

Compost Analysis Results

Laboratory results from jobs MA26034 and MA26048

Sample overview

Job No.	Sample ID	% Solids	Mode
MA26034	1A - Normal Mode	64.64	Normal Mode
MA26034	1B - Normal Mode	64.47	Normal Mode
MA26034	2A - Compost Mode	29.97	Compost Mode
MA26034	2B - Compost Mode	29.38	Compost Mode
MA26048	3 - Smart Mode	97.21	Smart Mode
MA26048	4 - Compost Mode	95.40	Compost Mode

Major composition and nutrients

Sample	Solids	N	C	Al	Ca	Cu	Fe	K	Mg	Mn	Na	P	S	Zn
	%	%	%	mg/kg	%	mg/kg	mg/kg	%	%	mg/kg	%	%	%	mg/kg
1A - Normal Mode	64.637	3.307	51.212	34.36	1.026	3.40	45.63	1.012	0.085	13.46	0.894	0.275	0.245	30.45
1B - Normal Mode	64.474	3.636	51.316	37.80	0.862	3.32	48.67	1.080	0.089	13.44	0.952	0.294	0.257	34.27
2A - Compost Mode	29.965	3.915	49.781	143.77	0.268	4.65	52.84	0.951	0.085	8.82	0.617	0.389	0.258	31.39
2B - Compost Mode	29.375	3.995	49.082	149.67	0.262	4.98	48.88	0.860	0.085	9.60	0.576	0.371	0.258	30.84
3 - Smart Mode	97.213	3.374	47.239	79.19	1.294	5.43	40.79	1.165	0.096	16.54	0.541	0.336	0.194	26.29
4 - Compost Mode	95.400	3.839	53.214	84.52	0.116	3.01	57.23	0.949	0.061	9.04	0.834	0.262	0.234	42.02

Trace element results

Values marked <DL were below the laboratory detection limit.

Sample	Cr	Co	As	Mo	Cd	Pb
	mg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
1A - Normal Mode	0.46	57.3	<DL	314.8	37.0	89.9
1B - Normal Mode	0.11	105.0	<DL	376.5	34.6	162.3
2A - Compost Mode	1.11	237.3	<DL	235.8	24.8	<DL
2B - Compost Mode	1.43	35.2	<DL	213.8	36.2	229.0
3 - Smart Mode	<DL	62.6	<DL	371.1	46.7	208.1
4 - Compost Mode	1.25	40.1	<DL	217.9	41.5	88.5

Detection limits

Analyte	Limit	Unit
N	0.05	%
C	0.1	%
Al	5	mg/kg
Ca	0.001	%
Cu	0.5	mg/kg
Fe	2	mg/kg
K	0.05	%
Mg	0.001	%
Mn	1	mg/kg
Na	0.001	%

Analyte	Limit	Unit
P	0.005	%
S	0.01	%
Zn	1	mg/kg
Cr	0.1	mg/kg
Co	10	µg/kg
As	50	µg/kg
Mo	20	µg/kg
Cd	5	µg/kg
Pb	50	µg/kg

Laboratory method summary

The following descriptions are taken from the method notes supplied with the laboratory spreadsheet.

Method	Brief description
Dumas method	Carbon and nitrogen content measured using an Elementar Vario Macro combustion analyser. A weighed sample is combusted at 960°C in excess oxygen. Nitrogen
Digest / ICP-OES / ICP-MS	Dried and ground material is digested using nitric and perchloric acid, brought to volume with water and internal standard, then measured by ICP-OES for typical p
Gravimetric water / solids content	Sample is weighed as received, dried at 105°C and reweighed. Percentage solids is calculated from dried weight divided by original weight $\times 100$.

Note: This document reformats the supplied laboratory spreadsheet for readability. It does not add pass/fail criteria or interpret the results against compost standards.