

**Material:** Intensive Lightweight Topsoil  
**Source:** Bourne Amenity Ltd  
**Date Tested:** 11/02/2019  
**Tested Against:** BS3882:2015 Multipurpose Grade  
**Tested By:** Tim O'Hare Associates (TOHA/19/7901/SS)

Parameter	Unit	BS3882:2015 Multipurpose Range	Result	Compliance
<b>Texture:</b>				
Clay (<0.002mm)	% w/w	5 - 30%	13	Yes
Silt (0.002 - 0.63mm)	% w/w	0 - 65%	11	Yes
Sand (0.05 - 2.0mm)	% w/w	20 - 90%	76	Yes
<b>Textual Class:</b>		<b>Sandy Loam</b>		
Stones (2 - 20mm)	% w/w DW	0 - 30%	3	Yes
Stones (20-50mm)	% w/w DW	0 - 10%	0	Yes
Stones (>50mm)	% w/w DW	0%	0	Yes
<b>Sand Fraction (USGA Sieve Sizes):</b>				
Very Fine Sand (0.05 - 0.15mm)	% w/w	n/a	22	--
Fine Sand (0.15 - 0.25mm)	% w/w	n/a	20	--
Medium Sand (0.25 - 0.50mm)	% w/w	n/a	24	--
Coarse Sand (0.50 - 1.0mm)	% w/w	n/a	7	--
Very Coarse Sand (1.0 - 2.0mm)	% w/w	n/a	3	--
<b>Organic Matter (LOI)</b>	% w/w	3.0 - 20.0	8.0	Yes
<b>Ph</b>		5.5 - 8.5	8.5	Yes
<b>Exchangeable Sodium Percentage</b>	%	< 15%	9.0	Yes
<b>Phytotoxic Contaminants:</b>				
Total Zinc	mg/kg	< 300	50	Yes
Total Copper	mg/kg	< 200	22	Yes
Total Nickel	mg/kg	< 180	10	Yes
<b>Available Nutrients:</b>				
Nitrogen	mg/l	>0.15	0.35	Yes
Phosphorus	mg/l	16 - 140	56	Yes
Potassium	mg/l	121 - 1500	1339	Yes
Magnesium	mg/l	51 - 600	118	Yes
<b>Carbon:Nitrogen Ratio</b>	:1	< 20:1	13	Yes
<b>Additional Analysis:</b>				
Electrical Conductivity (1:2.5 water extract)	µS/cm	1500	1519	No
Electrical Conductivity (1:2 CaSO4 extract)	µS/cm	3300	2755	Yes
Calculated Bulk Density 'as received'	g/m <sup>3</sup>	n/a	0.84	--
Bulk Density at Field Capacity	g/m <sup>3</sup>	n/a	1.45	--
Moisture Content 'as received'	%	n/a	19	--
Moisture Content at Field Capacity	%	n/a	53	--
Calculated Bulk Density at Saturation	g/m <sup>3</sup>	n/a	1.45	--
Total Porosity	%	n/a	52.8	--
Saturated Hydraulic Conductivity	mm/hr	n/a	54.6	--
<b>Visible Contaminants:</b>				
Plastics (>2.0mm)	% w/w	< 0.5	0.0	Yes
Sharps (>2.0mm)	% w/w	< 0.25	0.0	Yes

Bourne Amenity, The Wharf, Rye Road, Newenden, Kent TN18 5QG

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VAT No: 863 1196 22 • Registered in England No: 3453821

Parameter	Unit	Guidelines	Value	Result	Compliance
<b>Heavy Metals and Hydrocarbons</b>					
Total Antimony (Sb)	mg/kg	S4UL	<500	<1.0	Yes
Total Arsenic (As)	mg/kg	S4UL	<37	9	Yes
Total Barium (Ba)	mg/kg	S4UL	<1300	39	Yes
Total Beryllium (Be)	mg/kg	S4UL	<1.7	0.36	Yes
Total Cadmium (Cd)	mg/kg	S4UL	<11	<0.2	Yes
Total Chromium III (Cr)	mg/kg	S4UL	<910	13	Yes
Total Cyanide (Cn)	mg/kg	Dutch Action Value (DAV)	<20	<1	Yes
Total Lead (Pb)	mg/kg	SP1010 (Defra Category 4)	<200	24	Yes
Total Mercury (Hg)	mg/kg	S4UL	<1.2	0.8	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	20	Yes
Water Soluble Boron (B)	mg/kg	S4UL	<290	4.9	Yes
Water Soluble Sulphate (SO4)	g/l	BRE Special Digest 1:2005 (BRE)	<1.2	0.27	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	<0.01	Yes
Aliphatic TPH (C6 - C8)	mg/kg	S4UL^	<230	<0.01	Yes
Aliphatic TPH (C8 - C10)	mg/kg	S4UL^	<65	<0.01	Yes
Aliphatic TPH (C10 - C12)	mg/kg	S4UL^	<330	<1.0	Yes
Aliphatic TPH (C12 - C16)	mg/kg	S4UL^	<2400	<2.0	Yes
Aliphatic TPH (C16 - C21)	mg/kg	S4UL^		<8.0	Yes
Aliphatic TPH (C21 - C35)	mg/kg	S4UL^	<92000	<8.0	Yes
Aliphatic TPH (C35 - C44)	mg/kg	S4UL^	<92000	<8.4	Yes
Aromatic TPH (C5 - C7)	mg/kg	S4UL^	<140	<0.01	Yes
Aromatic TPH (C7 - C8)	mg/kg	S4UL^	<290	<0.01	Yes
Aromatic TPH (C8 - C10)	mg/kg	S4UL^	<83	<0.01	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	21	Yes
Aromatic TPH (C35 - C44)	mg/kg	S4UL^	<1500	<8.4	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	<0.001	Yes
MTBE	mg/kg	Sail Guideline Values	<470	<0.001	Yes
Asbestos	mg/kg	Control of Asbestos Regulations 2006	Absent	Absent	Yes

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