

EXHIBIT A-8
ORANGE COUNTY WASTE CHARACTERIZATION STUDY - APRIL 2010
UNIVERSITY OF NORTH CAROLINA WASTE COMPOSITION

Material Components	Mean Composition	Standard Deviation	95% Confidence Limits	
			Lower	Upper
Paper				
Newspaper/Print	2.8%	1.1%	1.3%	4.4%
Glossy Magazines	2.2%	1.7%	<0.1%	4.6%
Recyclable Corrugated Cardboard	1.7%	1.8%	<0.1%	4.2%
Non-Recyclable Cardboard	<0.1%	0.4%	<0.1%	0.6%
Phone Books	<0.1%	0.8%	<0.1%	1.1%
Paperboard	2.1%	1.3%	0.3%	4.0%
Other Books	0.9%	0.6%	<0.1%	1.7%
White Ledger	1.0%	0.7%	<0.1%	1.9%
Mixed Office Paper	1.9%	2.5%	<0.1%	5.3%
Other Paper (includes hardback books)	23.2%	5.2%	16.0%	30.4%
Total Paper	35.9%	16.1%		
Plastics				
All Plastic Bottles	2.0%	1.8%	<0.1%	4.5%
Film	10.4%	3.3%	5.8%	15.0%
All Cups & Tubs	2.1%	2.9%	<0.1%	6.1%
All Other Plastic (includes styrofoam)	5.8%	3.3%	1.2%	10.4%
Total Plastics	20.2%	11.3%		
Organics				
Food Waste	32.4%	13.7%	13.4%	51.4%
Textiles/Leather	2.3%	6.1%	<0.1%	10.7%
Diapers	<0.1%	3.7%	<0.1%	5.1%
Other Organics (includes rubber)	0.5%	3.6%	<0.1%	5.4%
Total Organics	35.1%	27.1%		
Ferrous Metal				
Food Containers/Bi-Metal	0.5%	0.9%	<0.1%	1.8%
Aerosols	<0.1%	0.7%	<0.1%	1.0%
Other Ferrous	1.0%	2.5%	<0.1%	4.4%
Total Ferrous Metal	1.6%	4.0%		
Non Ferrous Metal				
Aluminum Cans	0.6%	0.7%	<0.1%	1.6%
Aluminum Foil	0.2%	0.7%	<0.1%	1.2%
Other Non-Ferrous	<0.1%	0.8%	<0.1%	1.1%
Total Non Ferrous Metal	0.8%	2.2%		
Glass				
All Bottles & Jars	1.0%	3.6%	<0.1%	6.0%
Other Glass	1.4%	0.4%	0.8%	2.0%
Total Glass	2.3%	4.0%		
Wood				
Pallets	<0.1%	<0.1%	<0.1%	<0.1%
Lumber	0.2%	5.2%	<0.1%	7.4%
Painted/Treated	<0.1%	5.5%	<0.1%	7.6%
Stumps/Heavy Sections	<0.1%	<0.1%	<0.1%	<0.1%
Total Wood	0.2%	10.7%		
Inert				
Brick, concrete, dirt, asphalt, etc.	1.0%	3.1%	<0.1%	5.4%
Yard Waste				
(includes grass, leaves, small branches)	0.4%	3.9%	<0.1%	5.9%
Special Waste				
Lead-Acid Batteries	<0.1%	<0.1%	<0.1%	<0.1%
Dry Cell Batteries	<0.1%	<0.1%	<0.1%	0.2%
Oil Filters	<0.1%	<0.1%	<0.1%	<0.1%
Other Hazardous Waste	<0.1%	<0.1%	<0.1%	<0.1%
Infectious Waste	<0.1%	1.1%	<0.1%	1.6%
Reusable Waste	1.5%	<0.1%	<0.1%	<0.1%
Total Special Waste	1.5%	1.2%		
Brown Goods				
Electronic Goods	0.8%	1.5%	0.8%	2.9%
TOTALS	100.0%			

Notes: 1. Composition based on 2 samples.