

Material: Aquatic Soil
Source: Bourne Amenity Ltd
Date Tested: 30/04/2018
Tested Against: BS3882:2015 Multipurpose Grade
Tested By: NRM Laboratories (Report ID 1001-18)

Parameter	Unit	2012 Olympic Park	Result	Compliance
Texture:				
Clay and Silt (<0.05mm)	% w/w	10 - 30%	15	Yes
Sand (0.05 - 2.0mm)	% w/w	70 - 90%	85	Yes
Medium and Fine Sand (0.15 - 0.5mm)	% w/w	>45%	40	No
Textual Class:	Sandy Loam			
Stones (2 - 20mm)	% w/w DW	15 - 30%	4.2	No
Stones (20-50mm)	% w/w DW	5 - 20%	1.3	No
Stones (>50mm)	% w/w DW	0%	0	Yes
Organic Matter (LOI)	% w/w	< 1.5	1.4	Yes
Ph		5.0 - 8.5	8.1	Yes
Phytotoxic Contaminants:				
Total Zinc	mg/kg	< 300	48.3	Yes
Total Copper	mg/kg	< 200	2.9	Yes
Total Nickel	mg/kg	< 180	26.8	Yes
Available Nutrients:				
Phosphorus	mg/l	16 - 140	11	No
Additional Analysis:				
Electrical Conductivity (1:2.5 water extract)	µS/cm	1500	245	Yes

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Parameter	Unit	Guidelines	Value	Result	Compliance
Heavy Metals and Hydrocarbons					
Total Antimony (Sb)	mg/kg	S4UL	<500	0.7	Yes
Total Arsenic (As)	mg/kg	S4UL	<37	27.8	Yes
Total Barium (Ba)	mg/kg	S4UL	<1300	23.6	Yes
Total Beryllium (Be)	mg/kg	S4UL	<1.7	0.9	Yes
Total Cadmium (Cd)	mg/kg	S4UL	<11	<0.1	Yes
Total Chromium III (Cr)	mg/kg	S4UL	<910	44.7	Yes
Hexavalent Chromium (Cr Vi)	mg/kg	S4UL	<6	<0.1	Yes
Total Cyanide (Cn)	mg/kg	Dutch Action Value (DAV)	<20	>1	Yes
Total Lead (Pb)	mg/kg	SP1010 (Defra Category 4)	<200	7.9	Yes
Total Mercury (Hg)	mg/kg	S4UL	<1.2	<0.2	Yes
Total (mono) Phenols	mg/kg	S4UL^	<550	<1	Yes
Total Selenium (Se)	mg/kg	S4UL	<250	0.39	Yes
Total Vanadium (V)	mg/kg	S4UL	<410	102	Yes
Water Soluble Boron (B)	mg/kg	S4UL	<290	0.2	Yes
Water Soluble Sulphate (SO4)	g/l	BRE Special Digest 1:2005 (BRE)	<1.2	0.06	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	<0.1	Yes
Benzo (a) Pyrene	mg/kg	S4UL^	<2.7	<0.1	Yes
Benzo (b) Fluoranthene	mg/kg	S4UL^	<3.3	<0.1	Yes
Benzo (g,h,i) Perylene	mg/kg	S4UL^	<340	<0.1	Yes
Benzo (k) Fluoranthene	mg/kg	S4UL^	<93	<0.1	Yes
Chrysene	mg/kg	S4UL^	<22	<0.1	Yes
Dibenzo (a,h) Anthracene	mg/kg	S4UL^	<0.28	<0.1	Yes
Fluoranthene	mg/kg	S4UL^	<560	<0.1	Yes
Fluorene	mg/kg	S4UL^	<400	<0.05	Yes
Indeno (1,2,3-cd) Pyrene	mg/kg	S4UL^	<36	<0.1	Yes
Naphthalene	mg/kg	S4UL^	<5.6	<0.05	Yes
Phenanthrene	mg/kg	S4UL^	<220	<0.1	Yes
Pyrene	mg/kg	S4UL^	<1200	<0.1	Yes
Aliphatic TPH (C5 - C6)	mg/kg	S4UL^	<78	<0.1	Yes
Aliphatic TPH (C6 - C8)	mg/kg	S4UL^	<230	<0.1	Yes
Aliphatic TPH (C8 - C10)	mg/kg	S4UL^	<65	<0.1	Yes
Aliphatic TPH (C10 - C12)	mg/kg	S4UL^	<330	<1	Yes
Aliphatic TPH (C12 - C16)	mg/kg	S4UL^	<2400	<1	Yes
Aliphatic TPH (C16 - C21)	mg/kg	S4UL^	<92000	<1	Yes
Aliphatic TPH (C21 - C35)	mg/kg	S4UL^	<92000	<1	Yes
Aliphatic TPH (C35 - C44)	mg/kg	S4UL^	<92000	<1	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	<0.1	Yes
Aromatic TPH (C10 - C12)	mg/kg	S4UL^	<180	<1	Yes
Aromatic TPH (C12 - C16)	mg/kg	S4UL^	<330	<1	Yes
Aromatic TPH (C16 - C21)	mg/kg	S4UL^	<540	<1	Yes
Aromatic TPH (C21 - C35)	mg/kg	S4UL^	<1500	<1	Yes
Aromatic TPH (C35 - C44)	mg/kg	S4UL^	<1500	<1	Yes
Benzene	mg/kg	S4UL^	<0.17	<0.02	Yes
Toluene	mg/kg	S4UL^	<290	<0.2	Yes
Ethylbenzene	mg/kg	S4UL^	<110	<0.04	Yes
O-xylene	mg/kg	S4UL^	<140	<0.1	Yes
M & P-xylene	mg/kg	S4UL^	<270	<0.2	Yes
MTBE	mg/kg	Sail Guideline Values	<470	<0.05	Yes