

**Material:** TS1 20mm Topsoil  
**Source:** Bourne Amenity Ltd  
**Date Tested:** 19/02/2019  
**Tested Against:** BS3882:2015 Multipurpose Grade  
**Tested By:** Tim O'Hare Associates (TOHA/19/7926/SS)

Parameter	Unit	BS3882:2015 Multipurpose Range	Result	Compliance
<b>Texture:</b>				
Clay (<0.002mm)	% w/w	5 - 30%	19	Yes
Silt (0.002 - 0.05mm)	% w/w	0 - 65%	20	Yes
Sand (0.05 - 2.0mm)	% w/w	20 - 90%	61	Yes
<b>Textural Class:</b>		<b>Sandy Clay Loam</b>		
Stones (2 - 20mm)	% w/w DW	0 - 30%	1	Yes
Stones (20-50mm)	% w/w DW	0 - 10%	1	Yes
Stones (>50mm)	% w/w DW	0%	0	Yes
<b>Organic Matter (LOI)</b>	% w/w	3.0 - 20.0	6.3	Yes
<b>Ph</b>		5.5 - 8.5	7.9	Yes
<b>Exchangeable Sodium Percentage</b>	%	< 15%	6.0	Yes
<b>Phytotoxic Contaminants:</b>				
Total Zinc (BS3882:2015)	mg/kg	< 300	55	Yes
Total Copper (BS3882:2015)	mg/kg	< 200	19	Yes
Total Nickel (S4UL)	mg/kg	< 180	13	Yes
<b>Available Nutrients:</b>				
Nitrogen	mg/l	>0.15	0.34	Yes
Phosphorus	mg/l	16 - 140	73	Yes
Potassium	mg/l	121 - 1500	1031	Yes
Magnesium	mg/l	51 - 600	117	Yes
<b>Carbon:Nitrogen Ratio</b>	:1	< 20:1	11	Yes
<b>Additional Analysis:</b>				
Electrical Conductivity (1:2.5 water extract)	µS/cm	1500	1307	Yes
Electrical Conductivity (1:2 CaSO4 extract)	µS/cm	3300	2870	Yes
Moisture Content	%	--	18	--
<b>Visible Contaminants:</b>				
Plastics (>2.0mm)	% w/w	< 0.5	0.00	Yes
Sharps (>2.0mm)	% w/w	< 0.25	0.00	Yes

Parameter	Unit	Guidelines	Value	Result	Compliance
<b>Heavy Metals and Hydrocarbons</b>					
Total Arsenic (As)	mg/kg	S4UL	<37	10	Yes
Total Barium (Ba)	mg/kg	S4UL	<1300	45	Yes
Total Beryllium (Be)	mg/kg	S4UL	<1.7	0.54	Yes
Total Cadmium (Cd)	mg/kg	S4UL	<11	0.4	Yes
Total Chromium III (Cr)	mg/kg	S4UL	<910	20	Yes
Hexavalent Chromium (Cr Vi)	mg/kg	S4UL	<6	<4.0	Yes
Total Cyanide (Cn)	mg/kg	Dutch Action Value (DAV)	<20	<1	Yes
Total Lead (Pb)	mg/kg	SP1010 (Defra Category 4)	<200	20	Yes
Total Mercury (Hg)	mg/kg	S4UL	<1.2	<0.3	Yes
Total (mono) Phenols	mg/kg	S4UL^	<550	<1.0	Yes
Total Selenium (Se)	mg/kg	S4UL	<250	<1.0	Yes
Total Vanadium (V)	mg/kg	S4UL	<410	31	Yes
Water Soluble Boron (B)	mg/kg	S4UL	<290	2.2	Yes
Acenaphthylene	mg/kg	S4UL^	<420	<0.05	Yes
Acenaphthene	mg/kg	S4UL^	<510	<0.05	Yes
Anthracene	mg/kg	S4UL^	<5400	<0.05	Yes
Benzo (a) Anthracene	mg/kg	S4UL^	<11	<0.05	Yes
Benzo (a) Pyrene	mg/kg	S4UL^	<2.7	<0.05	Yes
Benzo (b) Fluoranthene	mg/kg	S4UL^	<3.3	<0.05	Yes
Benzo (g,h,i) Perylene	mg/kg	S4UL^	<340	<0.05	Yes
Benzo (k) Fluoranthene	mg/kg	S4UL^	<93	<0.05	Yes
Chrysene	mg/kg	S4UL^	<22	<0.05	Yes
Dibenzo (a,h) Anthracene	mg/kg	S4UL^	<0.28	<0.05	Yes
Fluoranthene	mg/kg	S4UL^	<560	<0.05	Yes
Fluorene	mg/kg	S4UL^	<400	<0.05	Yes
Indeno (1,2,3-cd) Pyrene	mg/kg	S4UL^	<36	<0.05	Yes
Naphthalene	mg/kg	S4UL^	<5.6	<0.05	Yes
Phenanthrene	mg/kg	S4UL^	<220	<0.05	Yes
Pyrene	mg/kg	S4UL^	<1200	<0.05	Yes
Aliphatic TPH (C5 - C6)	mg/kg	S4UL^	<78	<0.001	Yes
Aliphatic TPH (C6 - C8)	mg/kg	S4UL^	<230	<0.001	Yes
Aliphatic TPH (C8 - C10)	mg/kg	S4UL^	<65	<0.001	Yes
Aliphatic TPH (C10 - C12)	mg/kg	S4UL^	<330	<1.0	Yes
Aliphatic TPH (C12 - C16)	mg/kg	S4UL^	<2400	2.5	Yes
Aliphatic TPH (C16 - C21)	mg/kg	S4UL^	<92000	<8.0	Yes
Aliphatic TPH (C21 - C35)	mg/kg	S4UL^		28	Yes
Aliphatic TPH (C5 - C35)	mg/kg	S4UL^	<92000	36	Yes
Aromatic TPH (C5 - C7)	mg/kg	S4UL^	<140	<0.001	Yes
Aromatic TPH (C7 - C8)	mg/kg	S4UL^	<290	<0.001	Yes
Aromatic TPH (C8 - C10)	mg/kg	S4UL^	<83	<0.001	Yes
Aromatic TPH (C10 - C12)	mg/kg	S4UL^	<180	<1.0	Yes
Aromatic TPH (C12 - C16)	mg/kg	S4UL^	<330	<2.0	Yes
Aromatic TPH (C16 - C21)	mg/kg	S4UL^	<540	<10	Yes
Aromatic TPH (C21 - C35)	mg/kg	S4UL^	<1500	34	Yes
Aromatic TPH (C5 - C35)	mg/kg	S4UL^	<1500	42	Yes
Benzene	mg/kg	S4UL^	<0.17	<0.001	Yes
Toluene	mg/kg	S4UL^	<290	<0.001	Yes
Ethylbenzene	mg/kg	S4UL^	<110	<0.001	Yes
O-xylene	mg/kg	S4UL^	<140	<0.001	Yes
M-xylene	mg/kg	S4UL^	<140	<0.001	Yes
P-xylene	mg/kg	S4UL^	<130		Yes
Asbestos	mg/kg	Control of Asbestos Regulations 2006	Absent	Absent	Yes