

# Woods End Research Laboratory, Inc.

Old Rome Road, P.O. Box 297  
 Mount Vernon, ME 04352/USA  
 207-293-2457 FAX: 207-293-2488 www.woodsendlab.org

Account: 2191  
 · Brian Pugh  
 · City of Fayetteville SWRD Compost Div.  
 · 1560 Happy Hollow Road  
 · Fayetteville AR 72701

Code: RSAP Project: n/a  
 Date Received : 09/02/2004  
 Date Reported : 09/02/2004  
 Lab ID Number : 6167.0  
 Quality Checked : *SPD 9/2/04*

## COMPOSITION ANALYSIS

Sample Identification: Compost: City of Fayetteville YardWaste Compost

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
DENSITY .....	lbs·ft <sup>3</sup>	-	42	1146 lbs/yd <sup>3</sup>
Solids .....	%	100.0	39.7	794 lbs/ton
Moisture .....	%	0.0	60.3	145 gals/ton
est. water holding capacity .....	%	162	62	148 gals/ton
Inert and Oversize Matter .....	%	~	1.3	26.0 lbs/ton
pH (paste, H <sub>2</sub> O) .....	-logH <sup>+</sup>	~	8.50	High
Free Carbonates (CO <sub>3</sub> ) .....	Rating	~	2	Med-High
Organic Matter .....	%	49.7	19.7	394 lbs/ton
Conductivity .....	mmhos·cm <sup>-1</sup>	~	1.2	Low
Carbon:Nitrogen (C:N) Ratio .....	w:w	13.1	13.1	M. Low
<b>Seedling Response Assay, Percent of Control .....</b>				
<i>Lepidium sativum</i> Germination .....	%	~	100	No Phytotoxicity
<i>Lepidium sativum</i> Weight .....	%	~	69	Fair
Solvita CO <sub>2</sub> Rate .....	(see chart)	~	7	Low
Solvita NH <sub>3</sub> Rate .....	(see chart)	~	5	Absent
Maturity Index .....	(see chart)	~	7	Mature

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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†For explanation of data, see Woods End Laboratory [Interpretation Sheet](#)

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### MINERALS ANALYSIS

Sample Identification: Compost: City of Fayetteville YardWaste Compost

VARIABLE MEASURED	Unit	dry basis	as is basis	pounds/ton <i>as is</i>
<b>..... Total Mineral Nutrients .....</b>				
Total Nitrogen .....	%	2.048	0.813	16.3
Organic-Nitrogen .....	%	1.994	0.791	15.8
Phosphorus (P) .....	%	0.200	0.079	1.6
Potassium (K) .....	%	0.544	0.216	4.3
Sodium (Na) .....	%	0.014	0.006	0.1
Calcium (Ca) .....	%	5.840	2.318	46.4
Magnesium (Mg) .....	%	0.336	0.133	2.7
<b>..... Soluble Nutrients .....</b>				
Ammonium-N (NH <sub>4</sub> -N) .....	ppm	70	28	0.1
Nitrate-N .....	ppm	462	183	0.4
Nitrite-N .....	ppm	12	5	-
Chloride (Cl) .....	ppm	182	72	0.14
Sulfate (SO <sub>4</sub> -S) .....	ppm	152	60	0.12

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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**METALS ANALYSIS**

Sample Identification: Compost: City of Fayetteville YardWaste Compost

VARIABLE MEASURED	Unit	dry basis	as is basis‡	pounds/ton <i>as is</i>
Copper (Cu) .....	mg·kg <sup>-1</sup>	27.2	10.8	<0.1
Manganese (Mn) .....	mg·kg <sup>-1</sup>	1960.0	778.1	1.6
Iron (Fe) .....	mg·kg <sup>-1</sup>	9640.0	3827.1	7.7
Zinc (Zn) .....	mg·kg <sup>-1</sup>	162.0	64.3	0.1
Chromium (Cr) .....	mg·kg <sup>-1</sup>	<8.0	< 3.2	n.a.
Cadmium (Cd) .....	mg·kg <sup>-1</sup>	4.0	-	-
Nickel (Ni) .....	mg·kg <sup>-1</sup>	24.0	-	-
<b>..... BACTERIOLOGIC ANALYSIS.....</b>				
Fecal coliform EPA503 .....	MPN per g	< 5	-	

Notes: mg·kg<sup>-1</sup> = ppm (parts per million); MPN = most probable number

< signifies *less than MLD* (minimum level of detection) for the particular factor tested

‡ = EPA reporting requires dry basis only

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