

Material: 5mm Lawn Rootzone
Source: Bourne Amenity Ltd
Date: 03/01/2017
Tested By: Tim O'Hare Associates (TOHA/16/6953/3/SS)

Parameter	Unit	Result
Texture:		
Clay (<0.002mm)	% w/w	5
Silt (0.002 - 0.5mm)	% w/w	2
Very Fine Sand (0.05 - 0.15mm)	% w/w	5
Fine Sand (0.15 - 0.25mm)	% w/w	13
Medium Sand (0.25 - 0.50mm)	% w/w	48
Coarse Sand (0.50 - 1.0mm)	% w/w	23
Very Coarse Sand (1.0 - 2.0mm)	% w/w	4
Textual Class:	Sandy Loam	
Stones (>2mm)	% w/w DW	1
Stones (20-50mm)	% w/w DW	0
Stones (>50mm)	% w/w DW	0
Organic Matter (LOI)	% w/w	1.8
Ph	1:2.5 water extract	8.1
Exchangeable Sodium Percentage	%	2.4
Available Nutrients:		
Nitrogen	mg/l	0.08
Phosphorus	mg/l	24
Potassium	mg/l	436
Magnesium	mg/l	80
Carbon:Nitrogen Ratio	:1	13
Calcium Carbonate	%	<1.0
Additional Analysis:		
Electrical Conductivity (1:2.5 water extract)	µS/cm	364
Electrical Conductivity (1:2 CaSO4 extract)	µS/cm	2435
Saturated Hydraulic Conductivity	mm/hr	121
Total Porosity	%	47

Parameter	Unit	Guidelines	Value	Result	Compliance
Heavy Metals and Hydrocarbons					
Total Arsenic (As)	mg/kg	Soil Guideline Values CLEA 2009 (SGV)	<32	9	Yes
Total Cadmium (Cd)	mg/kg	SGV	<10	<0.2	Yes
Total Chromium (Cr)	mg/kg	SGV	<130	15	Yes
Hexavalent Chromium (Cr Vi)	mg/kg	Land Quality Management 2009 (LQM)	<4.3	<4.0	Yes
Total Copper	mg/kg	SGV	< 200	9.3	Yes
Total Cyanide (Cn)	mg/kg	Dutch Action Value (DAV)	<20	<1	Yes
Total Lead (Pb)	mg/kg	SGV	<450	8	Yes
Total Mercury (Hg)	mg/kg	SGV	<170	<0.3	Yes
Total Nickel	mg/kg	SGV	< 110	27	Yes
Total (mono) Phenols	mg/kg	SGV	<420	<1	Yes
Total Selenium (Se)	mg/kg	SGV	<350	<1.0	Yes
Total Zinc	mg/kg	SGV	< 300	23	Yes
Water Soluble Baron (B)	mg/kg	TOHA	<5	0.6	Yes
Acenaphthylene	mg/kg	LQM	<400	<0.10	Yes
Acenaphthene	mg/kg	LQM	<480	<0.10	Yes
Anthracene	mg/kg	LQM	<4900	<0.10	Yes
Benzo (a) Anthracene	mg/kg	LQM	<4.7	<0.10	Yes
Benzo (a) Pyrene	mg/kg	LQM	<0.94	<0.10	Yes
Benzo (b) Fluoranthene	mg/kg	LQM	<6.5	<0.10	Yes
Benzo (g,h,i) Perylene	mg/kg	LQM	<46	<0.05	Yes
Benzo (k) Fluoranthene	mg/kg	LQM	<9.6	<0.10	Yes
Chrysene	mg/kg	LQM	<8.0	<0.05	Yes
Dibenzo (a,h) Anthracene	mg/kg	LQM	<0.86	<0.10	Yes
Fluoranthene	mg/kg	LQM	<460	<0.10	Yes
Fluorene	mg/kg	LQM	<380	<0.10	Yes
Indeno (1,2,3-cd) Pyrene	mg/kg	LQM	<3.9	<0.10	Yes
Naphthalene	mg/kg	LQM	<3.7	<0.05	Yes
Pyrene	mg/kg	LQM	<1000	<0.10	Yes
Total PAHs (sum SUEPA16)	mg/kg	TOHA	<40	<1.6	Yes
Aliphatic TPH (C5 – C35)	mg/kg	LQM	<1100	<10	Yes
Aromatic TPH (C5 – C35)	mg/kg	LQM	<1100	<10	Yes
Benzene	mg/kg	SGV	<0.33	<0.001	Yes
Toluene	mg/kg	SGV	<610	<0.001	Yes
Ethylbenzene	mg/kg	SGV	<350	<0.001	Yes
O-xylene	mg/kg	SGV	<230	<0.001	Yes
M & P-xylene	mg/kg	SGV	<470	<0.001	Yes
MTBE	mg/kg	SGV	<470	<0.001	Yes

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