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Gateway House
Ipswich Road
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IP6 8EL
Lab VAT Reg. No. 901 9349 29
Lab contact: S. Johnson

ANALYSIS REPORT ~ COMPOSTED MATERIAL

Laboratory approved by the Association for Organics Recycling

Customer information

Composting site
Grade (particle size range) 10mm
Grade type
Certification code
Date sampled
Batch age when sampled
Producer's sample code KPS-IRC-010-278

Laboratory information

Received at lab 23 Feb 2016
Lab sample number 154105
Lab batch number 31434
Lab report code
Report by S. Johnson
Report date & time 17 Mar 2016
Report number ATLL31434#1

Particle size/physical contaminant tests only

SUMMARY ~ PAS 100 "PASS" OR "FAIL"

Parameter	Result	PAS 100 upper limit	Unit	Pass or Fail	Method Reference
<i>E. coli</i>		1000	CFU/g	Pass	BS ISO 16649-2
<i>Salmonella</i> spp		Absent	Absent or Present in 25 g	Pass	BS EN ISO 6579, Schedule 2, Part II.
Cadmium as Cd		1.50	mg/kg	Pass	BS EN 13650
Chromium as Cr		100.00	mg/kg	Pass	BS EN 13650
Copper as Cu		200.00	mg/kg	Pass	BS EN 13650
Lead as Pb		200.00	mg/kg	Pass	BS EN 13650
Mercury as Hg		1.00	mg/kg	Pass	BS ISO 16772
Nickel as Ni		50.00	mg/kg	Pass	BS EN 13650
Zinc as Zn		400.00	mg/kg	Pass	BS EN 13650
CO ₂ (stability)		16.0	mg CO ₂ /g OM/d	Pass	ORG0020
Weed plants ¹		0.0	number/l compost as received	Pass	OFW004-006
Glass, metal, plastic & other ^{2,3}	0.05	0.25	% of 'air-dry' sample > 2 mm	Pass	Afor MT PC&S
Plastic ³	0.01	0.12		Pass	
Sharps ³	0.00	R		R	
Stones in "mulch" ³	1.63	10.0	% of 'air-dry' sample > 4 mm	Pass	
Stones in other than "mulch" ³	1.63	8.0		Pass	

¹ If negative value, weed(s) present in control only, or if in test mix are attributable to its peat content.

² Excluding stones.

³ Please see 'N.B.:' note near the bottom of the Physical Contaminants report sheet.

^R Refer to composter's quality policy for upper limit allocated to the compost grade and intended market / end use, and evaluate sharps result against that limit.

Plant response test

Parameter	Result	PAS 100 min.	Unit	Pass or Fail	Method Reference
Tomato plants germinated		80.00	no. of plants, tests as % of controls	Pass	OFW004-006
Tomato plant top growth		80.00	average g / plant, tests as % of controls	Pass	
Tomato plant abnormalities		Absent	abnormal tomato plants in test trays	Pass	

Validity of the plant response test

Parameter	Result	Validity criterion	Outcome
Germination of tomato seeds sown in control trays		≥ 27 tomato seeds germinated in control trays by 14 days after sowing	Valid
Tomato plant top growth in control trays		≥ 1.50 g per tomato plant in control trays	Valid
Abnormal tomato plants in control trays		No abnormal tomato plants in control trays	Valid

ND = Not Determined, N/A = Not Applicable

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PHYSICAL CONTAMINANTS (air-dry sample)

Sieve apertures ¹	Glass	Metal	Plastic	Other ²	Description	Total ³	of which sharps ⁴	Stones ⁵	Method Reference
mm	g	g	g	g		g	g	g	
31.5	0.00	0.00	0.00	0.00		0.00	0.00	0.00	AfOR MT PC&S ¹
16.0	0.00	0.00	0.00	0.00		0.00	0.00	0.00	
8.0	0.00	0.00	0.00	0.00		0.00	0.00	0.00	
4.0	0.00	0.00	0.01	0.00		0.01	0.00	6.28	
2.0	0.16	0.00	0.01	0.00		0.17	0.00	ND	
1.0	ND	ND	ND	ND	N/A	ND	ND	ND	
Pan	ND	ND	ND	ND	N/A	ND	ND	ND	
% of total sample > 2 mm	0.04	0.00	0.01	0.00		0.05	0.00	N/A	
% of total sample > 4 mm	N/A	N/A	N/A	N/A		N/A	N/A	1.63	
PAS 100 upper limit for "mulch"			0.12			0.25	R	10.0	
Pass or Fail			Pass			Pass	R	Pass	
PAS 100 upper limit for other than "mulch"			0.12			0.25	R	8.0	
Pass or Fail			Pass			Pass	R	Pass	

¹ State whether with modification, i.e. apertures of any sieves added or omitted

² Any different physical contaminant type; name in 'Description'

³ 'Total' is for glass, metal, plastic and 'other'. N.B.: excludes stones

⁴ Sharps > 2 mm, of any inorganic physical contaminant type (excludes woody fragments)

⁵ Stones and other consolidated mineral contaminants

^R Refer to composter's quality policy for upper limit allocated to the compost grade and intended market / end use, and evaluate sharps result against that limit.

ND = Not Determined, N/A = Not Applicable

N.B.: Any compost sample evaluated for conformance to PAS 100:2005 is subject to an upper limit of 0.50 % m/m total physical contaminants, of which plastic shall not exceed 0.25 % m/m, whether the compost is supplied for use as a "mulch" or another type of product. The PAS 100:2005 upper limit for stones in "mulch" is 8 % m/m, or 16 % m/m if the compost is supplied for use other than as "mulch". These upper limits and the "B16"Pass" or "Fail" associated with the results are not included in the table above to avoid complications in data handling and reporting at the laboratory; when a certification body assesses conformance to PAS 100:2005, its assessor will evaluate the compost test results against the upper limits in that edition of the PAS.

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PARTICLE SIZE DISTRIBUTION (air-dry sample)

Sieve apertures mm	Sample Retained g	of which Compost Retained g	Cumulative		Method Reference
			Retained %	Passing %	
31.5	0.0	0.0	0.0	100.0	AfOR MT PC&S ¹
16.0	0.0	0.0	0.0	100.0	
12.0	ND	ND	0.0	100.0	
8.0	0.0	0.0	0.0	100.0	
4.0	14.5	8.2	2.2	97.8	
2.0	50.6	50.4	15.5	84.5	
1.0	93.1	93.1	40.1	59.9	
Pan	226.9	226.9	100.0	0.0	
Total	385.1	378.64			

¹ State whether with modification, i.e. apertures of any sieves added or omitted.

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12.0 mm aperture omitted