TECHNICAL SUBMISSION					
Project:		**Belmont Street**			
Originator:		Total Protection Group			
Work Package:		Soft/Hard Landscaping			
Technical Submission Title:		Topsoil			
Technical Submission Number		TPG-TS-006			
Rev No 17-05-2024	P01		**Suitability Code**	S3	

Technical information:

Please see attached topsoil report for information and attention.

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Charlton - Topsoil Analysis: Trugrow Topsoil BS3882:2015

We have now completed the analysis of the soil sample recently submitted, referenced Trugrow Topsoil, and have pleasure reporting our findings.

This report presents the results of analysis for the sample collected from our Charlton Topsoil Yard and it should be considered 'indicative' of the topsoil source. The report and results should therefore not be used by third parties as a means of verification or validation testing or waste designation purposes, especially after the topsoil has left the H. Sivyer Transport Ltd site.

This appraisal of soil structure was made from examination of a disturbed sample. Structure is a key soil characteristic that may only be accurately assessed by examination in an in-situ state.

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DOCUMENT CONTROL DETAILS		
Report Title:	Charlton - Truegrow Topsoil Analysis BS3882:2015	
Report Reference:	1345544/1	
Issue:	Version 1	
Date:	13/05/2024	
Client:	H Sivyer Transport Ltd. Bardon Hill, Bardon Road, Coalville, Leicestershire, England, LE67 1TLd.	
Contact:	H Sivyer Transport Ltd	
Prepared by:	Taraknath Pandey	Taraknath Pandey
Date:	13/05/2024	
Reviewed by:	Taraknath Pandey	Taraknath Pandey
Date:	13/05/2024	

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CONTENTS

APPENDICES

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1.0 Introduction

Testex was commissioned by H Sivyer Transport Ltd. (the client) to collect a sample of Truegrow topsoil from Charlton Topsoil Yard for BS3882:2015 – analysis.

2.0 Purpose and Remit

The purpose of the analysis was to determine the suitability of the sample for general landscape purposes. In addition, this sample has been assessed to determine its compliance with the requirements of the British Standard for Topsoil (BS3882:2015 – Specification for Topsoil – Table 1, Multipurpose Topsoil).

3.0 Sample Assessment

The sample was described as a very dark greyish brown (Munsell Colour 10YR 3/2), slightly moist, friable, very calcareous LOAMY SAND with a weakly developed, very fine to fine granular structure*. The sample was virtually stone free and contained a moderate proportion of organic fines. No unusual odours, deleterious materials, roots or rhizomes of pernicious weeds were observed.

4. Analytical Schedule

The sample was submitted to a UKAS and MCERTS accredited laboratory for a range of physical and chemical
tests to confirm the composition and fertility of the soil, and the concentration of selected potential contaminants.
The following parameters were determined:

- detailed particle size analysis (% 5 sands, silt, clay);
- pH and electrical conductivity values;
- exchangeable sodium percentage;
- major plant nutrients (N, P, K, Mg);
- organic matter content;
- C:N ratio;

The results are presented on Appendix A.

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Report Limitations:

The information included in this report and the interpretation of data sampled by Testex -Part of Sivyer Group is only representative of the site detailed within this report upon the date of testing. Testex results interpretation does not place out of bounds the existence of other waste classifications, which were not reasonably apparent throughout the duration of the site investigation works undertaken as sampling data was gathered from the client's site. The conclusions of this report should be used for information purposes only and should not be a used as a definitive characterisation of all site conditions or all potential waste streams present on the site.

All test data included is subject to the final waste disposal sites classification of suitability according to their company's individual limits and permit conditions.

The report has been compiled by Testex with all possible reasonable due care, diligence and skill. Utilising the agreed costings, timeframes and work force with the client. This report cannot be utilised by other parties other than the client without the written consent of Testex – Part of Sivyer Group

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Appendices

Appendix A – Testing Results

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Appendix A – Testing Results

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

Amended Report

Report No.:	24-12680-2		
Initial Date of Issue:	13-May-2024	**Date of Re-Issue:**	13-May-2024
Re-Issue Details:	This report has been revised and directly supersedes 24-12680-1 in its entirety		
Client	H Sivyer Transport Ltd		
Client Address:	Purchasing Department 3 Herringham Road London SE7 8NJ		
Contact(s):	Results		
Project	Charlton Topsoil Yard, 40-45 Herringham Road New Charlton		
Quotation No.:	Q24-33555	**Date Received:**	23-Apr-2024
Order No.:	Tarak	**Date Instructed:**	23-Apr-2024
No. of Samples:	1		
Turnaround (Wkdays):	5	**Results Due:**	29-Apr-2024
Date Approved:	13-May-2024	**Subcon Results Due:**	15-May-2024

Approved By:

Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: Charlton Topsoil Yard, 40-45 Herringham Road New Charlton

Client: H Sivyer Transport Ltd				**Chemtest Job No.:**		24-12680
Quotation No.: Q24-33555				**Chemtest Sample ID.:**		1797951
				Sample Location:		Trugrow Topsoil - BS3882:2015
				Sample Type:		SOIL
				Date Sampled:		20-Apr-2024
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**	
Moisture		N	2030	%	0.020	21

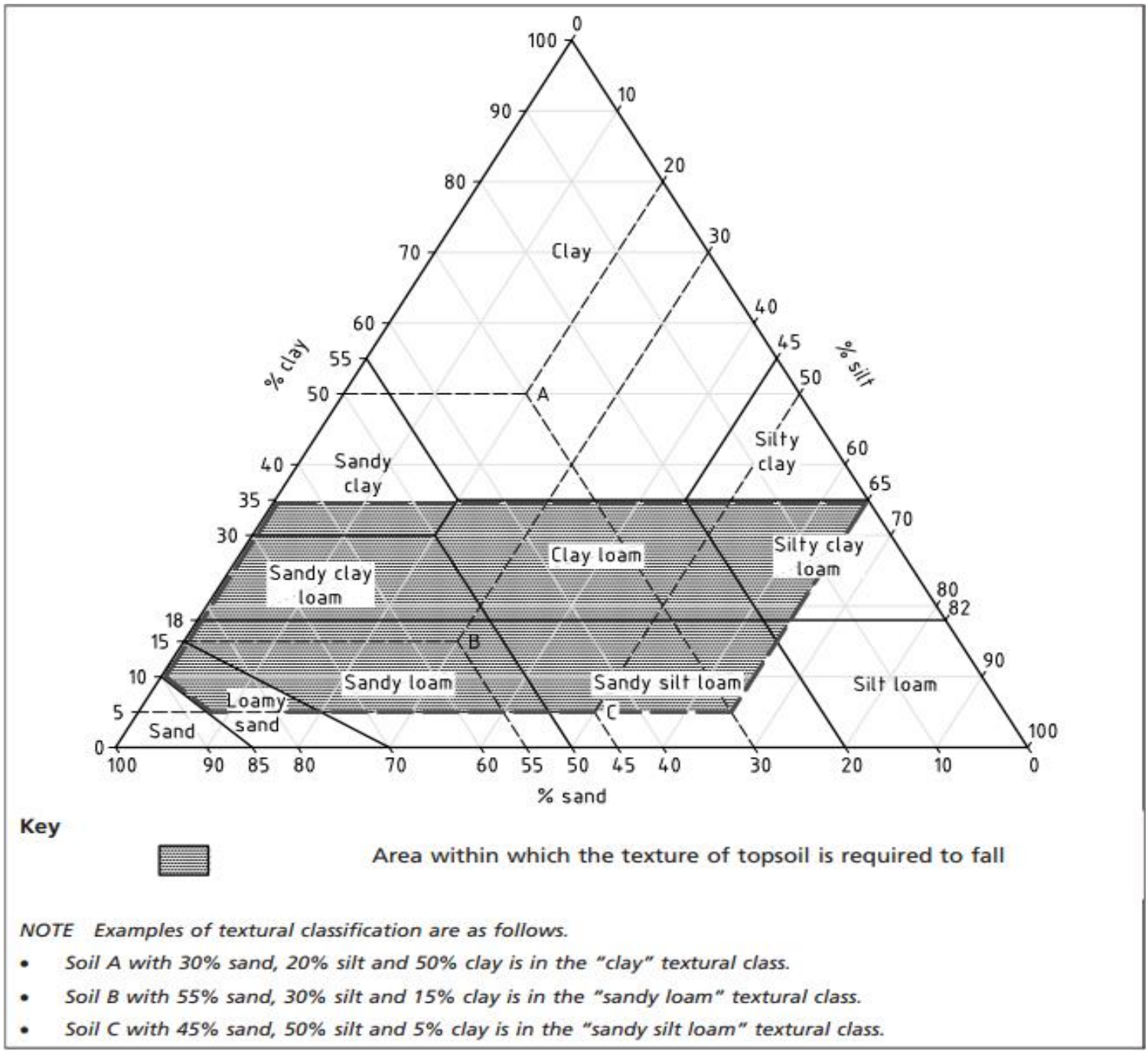
Results - Topsoil Report

BS3882:2015

Chemtest Job No.: 24-12680
Chemtest Sample ID.: 1797951
Client Sample Ref.:
Sample Location: Trugrow Topsoil - BS3882:2015
Client Sample ID.:
Top Depth (m):
Bottom Depth (m):
Date Sampled: 20-Apr-2024
Time Sampled:

Parameter	Units	Multipurpose Range			Result	Compliant with Multipurpose Range? (Y/N)	Compliant with Specific Purpose Range? (Y/N)		
Texture							**Acid**	**Low F**	**Calc.**
Clay content (Sub Contracted)	%				9.9				
Silt content (Sub Contracted)	%				13				
Sand content (Sub Contracted)	%				78				
Soil texture class		See Attached Chart			Sandy Loam	YES			
Mass Loss on Ignition									
Clay 5-20%		3.0-20			4.6	YES	YES	YES	YES
Clay 20-35%		5.0-20							
Stone Content	**% m/m**								
>2mm (Sub Contracted)		0-30			1.7	YES			
>20mm (Sub Contracted)		0-10			< 0.10	YES			
>50mm (Sub Contracted)		0			< 0.10	YES			
Soil pH value		5.5-8.5			7.9	YES	NO	YES	YES
Carbonate (Calcareous only)	%				0.60				NO
Electrical Conductivity	µS/cm	If >3300 do ESP			3100	YES			
Available Nutrient Content									
Nitrogen %		>0.15			0.23	YES	YES		YES
Extractable phosphorus	mg/l	16-140			110	YES	YES	NO	YES
Extractable potassium	mg/l	121-1500			1400	YES	YES		YES
Extractable magnesium	mg/l	51-600			240	YES	YES		YES
Carbon : Nitrogen Ratio		<20:1			11.6/1	YES	YES	YES	YES
Exchangeable sodium	**%**	<15			3.7				
Available Calcium	mg/l				370				
Available Sodium	mg/l				130				
Phytotoxic Contaminants (by soil pH)		**< 6.0**	**6.0-7.0**	**> 7.0**					
Zinc (Nitric Acid extract)	mg/kg	<200	<200	<300	70	YES			
Copper (Nitric Acid extract)	mg/kg	<100	<135	<200	8.9	YES			
Nickel (Nitric Acid extract)	mg/kg	<60	<75	<110	14	YES			
Visible Contaminants	**% mm**								
>2mm		<0.5			0.000	YES			
….. of which plastics		<0.25			0.000	YES			
….. man-made sharps		zero in 1kg			0.000	YES			

Topsoil: BS3882:2015
Texture Classification Chart



Key

Area within which the texture of topsoil is required to fall

NOTE Examples of textural classification are as follows.

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

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British Standards can be obtained in PDF or hard copy formats from the BSI online shop: www.bsigroup.com/Shop or by contacting BSI Customer Services for hardcopies only: Tel: +44 (0)20 8996 9001, Email: cservices@bsigroup.com.

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2010	pH Value of Soils	pH at 20°C	pH Meter	
2020	Electrical Conductivity	Electrical conductivity (EC) of aqueous extract or calcium sulphate solution for topsoil	Measurement of the electrical resistance of a 2:1 water/soil extract.	
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2115	Total Nitrogen in Soils	Nitrogen	Determination by elemental analyser	
2260	Carbonate	Carbonate	Titration	
2400	Cations	Cations	ICP-MS	
2420	Phosphate	Phosphate	Spectrophotometry - Discrete analyser	
2450	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.	
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.	
2620	LOI 440	LOI 440 Trommel Fines	Determination of the proportion by mass that is lost from a soil by ignition at 440°C.	

Report Information

Key

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

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.
Any comments or interpretations are outside the scope of UKAS accreditation.
The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.
Uncertainty of measurement for the determinands tested are available upon request .
None of the results in this report have been recovery corrected.
All results are expressed on a dry weight basis.

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

For all other tests the samples were dried at ≤ 30°C prior to analysis.
All Asbestos testing is performed at the indicated laboratory .
Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1.

Sample Deviation Codes

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

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.
All water samples will be retained for 14 days from the date of receipt.
Charges may apply to extended sample storage.

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable

Report Information

PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

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 - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

www.hsivyer.com
Email: orders@testex.co.uk
Phone: 020 8778 1384

At Sivyer, we are committed to protecting the environment and conserving natural resources through recycling.

Sustainability is important to us, and recycling is a key component of our sustainability efforts. By recycling as much as possible, we aim to minimize waste sent to landfills, reduce our environmental footprint, and transition towards a more circular economy. We also actively seek ways to reuse materials before recycling them, reduce waste at the source, and use more sustainable materials in our operations where feasible.

As a company, we are continuously improving our recycling streams and searching for innovative ways to be more efficient with our material usage. We aim to lead by example and set high recycling standards for our industry. Our employees are regularly educated on proper recycling practices to uphold our commitment. Together through recycling, we strive to conduct business more sustainably and preserve our planet for future generations.

Our Contact Information

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Status: **Signature:** **Notes:**	**Date:**