

WB Environmental Ltd
Frias Court
Chester
CH1 1N2

Date: 12th December 2018
Test Report Ref. STR: 627518

Page 1 of 4

LABORATORY TEST REPORT

TEST REQUIREMENTS: Declaration of soil analysis to **BS 3882: 2015**

Sample details:

Certificate of sampling received:	Yes
Laboratory Ref. No:	S75950
Client Ref. No:	Ballswood Quarry Sample
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	09/10/2018
Date of Start of Test.:	06/11/2018
Sampling Location:	Unknown
Name of Source:	Ballswood Quarry
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Soil
Target Specification:	N/A

RESULTS:

See attached.

Comments:

The work was carried out by our accredited, competent, sub contracted laboratory.

Report checked and approved by:



Sharon Parry-Didcote
Aggregate Job-Coordinator

Test Report Ref. STR: 627518 - Page 2 of 4

Results: DECLARATION OF SUBSOIL ANALYSIS TO BS 8601 : 2013

CHEMICAL ANALYSIS – Sample Ref: S75950 ref Ballswood Quarry

Parameter	Component	Units	Result	COMPLIANCE ASSESSMENT (Y/N)		
				Multi-Purpose	SPECIFIC PURPOSE GRADES	
					Acidic	Calcareous
Texture	Clay	% w/w	9.1	Y	Y	Y
	Silt	% w/w	15.2	Y	Y	Y
	Sand	% w/w	75.8	Y	Y	Y
Textural Class	Sandy Loam					
Organic Matter		% w/w	1.9	Y	Y	Y
Coarse Fragments Contents	>2 mm <20 mm	% w/w	15	Y	Y	Y
	>20 mm <50 mm	% w/w	0	Y	Y	Y
	>50 mm	% w/w	0	Y	Y	Y
Soil pH	pH units		7.8	Y	N	Y
Carbonate		% w/w	6.4	n/a	n/a	Y
Soil Conductivity		µS/cm	2530	Y	Y	Y
Exchangeable Sodium		%	0.5	Y	Y	Y
Available Calcium		mg/l	5270	fio	fio	fio
Available Sodium		mg/l	26	fio	fio	fio
Phytotoxic Contamination	Zinc	mg/kg	176	Y	Y	Y
	Copper	mg/kg	49	Y	Y	Y
	Nickel	mg/kg	27	Y	Y	Y
Visible Contaminants	>2mm	% w/w	<0.5	Y	Y	Y
	Plastics	% w/w	<0.25	Y	Y	Y
	Sharps	% w/w	0.0	Y	Y	Y
ALL INCLUSIVE COMPLIANCY				Y	N	Y
n/a - not applicable; fio - for information only						

Comment:

The analysed characteristics of the subsoil referenced:

S75950 ref Ballswood Quarry

therefore complies with the BS 8601 subsoil characteristics for the Multi-Purpose Grade and Specific Purpose Calcareous Grade.

The subsoil fails to comply with the BS 8601 subsoil characteristics for the Specific Purpose Acidic Grade due to the following reason:

Elevated pH (Specific Purpose Acidic Grade).

Caveats:

The British Standard BS 8601 : 2013 specifies requirements for subsoils that are moved or traded. The standard is not intended (or appropriate) for the grading, classification or standardization of subsoil that remains in situ. The grades of subsoil considered are **Multipurpose**, which is fit for the majority of needs, and also **Specific Purpose** subsoils, that are acidic or calcareous for the particular specialist needs where such subsoils are required.

Summary: The results of soil analysis to determine contamination status and suitability for use as a growing medium in accordance with BS 8601 : 2013 demonstrate that:

<u>Sample Reference</u>	<u>BS 8601 compliance</u>	<u>Contamination Status</u>
S75950 ref Ballswood Quarry	Complies with Multi-Purpose grade and Specific Purpose Calcareous grade	Not known

Recommendations: Use as BS 8601 certified compliant Multi-Purpose or Calcareous subsoil.

END OF REPORT