



# Soil and Plant Laboratory, Inc.

www.soilandplantlaboratory.com

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NLAC  
P.O. Box 673  
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COMPOST EVALUATION  
(A91)

Santa Clara Office  
Lab No. 06-341-0009  
TFC

Samples Taken: 12/ 5/06      Samples Rec'd: 12/ 7/06

Job # 60320

### TOTAL NUTRIENT LEVELS

Sam ple #	Percent								Parts Per Million						Sample Description	Log Number
	N	P	K	Ca	Mg	Na	S		Cu	Zn	Mn	Fe	B			
51968	1.97	0.36	0.94	1.49	0.28	0.26	0.33	115	156	167	1080	12		1/4 Inch Dairy Solids	1.0006-G13214 SC-42	
12/13/06																

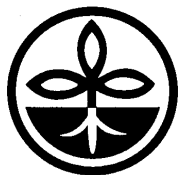
### AVAILABLE NUTRIENT LEVELS

Sam ple #	Half Sat%/TEC	pH/ Qual Lime	Parts Per Million Parts Dry Soil											Sat Ext		Sat Ext meq/l		dilute acid Fe %
			NO <sub>3</sub> N	NH <sub>4</sub> N	PO <sub>4</sub> P	K	Ca	Mg	Cu	Zn	Mn	Fe	B ppm	SO <sub>4</sub>	Na As %	Cl % of ECe		
51968	255 571	7.7 Low	3.0	6	18	397	7954	6696	1774	15.4	74	33	30	0.08	1.4	5.4	12.5	0.010
				0.0		1.3	5.3	0.7	1.3	2.1	2.6	0.5	0.1	0.3	0.5	16.5	37.9	

### PHYSICAL PROPERTIES

-----Fraction of Sample Passing 1/2 Inch Screen-----																
Sam ple #	As Received			Values Based upon dry weight						Est. C/N Ratio						
	Wt Percent Retained	Bulk Density lbs/yd <sup>3</sup>	Water Moisture %	Dry Matter lbs/yd <sup>3</sup>	Organic Fraction	Mineral Fraction	Organic %	9.51 mm	6.35 mm		4.75 mm	2.38 mm	1.00 mm	0.50 mm		
51968	0.0	0.1	623	65.5	408	215	196	19	91.0	100.	100.	99.0	85.6	39.4	16.4	25.7

Salinity (ECe (dS/m at 25 deg.C.)) by sat ext method. Available Major Nutrients by sodium chloride extraction. Phosphorus by sodium bicarbonate extraction. Micronutrients by DTPA extraction. Interpretation guide below each element (1.0=predicted sufficiency level for average fertility requiring crops). TEC(listed below Half Sat)=Est. Total Exchangeable Cations (meq/kg) Total Nutrient values expressed as element in oven dried sample ground to 40 mesh. Total N (corrected for moisture content) is determined on as received sample. N=nitrogen, P=phosphorus, K=potassium Ca=calcium, Mg=magnesium, Na=sodium, S=sulfur, Cl=chloride, Cu=copper, Zn=zinc, Mn=manganese, Fe=iron and B=boron.



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Job # 60320

Sample 51968 - 1/4 Inch Dairy Solids

Log Number 06-G13214

ELEMENT OF INTEREST	AMOUNT PER CUBIC YARD		AMOUNT PER TON, As Rec'd at 65.5% Moisture		AVAILABLE % OF TOTAL
	TOTAL	AVAILABLE	TOTAL	AVAILABLE	
Nitrogen	4.23 lbs	0.01 lbs	13.59 lbs	0.02 lbs	0.12
Phosphorus	0.77 lbs	0.09 lbs	2.48 lbs	0.27 lbs	11.03
Potassium	2.02 lbs	1.71 lbs	6.49 lbs	5.49 lbs	84.61
Calcium	3.20 lbs	1.44 lbs	10.28 lbs	4.62 lbs	44.94
Magnesium	0.60 lbs	0.38 lbs	1.91 lbs	1.22 lbs	64.05
Sulfur	0.71 lbs	0.02 lbs	2.28 lbs	0.08 lbs	3.37
Copper	0.40 ozs	0.05 ozs	1.27 ozs	0.17 ozs	13.4
Zinc	0.54 ozs	0.26 ozs	1.72 ozs	0.82 ozs	47.8
Manganese	0.57 ozs	0.11 ozs	1.84 ozs	0.37 ozs	19.8
Iron	3.71 ozs	0.10 ozs	11.92 ozs	0.33 ozs	2.76
Boron	0.04 ozs	0.0014 ozs	0.13 ozs	0.0045 ozs	3.55
Organic Matter	196. lbs		628. lbs		

The above results reflect only the fraction smaller than 1/2 inch. If a substantial portion of this sample is larger than 1/2 inch, the above values should be adjusted accordingly if further screening is not intended. The coarse fractions will react much slower with the soil and not have significant impact upon soil nutrition over the short term.