

Material: Aquatic Soil
Source: Bourne Amenity Ltd
Date: 22/05/2017
Tested Against: Aquatic Soil (2012 Olympic Specification)
Tested By: i2 Analytical (Report ID 17-48185)

Parameter	Unit	2012 Specification Range	Result	Compliance
Texture:				
Clay & Silt (<0.05mm)	% w/w	10 - 30	13	Yes
Sand (0.05-2.0mm)*	% w/w	70 - 90	87	Yes
Medium and Fine Sand (0.15 - 0.5mm)	% w/w	>45	61	Yes
Textural Class:		Sandy Loam		
Stones (2 - 20mm)	% w/w DW	15 - 30	19.00	Yes
Stones (20-50mm)	% w/w DW	5 - 20	0.0	Yes
Stones (>50mm)	% w/w DW	0	0.0	Yes
Organic Matter (LOI)	% w/w	0.0 - 1.5	1.8	No
Ph		5.0 - 8.5	7.3	Yes
Phytotoxic Contaminants:				
Total Zinc	mg/kg	0 - 200	65	Yes
Total Copper	mg/kg	0 - 100	2.1	Yes
Total Nickel	mg/kg	0 - 60	46	Yes
Available Nutrients:				
Phosphorus	mg/l	0 - 10	27	No
Potassium	mg/l	n/a	128	n/a
Magnesium	mg/l	n/a	240	n/a
Additional Analysis:				
Available Sodium	mg/l	n/a	73	n/a
Available Calcium	mg/l	n/a	1700	n/a
Electrical Conductivity (1:2:5 water extract)	uS/cm	0 - 800	2100	No
Electrical Conductivity (CaSO4 extract)	uS/cm	n/a	130	n/a
Visible Contaminants:				
>2.0mm	% w/w	0.0	0	n/a
Plastics	% w/w	0.0	0	n/a
Sharps	% w/w	0.0	0	n/a

Parameter	Unit	Guidelines	Value	Result	Compliance
Heavy Metals and Hydrocarbons					
Total Arsenic (As)	mg/kg	S4UL	<37	32	Yes
Total Barium (Ba)	mg/kg	S4UL	<1300	54	Yes
Total Beryllium (Be)	mg/kg	S4UL	<1.7	1.5	Yes
Total Cadmium (Cd)	mg/kg	S4UL	<11	<0.2	Yes
Total Chromium (Cr)	mg/kg	S4UL	<910	140	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	14	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	200	Yes
Water Soluble Boron (B)	mg/kg	S4UL	<290	0.4	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
Pyrene	mg/kg	S4UL	<1200	<0.05	Yes
Total PAHs (sum SUEPA16)	mg/kg	TOHA	<40	<0.80	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	<2.0	Yes
Aliphatic TPH (C16 - C21)	mg/kg	S4UL	<92000	<8.0	Yes
Aliphatic TPH (C21 - C35)	mg/kg	S4UL		<8.0	Yes
Aliphatic TPH (C35 - C44)	mg/kg	S4UL	<92000	<8.4	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	<10	Yes
Aromatic TPH (C35 - C44)	mg/kg	S4UL	<1500	<8.4	Yes
Benzene	mg/kg	S4UL	<0.17	<1.0	Yes
Toluene	mg/kg	S4UL	<290	<1.0	Yes
Ethylbenzene	mg/kg	S4UL	<110	<1.0	Yes
O-xylene	mg/kg	S4UL	<140	<1.0	Yes
M & P-xylene	mg/kg	S4UL	<270	<1.0	Yes
MTBE	mg/kg	Sail Guideline Values	<470	<1.0	Yes
Asbestos	mg/kg	Control of Asbestos Regulations 2006	Absent	Absent	Yes

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