



GREEN LEAF RECYCLING LTD
LANE FARM
BEDLINGTON
NORTHUMBERLAND
NE22 6AA

ANALYSIS REPORT ~ COMPOSTED MATERIAL

Customer information

Composting site Lane Farm
Grade (particle size range) 0-15mm
Grade Type Principal
CA's Code GLR-LF-0015
Date sampled 08/10/2020
Batch age when sampled 17 weeks
Producer's sample code 6205

Laboratory information

Received at lab 09/10/2020
Lab sample name 6205 0-15MM 17 WEEKS
Lab sample number 116635
Report by Gina Graham
Report date 11/11/2020 11:55am
Report number 26284

POTENTIALLY TOXIC ELEMENTS¹ AND UNDESIRABLES

Parameter	As received (fresh)		In dry matter				Method reference
	Result	Units	Result	Pas100 upper limit	Units	Pass or Fail	
Arsenic as As	N/D	mg/l	N/D	N/A	mg/kg	N/A	
Cadmium as Cd	0.13	mg/l	0.31	1.50	mg/kg*	Pass	BS EN 13650
Chromium as Cr	9.55	mg/l	23.6	100.00	mg/kg*	Pass	BS EN 13650
Copper as Cu	20.5	mg/l	50.7	200.00	mg/kg*	Pass	BS EN 13650
Fluoride as Fl	N/D	mg/l	N/D	N/A	mg/kg	N/A	
Lead as Pb	21.7	mg/l	53.5	200.00	mg/kg*	Pass	BS EN 13650
Mercury as Hg	0.04	mg/l	0.11	1.00	mg/kg*	Pass	BS ISO 16772
Molybdenum as Mo	N/D	mg/l	N/D	N/A	mg/kg	N/A	BS EN 13650
Nickel as Ni	7.85	mg/l	19.4	50.00	mg/kg*	Pass	BS EN 13650
Selenium as Se	N/D	mg/l	N/D	N/A	mg/kg	N/A	
Zinc as Zn	50.6	mg/l	125	400.0	mg/kg*	Pass	BS EN 13650
Oils, Fats and Grease	N/D	mg/kg	N/D	N/A	mg/kg	N/A	

1 Zinc and Copper are required by plants but, similarly as with other PTEs, can be toxic to some plant species at high concentrations. Such effects are influenced by other factors, so may not necessarily occur if corresponding PTE upper limits are exceeded. Check plant response test results for any toxic effects.

N/D = Not Determined, N/A = Not Applicable, U/S = Unsuitable Sample

* The QP Manager (the 'web tool') requires the test result associated with this unit.

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PHYSICO-CHEMICAL PROPERTIES

Parameter	As received (fresh)		In dry matter		Method
	Result	Units	Result	Units	Reference
Bulk Density ¹	496	g/l*		g/l	BS EN 12580
Oven Dry Matter	81.7	% m/m	N/A		BS EN 13040
Moisture	18.3	% m/m	N/A		
Organic Matter (Loss On Ignition)	12.2	% m/v	30.1	% m/m*	BS EN 13039
Organic Carbon (LOI / 1.72)	N/A		17.5	% m/m*	Calculated
pH	7.3	N/A*	N/A		BS EN 13037
Electrical Conductivity	873	uS/cm @ 20 C	N/A		BS EN 13038
	0.87	mS/cm @ 20 C	N/A		
Liming potential	N/D	% m/m CaO	N/D	% CaO	See Footnote 2

1 Bulk density in dry matter is termed 'Dry Weight Density' and expressed in (g/l).

DWD = fresh bulk density (g/l) - volumetric moisture content (g/l)

2 'The Fertilisers (Sampling and Analysis) Regulations 1996' Schedule 2, Part II, Section 6 - 'Determination of the neutralising value of liming materials'. Method adaptation: the stage of passing the sample through a 1 mm sieve is omitted and results are expressed as % by weight of CaO on the undried sample, as received.

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If we are unable to accurately measure the density of the sample due to its non-homogeneous state, the density will be assumed to be 700 g/l.

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PATHOGENS

Parameter	As received (fresh)				Method Reference
	Result	PAS 100 upper limit	Unit	Pass or Fail	
E. coli at 44 C ³	80	1000	CFU/g	Pass	BS ISO 16649-2
Salmonella spp at 37 C ³	Absent	Absent	Abs/Pres	Pass	BS EN 6579

STABILITY / MATURITY

Parameter	As received (fresh)				Method Reference
	Result	PAS 100 upper limit	Unit	Pass or Fail	
Carbon dioxide (evolution rate) ³	9.4	16.0	mg CO ₂ / g organic matter / day	Pass	WRAP ORG0020
Proportion of particles < 20 mm ³	100	N/A	% g/g	N/A	

Parameter	As received (fresh)				Method Reference
	Result	Units	Result	Units	
NH ₄ -N : NO ₃ -N (ratio)	N/D	:1	N/D	:1	Calculated
Carbon : Nitrogen (ratio)	N/D		N/D	:1	Calculated
Self-heating (Dewer flask)	N/D	Max deg C increase	N/D		See footnote 1
Nitrogen Drawdown Index	N/D	None	N/D		AS 3743-2003 ²

1 Methods book for the analysis of compost, Bundesgutegemeinschaft Kompost e. V., 2002. ISBN 3-928179-33-0 (English translation, 2003)

2 Australian standard (2003), Appendix E, Potting Mixes. The Nitrogen Drawdown Index AS 3743 - 2003. (Indicates likelihood of nitrogen lock-up.)

3 Determinand has been analysed by a subcontractor approved and audited by the Appointed Laboratory (NRM)

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PLANT RESPONSE ~ GERMINATION AND GROWTH OF TOMATO PLANTS AND WEEDS

Method as per PAS 100:OFW004-006

Parameter	Peat unamended	Compost unamended	Unit
Quantity 'Selected before sieving'	981	988	g
Quantity 'Sieved, particles < 10 mm'	981	967	g
Proportion of particles < 10 mm'	100	98	% g/g
Electrical conductivity	24	873	uS cm
Bulk density	218	496	g/l
Mass dolomitic limestone mixed in	18	13.5	g
Mass fertiliser mixed in	4.8	4.8	g

Parameter	Peat control For 3 trays	Compost-peat test For 3 trays	Unit
Quantity of sieved peat	4.50	3.375	litres prepared
Quantity of sieved compost	0.00	1.125	litres prepared
Substrate(s) ratio (vol : vol)	4.50 : 0.00	3.00 : 1.00	peat:compost



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PLANT RESPONSE ~ GERMINATION AND GROWTH OF TOMATO PLANTS AND WEEDS

Method as per PAS 100:OFW004-006

Parameter	Peat control			Compost-peat test			Overall	Unit
	Tray 1	Tray 2	Tray 3	Tray 1	Tray 2	Tray 3		
Weed plants	0	0	0	0	0	0	0	per litre
PAS 100 upper limit							0.0	compost as
Pass or Fail							Pass	received
Germinated tomato plants								
10 days after sowing	10	7	9	9	9	10	107.7	test as % of
14 days after sowing	10	8	9	9	10	10	107.4	controls
28 days after sowing	10	8	9	9	10	10	107.4	
PAS 100 minimum performance							80.0	
Pass or Fail							Pass	
14 day total for all 3 trays	27						Test Valid	
Tomato plant growth after 28 days sowing								
Total mass per tray (g)	61.36	53.17	64.21	53.84	63.66	61.94	100.4	test as % of
Average mass per plant (g)	3.14	6.65	7.13	5.98	6.37	6.19	109.6	controls
PAS 100 minimum performance							80.0	
Pass or Fail							Pass	
Average tomato plant mass	5.64						Test Valid	
Observations at any time during test								
Abnormal Tomato Plants								
Description of Abnormalities:	No abnormal tomato plants in any tray.							
Abnormalities in plants grown in test sample trays that are not present in plants grown in control trays:	Absent							Pass
Assessment of Test Validity								
Abnormalities in plants grown in control trays:	Absent							
Valid if abnormalities absent in plants grown in control trays:								Test Valid
Additional factors affecting the report:	None.							

All of the above tests have been analysed by a subcontractor approved and audited by the Appointed Laboratory (NRM)

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PHYSICAL CONTAMINANTS (air-dry sample)

Sieve apertures	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	Zero	Zero	Zero	Zero		Zero	Zero	Zero	AfOR MT, PC&S ¹
16.0	Zero	Zero	Zero	Zero		Zero	Zero	Zero	
12.5	Zero	Zero	Zero	Zero		Zero	Zero	Zero	
8.0	Zero	Zero	Zero	Zero		Zero	Zero	6.07	
4.0	Zero	Zero	Zero	Zero		Zero	Zero	8.31	
2.0	0.29	Zero	0.07	Zero		0.36	0.29	Zero	
1.0	N/D	N/D	N/D	N/D	N/A	N/D	N/D	N/D	
Pan	N/D	N/D	N/D	N/D	N/A	N/D	N/D	N/D	
% of total sample > 2 mm	0.04	0.00	0.01	0.00		0.05	0.04	N/A	
% of total sample > 4 mm	N/A	N/A	N/A	N/A		N/A	N/A	1.95	
PAS 100 upper limit for 'mulch'			0.12			0.25	R	10.0	
Pass or Fail			Pass			Pass	R	Pass	
for other than 'mulch'			0.12			0.25	R	8.0	
Pass or Fail			Pass			Pass	R	Pass	

A = Paper/Card B = Textile C = Matting D = String G = Wool H = Cigarette Butt

1 State whether with modification, i.e. 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 > 2mm, or 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 allocation to the compost grade and intended market / end use, and evaluate sharps result against that limit.

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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	0.00	0.00	0.0	100.0	AfOR MT, PC&S ¹
16.0	0.00	0.00	0.0	100.0	
12.5	0.00	0.00	0.0	100.0	
8.0	15.40	9.33	1.3	98.7	
4.0	62.44	54.13	8.8	91.2	
2.0	95.14	94.78	21.8	78.2	
1.0	107.3	107.3	36.7	63.3	
Pan	458.9	458.9	100.0	0.0	
Total	739.2	724.4			

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

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SUMMARY ~ PAS100 "PASS" OR "FAIL"

Parameter	Result	PAS 100 upper limit	Unit	Pass or Fail	Method Reference
E. coli ¹	80	1000	CFU/g	Pass	BS ISO 16649-2
Salmonella spp ¹	Absent	Absent	Absent/Present	Pass	BS EN 6579
Cadmium as Cd	0.31	1.50	mg/kg	Pass	BS EN 13650
Chromium as Cr	23.6	100.00	mg/kg	Pass	BS EN 13650
Copper as Cu	50.7	200.00	mg/kg	Pass	BS EN 13650
Lead as Pb	53.5	200.00	mg/kg	Pass	BS EN 13650
Mercury as Hg	0.11	1.00	mg/kg	Pass	BS ISO 16772
Nickel as Ni	19.4	50.00	mg/kg	Pass	BS EN 13650
Zinc as Zn	125	400.00	mg/kg	Pass	BS EN 13650
CO2 (stability) ¹	9.4	16.0	mg/g OM / d	Pass	WRAP ORG0020
Weed plants ¹	0	0	number growing	Pass	PAS100:OFW004-006
Glass,metal,plastic and other	0.05	0.25	% of 'air-dry' sample	Pass	PAS100:2005, Annex E
Plastic	0.01	0.12	> 2mm	Pass	
Stones in "mulch"	1.95	10	% of 'air-dry' sample	Pass	
Stones in other than "mulch"	1.95	8	> 4mm	Pass	

Parameter	Result	PAS 100 min.	Unit	Pass or Fail	Method Reference
Plants germinated	107.4	80	no. of plants, test as % of controls	Pass	PAS100:OFW004-006
Plant top growth	109.6	80	average g / plant, tests as % of controls	Pass	
Tomato plant abnormalities	Absent	Absent	Abnormal tomato plants in test trays	Pass	

¹ Determinand has been analysed by a subcontractor approved and audited by the Appointed Laboratory (NRM)

OVERALL ASSESSMENT

Pass if all above results are 'Pass' and weed propagules and phytotoxins test is valid.

Fail if any of above results are 'Fail'.



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SUMMARY ~ PAS100 "PASS" OR "FAIL"

Validity of the Plant Response Test

Parameter	Result	Validity Criterion	Outcome
Germination of tomato seeds sown in control trays	27	>=27 tomato plants in control trays by 14 days after sowing	Valid
Tomato plant top growth in control trays	5.64	>2.00g per tomato plant in control trays	Valid
Abnormal tomato plants in control trays	Absent	No abnormal tomato plants in control trays	Valid

OVERALL ASSESSMENT

Pass if all above results are 'Pass' and weed propagules and phytotoxins test is valid.
Fail if any of above results are 'Fail'.

The sample was dispatched on the same day as sampling
The sample was received within 48 hours after dispatch.
The compost was received in a cool box with ice packs