

www.compostquality.ca

SUMMARY OF ANALYSIS REPORT

То:	City Of Winnipeg 1120 Waverlet St. Winnipeg, Manitoba R3T0P4	CQA Member#:	
Attention:	Kimsong Bun	Sample I.D.:	BATCH6
Report#:	C20121-10228 C20121-70010	Sample Date: Reported Date:	4/27/2020 2020-5-8

Compost to be Manufacture in:

Feedstock: Leaf & Yard Residues

Manitoba

CQA COMPOST QUALITY & VALUE TESTING PARAMETERS REPORT

SAMPLE ID	RECOMMENDED END USE/MARKET
BATCH6	Category A
Regulatory	See Appendix I
Product Quality	See Appendix II
Product Value/ Soil	See Appendix III
Suitability*	(Soil, Enviro, Manure Compost)

The Compost Quality Alliance (CQA) is a voluntary quality monitoring program established by the Compost Council of Canada and the compost producers utilizing recognized standardized testing methodologies and uniform operating protocols to provide customer assurance in compost selection its use, and proper end-use utilization.

All analysis of this compost product was conducted and provided by A&L Canada Laboratories Inc. for the Compost Quality Alliance (CQA).

Haifeng Song, Senior Chemist



A&L Canada Laboratories Inc. London, Ontario Canada (519) 457-2575

*PLEASE NOTE: Major Nutrients under the Fertilizer Act and Regulations (CFIA)

Please see Appendix III for nutrient content (of impact to claims and labelling if used in declarations).

Prease see Appendix in for numeric content (or impact to claims and labeling in used in declarations). Compost is classified in Schedule II as a supplement, and as such nutrient guarantees are not mandatory. However, if any claims are made regarding nutritional value of the product, such as for composted manure, the product would then be classified as a supplement and a fertilizer, and the label would have to include the guarantees for the major nutrients. The guarantees for the major nutrients include the minimum amounts of Total Nitrogen (N), Available Phosphoric Acid (P2O5) and Soluble Potash K20. Source: T-4-120 - Regulation of Compost under the Fertilizers Act and Regulations. http://www.inspection.gc.ca/plants/fertilizers/trade-memoranda/t-4-120/eng/1307910204607/1307910352783

Ian McLachlin, Vice-President

A proud member of





Appendix I



CCME Guidelines 2005 & CFIA Fertilizer Act & Regulations:

Alberta, Manitoba, New Brunswick, Nova Scotia, Newfoundland, Prince Edward Island & Territories

A. Maximum Concentrations for Trace Metals in Compost+

		Category A	Category B
Trace Elements	Test Results	Maximum Concentr	ation within Product
	(ug/g)	(mg/kg d	lry weight)
Arsenic (As)	1.48	13	75
Cadmium (Cd)	BDL	3	20
Chromium (Cr)	9.33	210	**
Cobalt (Co)	2.12	34	150
Copper (Cu)	30.85	400	**
Lead (Pb)	14.29	150	500
Mercury (Hg)	BDL	0.8	5
Molybdenum (Mo)	1.00	5	20
Nickel (Ni)	7.26	62	180
Selenium (Se)	BDL	2	14
Zinc (Zn)	96.15	700	1850

 ** Upper limits are not established in the Trade Memorandum.

B. Foreign Matter in Composti

	Test Results	Category A	Category B
Foreign Matter		Contains no more than 1	
Pieces >25mm/500mL		piece of foreign matter	foreign matter > 25mm/500mL
Fleces >25mm/500mL	0	>25mm/500ml	
Sharp Foreign Matter			No more than 3 pieces of sharp matter
Pieces > 3mm/500mL	0	No sharp foreign matter	< 12.5mm/500mL
Pieces > 12.5mm/500mL	0	>3mm per 500ml	Note: This compost shall not be used in
Fields > 12.5mm/ 500mL	-		pastures, parks, or residential

C. Maturity/Stability+

Method	Test Results	Required Limits
CO ₂ Respiration Rate	BDL	\leq 4 mg of carbon in the form of carbon dioxide per gram of
CO ₂ Respiration Rate	BDL	organic matter per day
O ₂ Uptake Respiration Rate		\leq 400 mg oxygen/kg of volatile solids (or organic
O2 Uptake Respiration Rate		matter)/hour

D. Pathogens+

Pathogen	Test Results	Required Limits
Fecal Coliform (MPN/g dry)	<3	<1000 MPN/g of total solids calculated on a dry weight basis
Salmonella (P-A/25g(ml))	NEGATIVE	<3 MPN/4g total solids calculated on a dry weight basis

 $\ensuremath{\mathsf{tThe}}$ following references are from the CCME guidelines (PN1340), October 2005

*BDL = Below Detectable Limits

E. CFIA

Parameter	Test Results
Total Organic Matter (%)	49.59%
Moisture (%)	50.42%

All analysis conducted and prepared by: A L Canada Laboratories 2136 Jetstream Rd London, Ontario N5V 3P5 (519) 457-2575



Appendix II Finished Compost Quality



Parameter	Test Results
рН	8.1
Carbon to Nitrogen Ratio	13:1
Particle Size/Texture (inch)+	1/4 Inch
Soluble Salts (ms/cm)	1.9
Sodium Base Saturation (%Na)	1.28%
Major Nutrients	
Available Potassium (%K)	13.87%
Available Magnesium (%Mg)	22.67%
Available Calcium (%Ca)	62.18%

+ Majority of sample passes through this sieve size

Reference Compost Quality Parameters for CQA

Use	рН	C:N	Moisture	Particle Size	Soluble Salts	%Na
Remediation	5.8-8.5	10-40	NA	<2 in	<20	<3%
Soil Amendment	5.8-8.5	10-30	NA	<1/2 in	<6	<2%
Landscaping	5.8-8.5	12-22	<50%	<1/2 in	<5	<2%
Planting Media	5.5-7.8	12-22	<50%	<1/2 in	<4	<2%
Turf Establishment &	5.5-7.8	12-22	<50%	<3/8 in	<3	<1%
Topdressing	5.5-7.8	12-22	<50%	< 3/ 0 III	^ 3	~1%
Greenhouse Seeding	6-7	12-22	<25%	<1/4 in	<2	<0.5%
Greenhouse	6-7	12-22	<30%	<1/2 in	2-3.5	<0.5%
Establishement	0-7	12-22	\30 %	~1/2 111	2-3.5	<0.5%
Field Nursery	5.8-8	10-30	<50%	<1/2 in	<3.5	<1%
Agricultural Soil	6-8	10-30	<50%	<1/2 in	<20	nono
Amendments	0-0	10-20	~ 50%	×1/2 III	~20	none
Potting Soil	5.5-7.2	12-22	<50%	<1/4 in	<2	<1%

These are examples of some of the many end uses suitable for compost

Unrestricted Use: Category A - Compost that can be used in any application, such as agricultural lands, residential gardens, horticultural operations, the nursery industry, and other businesses. Category A criteria for trace elements are achievable using best source separated MSW feedstock, municipal biosolids, pulp and paper mill biosolids, or manure.

Restricted Use: Category B - Compost that has a restricted use because of the presence of sharp foreign matter or higher trace element content. Category B compost may require additional control when deemed necessary by a province or territory.

Note: For a compost to meet the unrestricted use category, it must meet the unrestricted (Category A) requirements for all trace elements and sharp foreign matter. If the compost fails one criterion of the guideline for unrestricted use but meets the criteria for restricted (Category B) use, then is is classified as a Category B product. Products that do not meet the criteria for either Category A or B must be used or disposed of appropriately.



Appendix III Compost Agricultural Product Value on as is basis



Agricultural End-Use	Analysis Result	Unit	Quantity in Ibs/Ton					
Physical Parameters								
Dry Matter	49.58%	%						
рН	8.1							
Bulk Density	536	kg/m3						
C:N Ratio	13:1							
	Fertilizer Equivalent Miner	als						
Nitrogen Total	2.08%	%	41.6					
Ammonium Nitrogen	6.57	ppm	0.01					
Total Phosphate (P as P205)	0.34%	%	6.8					
Total Potash (K as K20)	0.48%	%	9.6					
Calcium	4.72%	%	94.4					
Magnesium	1.85%	%	37.0					
Sulfur	1301.72	ppm	2.6					

The Compost Quality Assurance program goes beyond the provincial requirements to establish full value and appropriate enduse. The Compsot Report and Compost End-use table in Appendix II, has 10 different compost application uses from soil remediation, through to potting soil blends. Of note are available soluble salt limits and the percent available sodium for sensitive plants. Appendix III, lists the primary agricultural use parameters and quantitative nutrient content that reflects this compost samples agricultural end-use, and application value. This value includes macro and micro nutrients, soil building properties such as the addition of organic matter, increasing moisture holding capacity, and the soils slow release nutrients. These parameters improve beneficial soil health components soil structure and stability.

The results of our testing on this sample indicates that this product is a fine textured, compost (86%+ 1/4 in.), with rich mineral properties, which would meet criteria for agricultural soil amendment, blending and topdressing end-uses purposes. The C:N ratio 13:1 from Appendix II, on the soil suitability report indicates a low C:N ratio and indicating good nitrogen availability. The low C:N ratio in conjunction with the higher total nitrogen content listed in Appendix III indicates early high available nitrogen levels, and should be considered for crop planning. The proportion of available sodium (1.28% Na), which if used in too heavy a proportion could cause some problems with sensitive species. The sodium levels of this compost sample though high, is suitable for agricultural broadcast field applications and are made to improve the organic matter level and major nutrients phosphorus, potassium and magnesium levels. The compost is also rich in available calcium, sulfur, and iron, which make it ideal for soil enriching, and amendment. We recommend blending this material at a minimum of 2-3 parts soil blended to each part of this compost to dilute the sodium concentration.

Major Nutrients - Compost is classified in Schedule II (CFIA Fertilizer Act & Regulations) as a supplement, and as such, nutrient guarantees are not mandatory. However, if any claims are made regarding nutritional value of the product, such as for composted manure, the product would then be classified as a supplement and a fertilizer, and label would have to include the guarantees for the major nutrients. The guarantees for the major nutrients include the minimum amounts of Total Nitrogen (N), Available Phosphoric Acid (P205) and Soluble Potash (K20). Report Number: C20121-10228 Account Number: 01707

A & L Canada Laboratories Inc.

2136 Jetstream Road, London, Ontario, N5V 3P5 Telephone: (519) 457-2575 Fax: (519) 457-2664 C20121-10228



To: CITY OF WINNIPEG 1120 WAVERLET ST. WINNIPEG, MB R3T0P4

Attn: KIMSONG BUN

For: BATCH6

P.O. Number: 573006

Reported I Printed I	Date: Date:May 8, 2020)			COM	POST REF	ORT				Page: 1
Sample Number	Lab Number	рН		ime dex		Available Organic Matter %	Phosphoru P ppm		issium ppm	Magnesium Mg ppm	Calcium Ca ppm
BATCH6	81464	8.1	(5.9		39.1	621	21	732	1393	6283
Sulfur	Zinc	Mangar	nese	Iron	Copper	Boron	Sodium	Nitrate-N	Soluble	Nitrogen	Moisture
S ppm	Zn ppm	Mn pp	pm	Fe ppm	Cu ppm	B ppm	Na ppm	NO3-N ppm	Salt ms/cm	(Total) (%)	%
100	17.0	23		51	1.3	12.4	149	510	1.9	2.08	
						NTERPRETATIO	N				
CEC			Percent E	Base Saturation		Pro	portional Equiva	lents (meq)		Cation Ratio	C/N Rati
meq/100g	% BS	% K	% Mg	% Ca	% Na	К	Mg	Са	Na	Mg/K Ca/M	lg
50.5	100.0	13.87	22.67	62.18	1.28	7.01	11.46	31.42	0.65	2:1 3:1	13:1
Optimum	Range:	3 - 5	8 - 20	60 - 80		0.5 - 1.3				7:1 5:1	

CQA

* Results reported on a dry weight basis.

The results of this report relate to the sample submitted and analyzed.

* Crop yield is influenced by a number of factors in addition to soil fertility.

Results Authorized By:

Ian McLachlin, Vice President

No guarantee or warranty concerning crop performance is made by A & L.

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REPORT NUMBER: C20121-10228 ACCOUNT NUMBER: 01707

A & L Canada Laboratories Inc.

2136 Jetstream Rd, London, Ontario, N5V 3P5 Telephone: (519) 457-2575 Fax: (519) 457-2664



REPORT OF ANALYSIS

TO: CITY OF WINNIPEG 1120 WAVERLET ST. WINNIPEG, MB R3T0P4 RE: BATCH6 CANADA

DATE RECEIVED: 2020-04-30 **DATE REPORTED: 2020-05-08** PAGE: 1 / 1 P.O. NUMBER: 573006

Attn: KIMSONG BUN

LAB NO.	SAMPLE ID	ANALYSIS	RESULT	UNIT	METHOD
81464	BATCH6	Nitrogen (Total)	2.1	%	TMECC.04.02-D



Results Authorized By:

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REPORT NO. C20121-70010

ACCOUNT NUMBER 01707 **A & L Canada Laboratories Inc.** 2136 Jetstream Road, London, ON, N5V 3P5 Tel: (519) 457-2575 Fax: (519) 457-2664

TO:CITY OF WINNIPEG 1120 WAVERLET ST. WINNIPEG, MB R3T0P4 CANADA

Canada ATTN:Kimsong Bun

Phone:204-619-4171

CERTIFICATE OF ANALYSIS

FOR:BATCH 6

PROJECT NO:

PO#: LAB NUMBER:1217012 SAMPLE ID:BATCH 6 PAGE: 1 / 3

SAMPLE MATRIX:COMPOST DATE SAMPLED:NONE GIVEN DATE RECEIVED:2020-04-30 DATE REPORTED:2020-05-07 DATE PRINTED:2020-05-08

PARAMETER	Result	UNIT	DETECTIO LIMIT	N METHOD REFERENCE
Arsenic	1.48	ug/g	1.00	EPA 3050B/6010B(mod) *
Cadmium	BDL	ug/g	1.00	EPA 3050B/6010B(mod) *
Cobalt	2.12	ug/g	1.00	TMECC.04.06;EPA 3050/6010(mod)
Chromium	9.33	ug/g	1.00	TMECC.04.06;EPA 3050/6010(mod*
Copper	30.85	ug/g	1.00	TMECC.04.06;EPA 3050/6010(mod)
Mercury	BDL	ug/g	0.10	EPA 7471 *
Molybdenum	1.0	ug/g	1.0	TMECC.04.06;EPA 3050/6010(mod*
Nickel	7.26	ug/g	1.00	TMECC.04.06;EPA 3050/6010(mod)
Lead	14.29	ug/g	1.00	EPA 3050B/6010B(mod) *
Selenium	BDL	ug/g	1.00	EPA 3050/6010 (mod) *
Zinc	96.15	ug/g	1.00	TMECC.04.06;EPA 3050/6010(mod)

* - accredited test BDL - Below detectable levels The results of this report relate to the sample submitted and analyzed.



Results Authorized By:

Haifeng Song, Ph.D., C.Chem. Lab Director

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ACCOUNT NUMBER 01707

TO:CITY OF WINNIPEG 1120 WAVERLET ST. WINNIPEG, MB R3T0P4 CANADA Canada ATTN:Kimsong Bun

Phone:204-619-4171

CERTIFICATE OF ANALYSIS

FOR:BATCH 6

PROJECT NO:

PO#: LAB NUMBER:1217012 SAMPLE ID:BATCH 6 SAMPLE MATRIX:COMPOST DATE SAMPLED:NONE GIVEN DATE RECEIVED:2020-04-30 DATE REPORTED:2020-05-07 DATE PRINTED:2020-05-08

PAGE:

PARAMETER	Result	UNIT	DETECTION LIMIT	METHOD REFERENCE
E. coli	<3	MPN/g dry	3	TMECC 07.01
Salmonella spp.	NEGATIVE	P-A/	1 CFU	MFLP-75 *
		25.0g(ml)		
Fecal Coliform	<3	MPN/g dry	3	TMECC 07.01
Total sharps > 2.8 mm*	0	pieces/500ml		TMECC 03.08
Total sharps > 12.5 mm	0	pieces/500ml		TMECC 03.08
Total FM > 2.8 mm*	BDL	%	0.01	TMECC 03.08
Total FM > 25 mm	0	pieces/500ml		TMECC 03.08
Total plastics > 2.8 mm*	BDL	%	0.01	TMECC 03.08
Total Organic Matter @ 550 deg C	49.59	%	0.10	LOI@550C
Moisture	50.42	%	0.10	TMECC.03.09-A
Sieve 2 Inch (% Passing)	100.00	%	0.10	ASTMD422
Sieve 1 Inch (% Passing)	100.00	%	0.10	ASTMD422
Sieve 1/2 Inch (% Passing)	99.40	%	0.10	ASTMD422
Sieve 3/8 Inch (% Passing)	96.10	%	0.01	ASTMD422
Sieve 1/4 Inch (% Passing)	85.80	%	0.10	ASTMD422
Compost Stability Index	8			TMECC.05.08-B
Respiration-mgCO2-C/g OM/day	BDL	mgCO2-C/	0.01	TMECC.05.08-B
		gOM/day		
Respiration - mgCO2-C/g TS/day	BDL	mgCO2-C/	0.01	TMECC.05.08-B
		gTS/day		

Maturity Index: 8 - Inactive, highly matured compost, very well aged, possibly over-aged, like soil; no limitations for usage.

* - accredited test

BDL - Below detectable levels

The results of this report relate to the sample submitted and analyzed.



Results Authorized By:

Haifeng Song, Ph.D., C.Chem. Lab Director

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ACCOUNT NUMBER 01707

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3 / 3

TO:CITY OF WINNIPEG 1120 WAVERLET ST. WINNIPEG, MB R3T0P4

CANADA Canada

ATTN:Kimsong Bun

Phone:204-619-4171

CERTIFICATE OF ANALYSIS

UNIT

%

%

ug/g

ug/g

%

Result

As Received

49.58

27.55

6.57

4001.11

0.48

DETECTION

LIMIT

0.10

0.10

.01

5.00

0.05

PROJECT NO:

PARAMETER

Metals

Boron

Iron

Calcium

Sodium

Sulphur

Potassium

PO#: LAB NUMBER:1217012 SAMPLE ID: BATCH 6

Total Solids (as received)

Nitrogen & Carbon Total Organic Carbon

Ammonia (NH3/NH4-N)

Total Potassium (as K20)

SAMPLE MATRIX:COMPOST DATE SAMPLED:NONE GIVEN DATE RECEIVED:2020-04-30 DATE REPORTED:2020-05-07 DATE PRINTED:2020-05-08

METHOD REFERENCE

Gravimetric

Combustion

Colourimetric

TMECC.04.06

ICP

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Result Dry

Weight

13.25

8070.00

0.97

* - accredited test BDL - Below detectable levels

The results of this report relate to the sample submitted and analyzed.

Results Authorized By:

TMECC.04.06 * Phosphorus 2948.00 1461.62 5.00 ug/g Total Phosphorus (as P205) 0.68 0.34 % 0.05 ICP Aluminum 1681.01 5.00 TMECC.04.06 * 3390.50 ug/g 98.00 48.59 1.00 TMECC.04.06 ug/g 9.53 4.72 % 0.01 TMECC.04.06 2558.33 5160.00 ug/g 5.00 TMECC.04.06 * 3.74 1.85 TMECC.04.06 Magnesium % 0.01 161.50 TMECC.04.06 Manganese 80.07 ug/g 1.00 0.11 0.05 % 0.01 TMECC.04.05 * TMECC.04.06 * 2625.50 1301.72 ug/g 5.00 Additional Parameters Bulk Density (as Recieved) 536 10 kg/m3 Gravimetric Conductivity (@ 25 deg C) 3.08 0.02 **Conductivity Meter** ms/cm

PAGE:

FOR:BATCH 6