Soil, Water, and Plant Testing Lab

A319 NESB

200 W. Lake St.

Fort Collins, CO 80523

970-491-5061

Soil Analysis Report

Billing: CC18769

Submitted By: 1

H1644b Lab No.

Date Received:

4/6/20

Date Reported:

5/8/20

Sample Date:

4/6/20

Sample ID: compost Amendment Type: compost

arameter	As Received Ba	d 313	Dry Matter Ba	J13	method*
Total Solids (%)	71.4		100		03.09-A
Moisture (%)	28.6		0	1	03.09-A
Organic Matter (%)	15.2		21.3	Ž.	05.07-A
Ash (%)	56.2		78.7		05.07-A
					04.10.4
Soluble Salts (1:5, mmhos/cm)	3.1		30,000		04-10-A
Soluble salts (paste, mmhos/cm)	11.5		NAME OF THE PROPERTY OF THE PR	3	04-11-A
pH 1:5	7.9		200	<u> </u>	U4-11-A
pH (paste)	7.6			lbs/ton	
		bs/ton	1.996	39.9	04.02-D
Total Nitrogen (%)	1.4251	28.5		39.9	Calc
Organic Nitrogen (%)	1.4170	28.3	1.985 0.0075	39.1	04.02-C
Ammonium-Nitrogen (%)	0.0053		N	ii .	04.02-C
Ammonium-Nitrogen (ppm)	53.4		74.8	1	04.02-C 04.02-B
Nitrate-Nitrogen (%)	0.0028		0.0039		04.02-B
Nitrate-Nitrogen (ppm)	28.0		39.2	4 42	04.02-B 04.03-A
Total Phosphorus as P (%)	0.1529	3.1	0.214	4.3 9.8	04.03-A
Total Phosphorus as P2O5 (%)	0.3501	7.0	0.490	3	04.03-A 04.04-A
Total Potassium as K (%)	0.8483	17.0	1.1881	23.8 28.5	2
Total Potassium as K2O (%)	1.0180	20.4	1.4257	28.3	04.04-A
	<u> </u>		12.72		
total C (%)	9.8		13.73		Calc
C/N ratio	6.9		6.9 1.91	<u> </u>	Calc
Ammonium-N/Nitrate-N Ratio	1.91	8	0.30	*	6E1c**
Lime (% calcium carbonate)	0.212	ma=/100=	U.3U	meq/100g	OUTC
		meq/100g	682	meq/100g	9-3.1***
Extractable calcium (mg/kg)	487	2.435	136	1.1	9-3.1***
Extractable magnesium (mg/kg)	97.3	0.811	144	0.6	9-3.1***
Extractable sodium (mg/kg)	103	0.448	6350	16.3	9-3.1***
Extractable potassium (mg/kg)	4534	11.626	20	0.1	9-3.1***
water soluble Ca (mg/kg)	14.2	0.071	7	0.1	9-3.1***
water soluble Mg (mg/kg)	5.2	0.043 0.095	31	0.1	9-3.1***
water soluble Na (mg/kg)	21.9		408	1.0	9-3.1***
water soluble K (mg/kg)	291 473.800	0,746	662	3.3	9-3.1***
Exchangeable Ca (mg/kg	472.800	2.364		1.1	9-3.1***
Exchangeable Mg (mg/kg	92.100	0.768	129 114	0.5	9-3.1***
Exchangeable Na (mg/kg)	81.100	0.353	5943	15.2	9-3.1***
Exchangeable K (mg/kg)	4243.000	10.879	3943	20	9-3.1 4B4b1**
CEC (meq/100g)	10.1			20	4F3b**
Saturated paste calcium (meq/L)	10.1			3	4F3b**
Saturated paste magnesium (meq/L)	12.3	į.		1	4F3b**
Saturated paste sodium (meq/L)	34.3			7 0 2	4F3b**
Saturated paste potassium (meq/L)	76.3			1	4F3b**
Sodium Adsorption Ratio (SAR)	10.2	227/0	199		41.30
			644		AD D===
Plant available phosphorus (ppm)	458	***	641	1	AB-DTPA
Plant available potassium (ppm)	4534	12200	6350	9	AB-DTPA
Plant available zinc (ppm)	7.9	į.	11.1	1	AB-DTPA
Plant available iron (ppm)	97.5		136.6	-	AB-DTPA
Plant available manganese (ppm)	40.2		56.3	1	AB-DTPA
Plant available copper (ppm)	202		282.9		AB-DTPA
total zinc (ppm)	48.5	*	67.9		3050/6010
total iron (ppm)	7858		11006	i i	3050/6010

total copper (pp	om)	0.8	· ·		1	3050/6010
	om)	17.9			25.1	3050/6010
$respective = \frac{1}{2} \left(s_1 s_2 s_3 s_4 s_4 s_5 s_5 s_6 s_7 s_8 s_7 $	satus par menggi samunian mengenterakan aupak hin saka ken				en e	anan da sa
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ethods 3050(digestion) and 6010 (analysis)	from SW-846. ***	Methods of Soil A	nalysis. A.L. Page (ed),	ASA, 1982		
PA is ammonium bicarbonate-DTPA. organic matter is high, however the C/N	N ratio is love in	dicating that nit	rogon chould not be	immohilized hy hi	gh carbon	
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salts are high indicating that this ma						ana di panganan ang kananan ang kanana Panganan ang kananan ang k
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Moisture (%) : The per					÷.	1
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	: Ammonium-nitrogen expressed as ppm.
Nitrate-Nitrogen (%)	: The percent of inorganic nitrogen that is soluble in water that can be used immediately
	by plants.
Nitrate-Nitrogen (ppm)	: Nitrate-nitrogen expressed as ppm.
Total Phosphorus as P (%)	: Mineral P, ortho-P and organic P. As the compost decomposes it will convert mineral P and organic P to ortho-P, which is the form of P that plants will use from the soil.
Total Phoenhorus as P2O5 (%)	: Total P times 2.29 to express P as P2O5 in percent. Having P expressed as P2O5 will help
TOTAL PROSPRIOTUS AS P2003 (76)	in comparing this product with other fertilizer/compost products
Total Potassium as K (%)	: Mineral K, organic K, and water soluble or plant available K. As the compost decomposes
	the mineral K and organic K will convert to plant available K.
Total Potassium as K2O (%)	: Total K times 1.2 to express K as K2O. Having K expressed as K2O will help in comparing
	this product with other fertilizer/compost products.
C/N ratio	: This is the ratio of total carbon to total nitrogen. Class I composts have C/N ratios of less
	than 12. As the C/N ratio increases, nitrogen may become immobilized and unavailable for
	plant growth due to increased microbial activity. Composts with higher C/N ratios can still
	be used effectively if they are not over-applied.
nmonium-N/Nitrate-N Ratio	:The ratio of ammonium-N to nitrate-N. A high ratio indicates that ammonium-N is much
	greater than nitrate-N and that the material has not composted long enough. A small ratio
geografischen State (und eine Australiere ein neutzere weltzelt ein zuste Austral einzelt zu zu zu zu zu zu zu	indicates that most of the ammonium-N has been converted to nitrate-N indicating that
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following is an explanatio	composting process. A class I compost has an ammonium-N/nitrate-N ratio of < 4. on of the parameters measured (continued):
generale not ny grand ning dianet na teté west i et worden in eau de nin 1,5 de 1952/1974 als 700 (4,5 200).	on of the parameters measured (continued): : Lime usually consists of either calcium carbonate or magnesium carbonate, but is
generale not ny grand ning dianet na teté west i et worden in eau de nin 1,5 de 1952/1974 als 700 (4,5 200).	on of the parameters measured (continued): : Lime usually consists of either calcium carbonate or magnesium carbonate, but is expressed as percent calcium carbonate or percent calcium carbonate equivalence. Low
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