
Organics				
Anthracene	N	mg/kg	0.01	0.07
Carbazole	N	mg/kg	0.01	0.02
Dibutyl phthalate	N	mg/kg	0.01	< 0.01
Fluoranthene	N	mg/kg	0.01	0.89
Pyrene	N	mg/kg	0.01	0.81
Butyl benzyl phthalate	N	mg/kg	0.01	< 0.01
Bis-2-ethylhexyladipate	N	mg/kg	0.01	< 0.01
Diisooctyl phthalate	N	mg/kg	0.01	< 0.01
Benzo(a)anthracene	N	mg/kg	0.01	0.44
Chrysene	N	mg/kg	0.01	0.44
Bis(2-ethylhexyl)phthalate	N	mg/kg	0.01	< 0.01
Benzo(b)fluoranthene	N	mg/kg	0.01	0.58
Benzo(k)fluoranthene	N	mg/kg	0.01	0.39
Benzo(a)pyrene	N	mg/kg	0.01	0.45
Indeno(1,2,3-cd)pyrene	N	mg/kg	0.01	0.32
Dibenzo(a,h)anthracene	N	mg/kg	0.01	0.13
Benzo(g,h,i)perylene	N	mg/kg	0.01	0.39

Results Summary

Report No.: 22-44812, issue number 1

WAC Analysis

Elab Ref:	302345					Landfill Waste Acceptance Criteria Limits*		
Sample Date:	17/11/2022					Inert Waste Landfill	Stable Non-reactive Hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:	LN35.1							
Depth (m)								
Site:	River Academy							
Determinand		Code	Units					
Total Organic Carbon		N	%		1.60	3	5	6
Loss on Ignition		M	%		5.3	--	--	10
Total BTEX		M	mg/kg		< 0.01	6	--	--
Total PCBs (7 congeners)		M	mg/kg		< 0.03	1	--	--
TPH Total WAC (EH_CU_1D_Total)		N	mg/kg		< 5	500	--	--
Total (of 17) PAHs		N	mg/kg		2.0	100	--	--
pH		M			8.0	--	>6	--
Acid Neutralisation Capacity		N	mol/kg		< 0.1	--	To evaluate	To evaluate

Eluate Analysis

			10:1	10:1	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg		
			mg/l	mg/kg			
Arsenic		N	< 0.005	< 0.05	0.5	2	25
Barium		N	0.009	0.09	20	100	300
Cadmium		N	< 0.001	< 0.01	0.04	1	5
Chromium		N	< 0.005	< 0.05	0.5	10	70
Copper		N	< 0.005	< 0.05	2	50	100
Mercury		N	< 0.005	< 0.01	0.01	0.2	2
Molybdenum		N	< 0.005	< 0.05	0.5	10	30
Nickel		N	< 0.001	< 0.05	0.4	10	40
Lead		N	< 0.001	< 0.05	0.5	10	50
Antimony		N	< 0.005	< 0.05	0.06	0.7	5
Selenium		N	< 0.005	< 0.05	0.1	0.5	7
Zinc		N	0.009	0.09	4	50	200
Chloride		N	< 5	< 50	800	15000	25000
Fluoride		N	< 5	< 10	10	150	500
Sulphate		N	3	26.10	1000	20000	50000
Total Dissolved Solids		N	73	726.00	4000	60000	100000
Phenol Index		N	< 0.01	< 0.10	1	-	-
Dissolved Organic Carbon		N	11.500	115.00	500	800	1000

Leach Test Information

pH		N	7.3				
Conductivity (uS/cm)		N	108				
Dry mass of test portion (g)			100.000				
Dry Matter (%)			84				
Moisture (%)			19				
Eluent Volume (ml)			963				

Results are expressed on a dry weight basis, after correction for moisture content where applicable

* Stated limits are for guidance only, and not for conformity assessment.

Results Summary

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WAC Analysis

Elab Ref:	302341					Landfill Waste Acceptance Criteria Limits*		
Sample Date:	17/11/2022					Inert Waste Landfill	Stable Non-reactive Hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:	L8.1							
Depth (m)								
Site:	River Academy							
Determinand		Code	Units					
Total Organic Carbon		N	%		1.50	3	5	6
Loss on Ignition		M	%		5.3	--	--	10
Total BTEX		M	mg/kg		< 0.01	6	--	--
Total PCBs (7 congeners)		M	mg/kg		< 0.03	1	--	--
TPH Total WAC (EH_CU_1D_Total)		N	mg/kg		< 5	500	--	--
Total (of 17) PAHs		N	mg/kg		31.0	100	--	--
pH		M			8.0	--	>6	--
Acid Neutralisation Capacity		N	mol/kg		< 0.1	--	To evaluate	To evaluate

Eluate Analysis

			10:1	10:1	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg		
			mg/l	mg/kg			
Arsenic		N	< 0.005	< 0.05	0.5	2	25
Barium		N	0.009	0.09	20	100	300
Cadmium		N	< 0.001	< 0.01	0.04	1	5
Chromium		N	< 0.005	< 0.05	0.5	10	70
Copper		N	< 0.005	< 0.05	2	50	100
Mercury		N	< 0.005	< 0.01	0.01	0.2	2
Molybdenum		N	< 0.005	< 0.05	0.5	10	30
Nickel		N	< 0.001	< 0.05	0.4	10	40
Lead		N	< 0.001	< 0.05	0.5	10	50
Antimony		N	< 0.005	< 0.05	0.06	0.7	5
Selenium		N	< 0.005	< 0.05	0.1	0.5	7
Zinc		N	0.007	0.07	4	50	200
Chloride		N	< 5	< 50	800	15000	25000
Fluoride		N	< 5	< 10	10	150	500
Sulphate		N	5	48.90	1000	20000	50000
Total Dissolved Solids		N	81	807.00	4000	60000	100000
Phenol Index		N	< 0.01	< 0.10	1	-	-
Dissolved Organic Carbon		N	10.600	106.00	500	800	1000

Leach Test Information

pH		N	6.9				
Conductivity (uS/cm)		N	120				
Dry mass of test portion (g)			102.000				
Dry Matter (%)			85				
Moisture (%)			18				
Eluent Volume (ml)			979				

Results are expressed on a dry weight basis, after correction for moisture content where applicable

* Stated limits are for guidance only, and not for conformity assessment.

Results Summary

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Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #) in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos Identification	Gravimetric Analysis Total	Gravimetric Analysis by ACM Type (%)	Free Fibre Analysis	Total Asbestos (%)
302319		A8.1	Brown Sandy soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
302320		A8.1.2	Brown Sandy soil,Stones,Brick	No asbestos detected	n/t	n/t	n/t	n/t
302321		B8.1	Brown Sandy soil,Stones,Brick,Concrete	No asbestos detected	n/t	n/t	n/t	n/t
302322		B8.1.2	Brown Sandy soil,Stones,Glass,Brick	No asbestos detected	n/t	n/t	n/t	n/t
302323		C8.1	Brown Sandy soil,Stones,Glass	No asbestos detected	n/t	n/t	n/t	n/t
302324		C8.1.2	Brown Sandy soil,Stones,Brick	No asbestos detected	n/t	n/t	n/t	n/t
302325		D8.1	Brown Sandy soil,Stones,Brick	No asbestos detected	n/t	n/t	n/t	n/t
302326		D8.1.2	Brown Sandy soil,Stones,Glass,Clinker,Brick	No asbestos detected	n/t	n/t	n/t	n/t
302327		E8.1	Brown Sandy soil,Stones,Brick	No asbestos detected	n/t	n/t	n/t	n/t
302328		E8.1.2	Brown Sandy soil,Stones,Brick,Concrete	No asbestos detected	n/t	n/t	n/t	n/t
302329		F8.1	Brown Sandy Soil,Stones,Brick	No asbestos detected	n/t	n/t	n/t	n/t
302330		F8.1.2	Brown Sandy soil,Stones,Brick	No asbestos detected	n/t	n/t	n/t	n/t
302331		G8.1	Brown Sandy soil,Stones,Brick	No asbestos detected	n/t	n/t	n/t	n/t
302332		G8.1.2	Brown Sandy soil,Stones,Polythene,Organic	No asbestos detected	n/t	n/t	n/t	n/t
302333		H8.1	Brown Sandy soil,Stones,Brick,Organic	No asbestos detected	n/t	n/t	n/t	n/t
302334		H8.1.2	Brown Sandy soil,Stones,Brick,,Clinker	No asbestos detected	n/t	n/t	n/t	n/t
302335		I8.1	Brown Sandy soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
302336		I8.1.2	Brown Sandy soil,Stones,organic,Brick	No asbestos detected	n/t	n/t	n/t	n/t
302337		J8.1	Brown Sandy soil,Stones,Brick	No asbestos detected	n/t	n/t	n/t	n/t
302338		J8.1.2	Brown Sandy soil,Stones,Brick	No asbestos detected	n/t	n/t	n/t	n/t
302339		K8.1	Brown Sandy soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
302340		K8.1.2	Brown Sandy soil,Stones,Brick	No asbestos detected	n/t	n/t	n/t	n/t
302341		L8.1	Brown Sandy soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
302342		L8.1.2	Brown Sandy soil,Stones,Glass	No asbestos detected	n/t	n/t	n/t	n/t
302343		LN12.1	Brown Sandy soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
302344		JN12.1.2	Brown Sandy soil,Stones,Glass	No asbestos detected	n/t	n/t	n/t	n/t
302345		LN35.1	Brown Sandy soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
302346		LN35.1.2	Brown Sandy soil,Stones,Metal,Ceramic,Organic	No asbestos detected	n/t	n/t	n/t	n/t
302347		LN68.1	Brown Sandy soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
302348		LN68.1.2	Brown Sandy soil,Stones,Brick,Glass,Oraganic	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

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Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
SVOC in solids	N	As submitted sample	24/11/2022		GC-MS
Phenols in solids	M	As submitted sample	22/11/2022	121	HPLC
SVOC in solids	N	As submitted sample	24/11/2022	167	GC-MS
Low range Aliphatic hydrocarbons soil	N	As submitted sample	23/11/2022	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	23/11/2022	181	GC-MS
Total cyanide	M	As submitted sample	24/11/2022	204	Colorimetry
TPH CWG soil by gc-gc	M	As submitted sample	21/11/2022	271	
Asbestos identification	U	Air dried sample	25/11/2022	280	Microscopy
Aqua regia extractable metals	M	Air dried sample	23/11/2022	300	ICPMS
Leachate					
Arsenic	N		24/11/2022	301	ICPMS
Cadmium	N		24/11/2022	301	ICPMS
Chromium	N		24/11/2022	301	ICPMS
Lead	N		24/11/2022	301	ICPMS
Nickel	N		24/11/2022	301	ICPMS
Copper	N		24/11/2022	301	ICPMS
Zinc	N		24/11/2022	301	ICPMS
Mercury	N		24/11/2022	301	ICPMS
Selenium	N		24/11/2022	301	ICPMS
Antimony	N		24/11/2022	301	ICPMS
Barium	N		24/11/2022	301	ICPMS
Molybdenum	N		24/11/2022	301	ICPMS
pH Value	N		24/11/2022	113	Electrometric
Electrical Conductivity	N		24/11/2022	136	Probe
Dissolved Organic Carbon	N		24/11/2022	102	TOC analyser
Chloride	N		24/11/2022	131	Ion Chromatography
Fluoride	N		24/11/2022	131	Ion Chromatography
Sulphate	N		24/11/2022	131	Ion Chromatography
Total Dissolved Solids	N		24/11/2022	144	Gravimetric
Phenol index	N		24/11/2022	121	HPLC
WAC Solids analysis	N				
pH	M	Air dried sample	22/11/2022	113	Electrometric
Total Organic Carbon	N	Air dried sample	23/11/2022	210	IR
Loss on Ignition	M	Air dried sample	23/11/2022	129	Gravimetric
Acid Neutralisation Capacity	N	Air dried sample	22/11/2022	NEN 737	Electrometric
Total BTEX	M	As submitted sample	23/11/2022	181	GCMS
Mineral Oil (EH_CU_1D_Total)	N	As submitted sample	21/11/2022	117	GCFID
Total PCBs (7 congeners)	M	Air dried sample	22/11/2022	120	GCMS
Total (of 17) PAHs	N	As submitted sample	24/11/2022	133	GCFID

Tests marked N are not UKAS accredited

Report Information

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Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"
LOD	LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination. Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed. ELAB are unable to provide an interpretation or opinion on the content of this report. The results relate only to the sample received. PCB congener results may include any coeluting PCBs Uncertainty of measurement for the determinands tested are available upon request Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Deviation Codes

a	No date of sampling supplied
b	No time of sampling supplied (Waters Only)
c	Sample not received in appropriate containers
d	Sample not received in cooled condition
e	The container has been incorrectly filled
f	Sample age exceeds stability time (sampling to receipt)
g	Sample age exceeds stability time (sampling to analysis)

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month
 All water samples will be retained for 7 days following the date of the test report
 Charges may apply to extended sample storage

TPH Classification - HWOL Acronym System

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