



Client:	British Sugar plc Co-Products
Client Ref:	LANDSCAPE 20 Specification
Date:	September 2015

**Sample Reference**

Clay (<0.002mm)	%	U
Silt (0.002-0.063mm)	%	U
Sand (0.063-2.0mm)	%	U
Texture Class (UK Classification)	--	U
Stones (2-20mm)	% DW	G
Stones (20-50mm)	% DW	G
Stones (>50mm)	% DW	G
pH Value (1:2.5 water extract)	units	U
Electrical Conductivity (1:2.5 water extract)	uS/cm	U
Electrical Conductivity (1:2 CaSO <sub>4</sub> extract)	uS/cm	U
Organic Matter (LOI)	%	U
Total Nitrogen (Dumas)	%	U
C:N ratio	ratio	U
Extractable Phosphorus	mg/l	U
Extractable Potassium	mg/l	U
Extractable Magnesium	mg/l	U

**Specification**

5-35	BS
0-65	BS
30-85/90	BS
--	--
30	BS
10	BS
0	BS
5.5 - 8.5	BS
<1500	TOHA
<3300	BS
3.0 - 20.0	BS
>0.15	BS
<20:1	BS
16-140	BS
121-1500	BS
51-600	BS

Total Antimony (Sb)	mg/kg	M
Total Arsenic (As)	mg/kg	M
Total Barium (Ba)	mg/kg	M
Total Beryllium (Be)	mg/kg	M
Total Cadmium (Cd)	mg/kg	M
Chromium III (Cr)	mg/kg	M
Hexavalent Chromium (VI)	mg/kg	M
Total Copper (Cu)	mg/kg	M
Total Lead (Pb)	mg/kg	M
Total Mercury (Hg)	mg/kg	M
Total Nickel (Ni)	mg/kg	M
Total Selenium (Se)	mg/kg	M
Total Vanadium (V)	mg/kg	M
Total Zinc (Zn)	mg/kg	M
Water Soluble Boron (B)	mg/kg	M
Total (mono) Phenols	mg/kg	M

<500	S4UL
<37	S4UL
<1300	S4UL
<1.7	S4UL
<11	S4UL
<910	S4UL
<6	S4UL
<200	BS*
<200	SP1010
<1.2	S4UL
<180	S4UL
<250	S4UL
<410	S4UL
<300	BS*
<290	S4UL
<550	S4UL <sup>^</sup>

Naphthalene	mg/kg	M
Acenaphthylene	mg/kg	M
Acenaphthene	mg/kg	M
Fluorene	mg/kg	M
Phenanthrene	mg/kg	M
Anthracene	mg/kg	M
Fluoranthene	mg/kg	M
Pyrene	mg/kg	M
Benzo(a)anthracene	mg/kg	M
Chrysene	mg/kg	M
Benzo(b)fluoranthene	mg/kg	M
Benzo(k)fluoranthene	mg/kg	M
Benzo(a)pyrene	mg/kg	M
Indeno(1,2,3-cd)pyrene	mg/kg	M
Dibenzo(a,h)anthracene	mg/kg	M
Benzo(g,h,i)perylene	mg/kg	M

<5.6	S4UL <sup>^</sup>
<420	S4UL <sup>^</sup>
<510	S4UL <sup>^</sup>
<400	S4UL <sup>^</sup>
<220	S4UL <sup>^</sup>
<5400	S4UL <sup>^</sup>
<560	S4UL <sup>^</sup>
<1200	S4UL <sup>^</sup>
<11	S4UL <sup>^</sup>
<22	S4UL <sup>^</sup>
<3.3	S4UL <sup>^</sup>
<93	S4UL <sup>^</sup>
<2.7	S4UL <sup>^</sup>
<36	S4UL <sup>^</sup>
<0.28	S4UL <sup>^</sup>
<340	S4UL <sup>^</sup>

Aliphatic TPH (C5-C6)	mg/kg	M
Aliphatic TPH (C6-C8)	mg/kg	M
Aliphatic TPH (C8-C10)	mg/kg	M
Aliphatic TPH (C10-C12)	mg/kg	M
Aliphatic TPH (C12-C16)	mg/kg	M
Aliphatic TPH (C16-C21)	mg/kg	M
Aliphatic TPH (C21-C35)	mg/kg	M
Aliphatic TPH (C35-C44)	mg/kg	M
Aromatic TPH (C5-C7)	mg/kg	M
Aromatic TPH (C7-C8)	mg/kg	M
Aromatic TPH (C8-C10)	mg/kg	M
Aromatic TPH (C10-C12)	mg/kg	M
Aromatic TPH (C12-C16)	mg/kg	M
Aromatic TPH (C16-C21)	mg/kg	M
Aromatic TPH (C21-C35)	mg/kg	M
Aromatic TPH (C35-C44)	mg/kg	M

<78	S4UL <sup>^</sup>
<230	S4UL <sup>^</sup>
<65	S4UL <sup>^</sup>
<330	S4UL <sup>^</sup>
<2400	S4UL <sup>^</sup>
<92000	S4UL <sup>^</sup>
<92000	S4UL <sup>^</sup>
<140	S4UL <sup>^</sup>
<290	S4UL <sup>^</sup>
<83	S4UL <sup>^</sup>
<180	S4UL <sup>^</sup>
<330	S4UL <sup>^</sup>
<540	S4UL <sup>^</sup>
<1500	S4UL <sup>^</sup>
<1500	S4UL <sup>^</sup>

Benzene	mg/kg	M
Toluene	mg/kg	M
Ethylbenzene	mg/kg	M
p-xylene	mg/kg	M
m-xylene	mg/kg	M
o-xylene	mg/kg	M

<0.17	S4UL <sup>^</sup>
<290	S4UL <sup>^</sup>
<110	S4UL <sup>^</sup>
<130	S4UL <sup>^</sup>
<140	S4UL <sup>^</sup>
<140	S4UL <sup>^</sup>

Asbestos	ND/D	I
----------	------	---

Not-detected	COAR
--------------	------

BS	BS3882:2015
S4UL	LQM CIEH S4ULs (2015) for residential with homegrown produce
SP1010	Defra Development of Category 4 screening levels for assessment of land affected by contamination policy companion document - March 2014
COAR	Control of Asbestos Regulations (2012)
TOHA	Tim O'Hare Associates
*	pH dependant
^	Organic Matter level dependant
M	MCERTS accredited method (& UKAS accredited method)
U	UKAS accredited method
I	ISO 17025 accredited method
G	GLP accredited method

The contents of this certificate shall not be reproduced without the express written permission of Tim O'Hare Associates LLP