Attachment 2: Staff Diversion Tonnage Deductions

Staff has identified in the Certification (see strikeouts) those tonnage claims that are not being allowed. These deductions are for crate reuse activities. This tonnage is not being allowed as the activity has always occurred, and the request did not demonstrate a net reduction in waste.

As a result of the deductions staff has also revised the diversion rates in the Certification that were submitted by the jurisdiction.

State of California Confidential

Sec. 1-3

STATE OF CALIFORNIA

CALIFORNIA INTEGRATED WASTE MANAGEMENT BOARD

Base Year Modification Request Certification

Part 1: Generation Study - No Extrapolation Diversion Data

To request a substitution for a previously approved base-year used in calculating the diversion rate for your jurisdiction, please complete and sign this form and return it to your Office of Local Assistance (OLA) representative at the address below, along with any additional information requested by OLA staff. When all documentation has been received, your OLA representative will work with you to prepare for your appearance before the Board. If you have any questions about this process, please call (916) 341-6199 to be connected to your OLA representative.

Mail completed documents to:

California Integrated Waste Management Board
Office of Local Assistance
1001 I Street, 9th Floor
PO Box 4025
Sacramento, CA 95812-4025

General Instructions:

Please select the **ONE** choice below that best explains your request to the Board.

☐ 1. Use a recent generation-based study to calculate our current reporting-year generation amount, but not officially change our existing Board-approved base year.

☑ 2. Use a recent generation-based study to officially change our existing Board-approved base year to a new base year.

The cells on these sheets are protected except for the ones that need information. If you have problems using these sheets, please contact your Office of Local Assistance representative.

Section I: Jurisdiction Information and Certification

All respondents must complete this section.

I certify under penalty of perjury that the information in this document is true and correct to the best of my knowledge, and that I am authorized to make this certification on behalf of:

Jurisdiction Name: City of Antioch		County: Contra Costa	
Authorized Signature		Title: Public Works Director/City Engineer	
Type/Print Name of Person Signing: Joseph G. Brandt, P.E.		Date: 3/30/2001	Phone ( ): (925) 779-7060
Person Completing This Form (please print or type): Julie Haas-Wajdowicz		Title: Adminstrative Analyst	
Affiliation: City of Antioch			
Mailing Address: P.O. Box 5007	City: Antioch	State: CA	ZIP Code: 94531-5007
E-mail address: jhaaswajdowicz@ci.antioch.ca.us			

Section II: Information for New Generation-Based Study for Existing or New Base Year

Attach additional sheets if necessary— reference each response to the appropriate cell number (e.g., 4).

Note: New base years must be representative of a jurisdiction's disposal and diversion.

1. Current Board-approved base-year:	2. Proposed new generation-based study year:
1990 (55,040)	**1999 (~~126,273~~)** 124,295

3. Explain how the proposed generation study year is representative of average annual jurisdiction disposal and diversion:

In 1999, there no significant waste generating events in Antioch.

4. Enter your diversion rates below.

Diversion rate calculated using existing base year	**a. ~~ND~~ -19 %**	**Diversion rate calculated using new generation-based study**	**b. ~~38~~ 37 %**
For existing base year pounds/person/day based on generation	**4.9**	**For new generation based study pounds/person/day based on generation**	**8.2**
Residential generation 40 %	**Non-Residential Generation 60 %**	**Residential generation 40% %**	**Non-Residential generation 60% %**
Population existing gen.-based study	62K	**Population new generation-based study**	84,500

5. If there is an increase between 4a and 4b, please explain how the new diversion rate is consistent with your current diversion implementation efforts. If the proposed new generation tonnage results in an increase in your pounds/person/day, please explain how this is consistent with your current diversion implementation efforts and provide any examples, e.g. change in jurisdiction's demographics.

Since 1990, the City of Antioch has implemented curbside recycling for multi family and expanded residential service, a home composting program, School recycling and various outreach activities. Despite these new programs, the diversion rate was lower than the existing base year. This new base year is more acurrate in regards to disposal tonnage and the diversion reults of implemented programs.

The current per capital waste generation rate is consistent with the the typical range for communities in California which is between 7 and 9 pounds per person per day. This compiled with the increase in population and house and lot sizes over the past nine years could explain the increase. It is also thought that the 1990 base year missed recording some of Antioch's dipsoal tonnage which sould have driven the per capita rate up.

6. If the difference between the proposed diversion rates in 4a and 4b is greater than 5 percentage points, please explain the specific reasons for the difference. (For example: new/improved curbside diversion programs.)

Original base year was not working as we have curbside recycling programs, commercial recycling, residential and commercial reuse opportunities, home composting programs, school recycling and yet our diversion rate was often negative or lower that the base year.

7. Disposal Tonnage: (enter values)	31331	46997	78328
	Residential	Non-Residential	Total

Please select the **ONE** choice below that best explains your **disposal** data and complete the required tables.

☐ a. All tons claimed are from the Board's Disposal Reporting System (No explanation required. Go to Section 8.)

☐ b. All tons claimed are from a 100 percent audit of hauler and self-haul tonnage. (Please complete Reporting Year Tonnage Request and Modification Certification sheet found at http://www.ciwmb.ca.gov/lgcentral/forms/rytnmdrq.doc)

☑ c. Some Disposal Reporting System data were corrected. (Please complete Reporting Year Tonnage Modification Request and Certification sheet found at http://www.ciwmb.ca.gov/lgcentral/forms/rytnmdrq.doc)

8. In the table below, list the summarized diversion activities, and diversion data records that support your claim and are available for Board audit. (Note: The Board expects the jurisdictions to be able to provide all back-up documentation, if requested) Include type of record and location—for example, weight tickets from transfer stations. This section should capture all diversion tonnage (form will perform all addition calculations). If any diversion is from restricted wastes, [agricultural wastes,inert solids (e.g., concrete, asphalt, dirt, etc.), white goods, and scrap metal] please identify those programs/waste types and fill out section 10. Please mark as Attachment 8 all copies of survey forms.

*Please provide detailed non-Residential waste audit information in Section 9.

Diversion Activity Please use the Board's program types. The program type glossary is online at: http://www.ciwmb.ca.gov/lgcentral/parts/codes/reduce.htm	Actual tons (A)	Relative Percent to Total Generation (A/Total Generation)	Specific material type(s) (List operation w/multiple materials in one box)	Specific conversion factor used (if any) and Source	Type of record and location of record
Residential Activities:					
Source Reduction					
Backyard composting					
Grasscycling		0.0%			
Other Residential source reduction (list each program separately)					
1,786 - Garage Sales	625	0.5%	misc.	.35/sale	newspaper ads/City
11 Thrift Stores	3845	3.0%	misc.	425.7 tons/year	Locations/City
Enter program name		0.0%			
Enter program name		0.0%			
Enter program name		0.0%			
Subtotal Residential Source Reduction	**4470**	**3.5%**			
Recycling					
Curbside Recycling	3175	2.5%	Commingled	Actual	Hauler
Buyback centers	747	0.6%	CRV containers	Actual	DOC-DOR
Drop-off centers					

Diversion Activity Please use the Board's program types. The program type glossary is online at: http://www.ciwmb.ca.gov/lgcentral/pans/codes/reduce.htm	Actual tons (A)	Relative Percent to Total Generation (A/Total Generation)	Specific material type(s) (List operation w/multiple materials in one box)	Specific conversion factor used (if any) and Source	Type of record and location of record
Other Residential recycling (list each program separately)					
Enter program name					
Enter program name					
Enter program name					
Enter program name					
Enter program name					
Subtotal Residential Recycling	**3922**	**3.1%**			
Composting					
Green waste drop-off					
Curbside green waste					
Christmas Tree program	150	0.1%	Old X-mas trees	50lbs/tree	City
Other Residential composting (list each program separately)					
Enter program name					
Enter program name					
Enter program name					
Enter program name					
Enter program name					
Subtotal Residential Composting	**150**	**0.1%**			
Subtotal Residential Diversion	**8542**	**6.8%**			
Non-Residential Activities: Source Reduction	7125	5.7%			
Non-Residential Waste Audits*	~~9103~~	~~7.2%~~		See Section 9	
Other non-Residential source reduction (list each program separately)					
City Grasscycling	3234	2.6%	Grass Clippings	8.7 tons/acre	City
School Grasscycling	1527	1.2%	Grass Clippings	8.7 tons/acre	Schools
City In-house Source Reduction	8	0.0%	Paper, OCC, donations, plastics, pallets	Varies	City
Enter program name					
Enter program name					
Subtotal Non-Residential Source Reduction	~~13979~~ 11894	~~11.0%~~ 9.6%			

Diversion Activity Please use the Board's program types. The program type glossary is online at: http://www.ciwmb.ca.gov/lgcentral/paris/codes/reduce.htm	Actual tons (A)	Relative Percent to Total Generation (A/Total Generation)	Specific material type(s) (List operation w/multiple materials in one box)	Specific conversion factor used (if any) and Source	Type of record and location of record
Recycling					
Non-Residential Waste Audits*	8767	6.9%		See Section 9	
Other non-Residential recycling (list each program separately)					
Material Handlers	1828	1.4%	cardboard, pallets, wood, aluminum, paper	Actual	Merchant
Commercial Collection	169	0.1%	Commingled Collection	Actual	Hauler
City Donations	17	0.0%	Appliances	173.9/lbs Appliance	City
Subtotal Non-Residential Recycling	**10781**	**8.5%**			
Composting					
Non-Residential Waste Audits*	152	0.1%		See Section 9	
Other non-Residential composting (list each program separately)					
City On-site mulching	7	0.0%	Greenwaste	46.69lbs/cy	City
Enter program name					
Enter program name					
Enter program name					
Enter program name					
Subtotal Non-Residential Composting	**159**	**0.1%**			
Subtotal Non-Residential Diversion	**24812**	**19.6%**			
Residential/Non- Residential Diversion Activities					
ADC	430	0.3%	Greenwaste & inerts	Actual	DRS
Sludge					
Scrap metal	29	0.0%	City Scrap Metal	Actual	Public Works
Construction and demolition	14132	11.2%	Concrete	Actual	Merchant
Landfill salvage					
Subtotal Residential/Non-Residential diversion	**14591**	**11.6%**			
Total Diversion Tons	45967 ~~47945~~	37.0% ~~38.0%~~			
Total Disposal Tons from Sec.7	**78328**	63.0% ~~62.0%~~			
Total Generation Tons (Div+Dis)	~~126273~~ 124295				

9. Specific Non-Residential Sector Waste Audits-Top 10 Non-Residential Generators

Please complete this table for the top 10 non-residential generators that were surveyed. List each non-residential generator separately from largest to smallest, based on total diversion tons. Audit reference number ties to your audit sheets.
(Form will perform all addition calculations).
Please provide an attachment 9 which includes all of the generators surveyed. Include for each generator (use type of generator in lieu of specific business name) diversion activity and material type and associated tonnage for each diversion activity/material type. Include copies of survey form(s) used.

Type of Non-residential Generator	Audit Reference Number	Specific/Major Diversion Activities include material type (e.g. paper recycling, grasscycling). (List activities on one line)	Source Reduction Tons	Recycling Tons	Composting Tons	Total Diversion Tons	Percent of Total Generation (Total Diversion Tons/Total Generation in Section 8)	Survey Method Phone (P) Mail (M) On-site (O) Other ___
(1) Retail Warehouse	SV5/9/00-4	Rendering, ~~Crate reuse~~, OCC recycled, Box reuse, Salvaged goods, Bag reuse, Pallet reuse, Food Donations, baling string reuse.	1713 ~~1747~~	759		2472 ~~2476~~	2.0%	O
(2) Grocery	MN771000	OCC & Plastic recycling. Food donations	1567	798		2365	1.9%	P
(3) Super Market -large grocery store	SV5/11/00-6	Produce compost, OCC recycling, Pallet reuse, ~~crate reuse~~, rendering, donated food, film plastic recycling, waxed cardboard recycling.	317 ~~533~~	1267	121	1705 ~~1921~~	1.4% ~~1.5%~~	O
(4) Golf course	MN531508	Grasscycling	1248			1248	1.0%	P
(5) Grocery	MN771005	OCC & Plastic recycling. Food donations	783	403		1186	0.9%	P
(6) Storage	MN850600	paper recycling.		900		900	0.7%	P
(7) Tire Store	MN30950	Tire recycling		844		844	0.7%	P
(8) Manufacturing	MN1001357	OCC recycling, Pallet reuse	24	480		504	0.4%	P
(9) Super Market - large grocery store.	SV5/9/00-3	OCC recycling, Pallet reuse, ~~crate reuse~~, rendering, film plastic recycling.	167 ~~366~~	330		497 ~~696~~	0.4% ~~0.6%~~	O
(10) Tire Store	MN36775	Tire recycling		468		468	0.4%	P
Totals			~~6238~~ 5819	**6249**	**121**	~~12608~~ 12189	~~10.0%~~ 9.8%	P

* Edits on this table reflect the staff's deductions for the crate reuse diversion activity. The City did not adequately demonstrate there was a net reduction in waste, as this is an activity that has always occurred.

Summarize the non-residential diversion activities quantification methodology and applicable conversion factors.

Cardboard Recycling: Businesses separate, bale, and backhaul their used cardboard. Each business had different size bales.
Business 1: (2,000lbs/bale) and therefore recycled 728 tons; Business 2: 1,100 pounds per 3 yd bale the business diverted 796.4 tons; Business 3: (2,000lbs/bale) and therefore recycled 1,092 tons; Business 5: (1,100 lbs/ 3 c.y. bale) and therefore they recycled 398 tons; Business 8: (1,100 lbs/3 c.y. bale) and therefore they recycled 480 tons; Business 9: (400 lbs/1 c.y. bale) and therefore they recycled 182.5 tons

Cardboard Reuse: Business 1: Another 63.4 tons of old carboard boxes are reused at the counter instead of grocery bags. Each cardboard box weighing approx. 2.2lbs each. (Approximately 150 boxes/day are reused). Business 8: This business reuses old cardboard boxes and determined that at 2 lbs. a box they diverted 2.3 tons.

Bag Reuse: The business estimated that they reused 1 ton of paper bags at the counter in 1999.

Pallet Reuse: The way all pallets were counted in this study was by taking the average number of pallets reused per business day (about 3-10 pallets) and then expanded that through out the year. At 40lbs or 75 lbs a pallet for reuse. Pallets were counted one time per pallet. Additionally, Business 9: At 20 lbs, 40lbs and 75 lbs a pallet the business reused 165.1 tons of wood, plastic, and Chep pallets.

Plastic Drum/Jugs Recycling: Business 2: recycles old 55 gallon plastic drums that weigh 15 lbs each resulting in 1.4 tons of diversion. Business 5: The business recycles plastic 33 gallon jugs and at 4.8 lbs each the business estimated that they diverted 5 tons.

Food Donations: Business 1 estimated that they donated 10.8 tons of baked goods to the Food Bank. Business 2: The City determined that 1,556.7 tons of Food Waste waste diverted by having the merchant estimate how many 200 lb box loads of food were donated. Business 3: 105.2 tons of baked goods and food was donated to local Food Bank by estimating the each box of baked goods weighs 20 lbs and each bag of food goods weigh 40lbs. Business 5: The business determined that they donated 783 tons of food to the local food bank by estimating that every cartfull weighs 50lbs.

Produce Compost: Business 3: At 463 lbs. a cubic yard the business estimated they composted 121 tons of excess produce.

Rendering: Actual weight receipts from rendering service.

Paper Recycling: Business 6: Determined that at 30 lbs a box they recycled 900 tons of paper.

Grasscycling: The amount of grassclippings estimated to have been diverted by grasscycling was quantified by multiplying the acreage of the golf course by 8.7 tons per acre per year.

Tire Recycling: Business 7: At 60 lbs. per tire this business determined they retreaded 844 tons of used tires. Business 10: Business determined that they retreaded 468 tons of tires based on 20 pounds per tire.

Salvaged Goods: Business 1: Weights based upon business using actual product weights. Business separates returned items for salvaging and repair. Business 3: The business estimated that at 30 lbs per box of goods they salvaged 39 tons. Business 6: Estimated that at 30 lbs per box of goods they salvaged 31.2 tons.

Magazines/ Greeting Card Backhaul/Recycling: This supermarket backhauls old magazines for recycling and determined that at 100 lbs. per box they recycled 39 tons. In addition they recycled .05 tons old greeting cards by estimating that each boxfull weighs 30lbs.

* Edits on this table reflect the staff's deductions for the crate reuse diversion activity. The City did not adequately demonstrate there was a net reduction in waste, as this is an activity that has always occurred.

Reusable Crates: Business 1: Now that bread (@ 1.5 lbs per rack) and milk (@ 1.1 lb per crate) is delivered in durable/reusable trays the business estimated that they reuse 3.53 tons of this material in 1999. Business 3: Now that bread (@ 5lbs), egg (@ 4lbs), soda (@ 1lb) and milk (@ 5lbs) is delivered in durable/reusable crates the business estimated that they reuse 215.8 tons of this material in 1999. Business 9: Now that bread (@ 5 lbs), soda (@ 2 lb), and milk (@ 4lbs) is delivered in durable/reusable crates the business estimated that they reuse 198.9 tons of this material in 1999. Note: Crate reuse Tonnage is being deducted.

Film Plastic Recycling: Business 3: This Supermarket determined that they recycled 10.2 tons of film plastic in 1999 by estimating each 55 gallon drum full of plastics weighed 15lbs. Business 6: This supermarket estimated that they recycled 39.4 tons of film plastic by determining every bagfull of plastic weighs 24 lbs.

Baling String: Business 1 determined that they reused .006 tons of baling string by estimating each box weighs 5lbs.

Waxed Cardboard Recycling: At 1 lb. a box the business estimated that they recycled 27.3 tons of waxed old cardboard. The business separates, bales and backhauls their used cardboard .

* Edits on this table reflect the staff's deductions for the crate reuse diversion activity. The City did not adequately demonstrate there was a net reduction in waste, as this is an activity that has always occurred.

* Edits on this table reflect the staff's deductions for the crate reuse diversion activity. The City did not adequately demonstrate there was a net reduction in waste, as this is an activity that has always occurred.

10. For each restricted waste type [i.e., agricultural waste, inert solids, (e.g. concreter, asphalt, dirt, etc.) scrap metals and white goods (PRC Section 41781.2)] and associated program, please provide the following

a. If the diversion program started on or after January 1, 1990, complete the following table.
(Note: program name refers to one specific diversion program for that waste type; (e.g., diversion conducted by City Public Waste Dept).

Restricted Waste Type	Specific Program name	Year started	Tonnage
Inert Solids	FTG Construction debris recycling permit/education	1998	3527
Scrap Metal	Public works recycles water meters, copper, & brass	1996+/-	29
White Goods	City appliance recycling (Public Works)	1996+/-	17
Inert Solids	C&D debris diversion education program	1994	7500
Inert Solids	Public Works Dept.	1996+/-	3105
Pull Down for Waste Types			

b. If the diversion program started before January 1, 1990, on a separate sheet, marked attachment 10b, provide the following documentation: (Note: If documentation for a waste type and program has already been approved by the Board, you do not have to provide an attachment 10b for that waste type and program.
Instead please provide date of Board approval of preciously submitted information. _____ (Date)
If documentation is not available, go to 10d.

- How the diversion was the result of a local action taken by the jurisdiction, which specifically resulted in the diversion [PRC Sec. 41781.2 (c) (1)].
- That the amount of that waste type diverted from the jurisdiction in 1990 was less than or equal to the amount of that waste type disposed at a permitted disposal facility by the jurisdiction in any year before 1990. (Note: this criterion is applicable to the entire jurisdiction, not to individual programs [PRC Sec. 41781.2 (c) (2)]).
- The jurisdiction is implementing, and will continue to implement, the diversion programs in its Source Reduction and Recycling Element.

c. If the diversion program started before January 1, 1990, and the documentation requested in 10b is available (but not yet approved by the Board), complete the table below for each program claimed:

Restricted Waste Type	Specific Program Name	New base year or reporting year diversion tonnage
Pull Down for Waste Types		
Pull Down for Waste Types		
Pull Down for Waste Types		
Pull Down for Waste Types		
Pull Down for Waste Types		

d. If the diversion program started before January 1, 1990, and the documentation requested in 10b is not available, please complete the table below for each program claimed. (***Note*** *: Only the difference between the new base year/reporting year and 1990 can be counted in the diversion rate calculation.)*

Restricted Waste Type	Specific Program name	New base year or reporting year tonnage	1990 diversion tonnage	Difference
Pull Down for Waste Types				
Pull Down for Waste Types				
Pull Down for Waste Types				
Pull Down for Waste Types				
Pull Down for Waste Types				
Pull Down for Waste Types				

Attachment 9

Phone Surveys

Ref. No.	Type of Business	Matl. Type	Qty.	Diversion Activity
MN531508	Golf Course	Grasscycling	1,248	Source Reduction
MN30950	Tire Store	Tires	844	recycled
MN1001967	Storage	Donated Goods	17	reused
MN100846	Moving/Storage	Cardboard	51	recycled
MN36775	Tire Store	Tires	468	recycled
MN43835	Flower Shop	Paper	2	recycled
		Plastic	4	reused
MN43857	Moving/Storage	Donated Goods	9	reused
MN1001561	Moving/Storage	Cardboard	31	recycled
MN86103	Pallets	Wood	438	recycled
MN94710	Tire Store	Tires	78	recycled
MN423600	Print Shop	Cardboard	1	reused
MN1000668	Office	Paper	0.1	recycled
		Cardboard	0.3	recycled
MN850600	Storage	Paper	900	recycled
MN110140	Manufacturing	Paper	0.03	recycled
		Toner Cartridges	0.003	recycled
		Plastic	2	reused
MN112700	Bowling Alley	Plastic	0.12	reused-donated
MN922930	Office	Paper	0.03	reused
		Toner Cartridges	0.0125	recycled
MN124542	Medical Office	Cardboard	0.0192	recycled
		Plastic	0.003	reused
MN3520	Office	Paper	0.88	recycled
		Toner Cartridges	0.1125	recycled
MN20300	Auto Dealer	Tires	0.72	recycled
MN36718	Plumbing	Cardboard	0.132	recycled
		Toner Cartridges	0.0075	recycled
MN42520	Clothing Manufacturer	Cardboard	13	recycled
		Wood	3.6	reused
		Textiles	6.3	reused
		Plastic	24	recycled
MN100113	Grocery	Cardboard	257	recycled
		Toner Cartridges	0.0075	recycled
		Wood	20.8	reused
		Donated Goods	0.6	Source Reduction
MN43872	Plumbing	Paper	0.03	recycled
		Cardboard	0.66	recycled
MN493500	Manufacturing	Cardboard	4.29	recycled
		Plastic	0.07	recycled
MN88700	Craft Supply	Cardboard	0.66	reused
		Donated Goods	0.09	Source Reduction
MN1001459	Office	Paper	0.03	recycled
		Toner Cartridges	0.01	recycled
MN238800	Dairy Products	Paper	0.03	recycled
		~~Plastic~~	~~1,500~~	~~reused~~ AB
		Food	0.35	Source Reduction
MN179892	Health Club	Textiles	178	reused
		Plastic	3.3	reused-restrung
MN183515	Flower Shop	Paper	0.08	recycled
		Plastic	10.45	reused
MN194050	Manufacturing	Wood	12	reused

Attachment 9

MN283150	Tires	Tires	36.4	recycled
MN288340	Grocery	Cardboard	286	recycled
		Food	0.6	Source Reduction
MN852620	Office	Paper	0.03	recycled
		Cardboard	0.09	reused
		Toner Cartridges	0.0125	recycled
		Furniture	0.39	reused-donated
MN807800	Medical Office	Cardboard	0.132	reused
		Toner Cartridges	0.0125	recycled
MN779100	Automotive	Tires	70.2	recycled
MN771000	Grocery	Cardboard	796.4	recycled
		Plastic	1.4	recycled
		Food	1,556.7	Source Reduction
MN771005	Grocery	Cardboard	398	recycled
		Plastic	5	recycled
		Food	783	Source Reduction
MN747410	Manufacturing	Paper	0.24	reused
		Cardboard	14.61	recycled
MN844200	Drug Store	Cardboard	28.6	recycled
		Wood	10.4	reused
		Donated Goods	0.3	reused
MN695408	Drug Store	Cardboard	29	recycled
MN733100	Motel	Paper	0.36	recycled
		Toner Cartridges	0.44	recycled
		Furniture	7	reused-donated
MN549415	Insurance	Paper	0.16	recycled
		Cardboard	0.07	reused
MN709699	Automotive	Paper	0.03	recycled
		Cardboard	0.0396	recycled
		Toner Cartridges	0.0025	recycled
		Tires	1.56	recycled
MN1001851	Automotive	Cardboard	0.07	reused
MN521600	Clothing	Plastic	0.1	reused
MN569100	Crafts	Cardboard	104	recycled
		Plastic	7.8	reused
MN567015	Retail	Plastic	5.6	Source Reduction
		Donated Goods	0.9	reused
		Glass	2.00	recycled
MN564012	Office	Paper	0.03	recycled
		Toner Cartridges	0.0025	recycled
MN532050	Drug Store	Cardboard	199	recycled
		Donated Goods	0.15	Source Reduction
MN1000596	Drug Store	Cardboard	199.1	recycled
		Wood	10.4	reused
		Donated Goods	0.15	recycled
MN525200	Distribution	Cardboard	6.6	recycled
MN503200	Automotive	Cardboard	7.8	recycled
MN512150	Clothing	Donated Goods	0.0118	reused
MN486700	Paint	Donated Goods	0.75	Source Reduction
MN485700	Dry Cleaning	Donated Goods	0.003	reused
MN464510	Automotive	Plastic	4	reused
MN1001357	Manufacturing	Cardboard	480	recycled
		Wood	24	reused
MN1002017	Office	Paper	0.55	recycled
		Toner Cartridges	0.25	recycled
MN1001201	Concrete	C and D	44	reused
MN1001143	Electrical	Toner Cartridges	0.0037	recycled
		Wood	1.2	reused

Attachment 9

MN362525	Landscaping	C and D	3.8	reused
MN362400	Gas Station	Tires	2.4	recycled
MN362506	Dry Cleaning	Cardboard	0.13	recycled
		Donated Goods	0.05	reused
MN335500	Manufacturing	Cardboard	0.13	recycled
		Toner Cartridges	0.00625	recycled
		Wood	2.4	reused
MN351200	Construction	Toner Cartridges	0.00125	recycled
MN323900	Automotive	Cardboard	83.3	recycled
		Tires	15	recycled
MN1001427	Office	Paper	0.09	recycled
		Cardboard	0.066	recycled
		Toner Cartridges	0.255	recycled
		Furniture	0.37	reused
MN292505	Manufacturing	Toner Cartridges	0.06	recycled
MN283350	Real Estate	Toner Cartridges	0.00625	recycled
MN1001302	Finance	Paper	0.015	recycled
		Cardboard	0.132	recycled
		Toner Cartridges	0.00375	recycled
MN203708	Manufacturing	Cardboard	6.6	recycled
		Wood	4.8	Source Reduction
MN36720	Retail	Cardboard	2.64	reused
		Toner Cartridges	0.0375	recycled
MN84410	Bakery	Food	12.6	Source Reduction
MN951385	Bakery	Food	5.2	Source Reduction
MNSPAN	Construction	Wood	29	recycled
MN770450	Boat Supply	Cardboard	0.3	recycled
MNGSC	Manufacturing	Paper	0.65	recycled
		Cardboard	57.2	recycled
		Wood	312	Source Reduction
MN152593	Manufacturing	Paper	0.26	recycled
		Toner Cartridges	0.015	recycled
		Wood	39.5	recycled
MN1001341		Wood	104	recycled
MN810855	Storage	Donated Goods	24.5	reused
MN719254	Printing	Paper	0.03	recycled
		Cardboard	0.86	reused
		Toner Cartridges	0.015	recycled
		Plastic	0.003	reused
MN1001405	Accounting	Toner Cartridges	0.01	recycled
MN115510	Accounting	Paper	0.03	recycled
		Cardboard	0.01	reused
		Toner Cartridges	0.03	recycled
		Donated Goods	0.027	reused
MN570900	Accounting	Cardboard	0.0132	reused
		Toner Cartridges	0.03	recycled
		Donated Goods	0.28	Source Reduction
MN544110	Packaging	Cardboard	0.066	reused
		Plastic	0.39	reused
MN1000276	Packaging	Plastic	0.1	reused
MNCAR	Carpet	Paper	0.06	reused
		Textiles	1.18	reused
MN1002470	Flowers	Plastic	7.5	reused
MN807900	Flowers	Plastic	36.27	reused
MN1000122	Storage	Donated Goods	35	reused
MN1000279	Storage	Donated Goods	13.65	reused
MNSOS	Printing	Paper	0.09	recycled
		Cardboard	0.71	reused
MN100330	Accounting	Toner Cartridges	0.02	recycled
MN1001406	Accounting	Toner Cartridges	0.01	recycled
			12,059	

Data Spreadsheet with conversion factors II

Attachment 9

Business Site Visits

SV5/9/00-1	Bakery	Donated Baked Goods	5.4	Source Reduction
		Dough Reuse	34.8	reused
		Milk Jugs	0.17	reused
		~~Milk Crates~~	~~0.33~~	~~reused~~
		~~Bread Crates~~	~~9.8~~	~~reused~~
		Plastic Jugs	0.03	reused
SV5/9/00-2	Supermarket	Salvage Goods	0.05	Source Reduction
		Paper Bags Reuse	1.3	reused
		~~Milk Crate Backhaul~~	~~12.5~~	~~reused~~
		~~Bread Rack Backhaul~~	~~5~~	~~reused~~
		~~Soda Crate Backhaul~~	~~23~~	~~reused~~
		OCC Box Reuse	73	reused
		Bakery Waste Rendering	0.31	recycled-rendered
		Bone/Fat	13.3	recycled-rendered
		Chep Pallets	41.5	reused
		Computer Paper	0.58	recycled
		Grease/Oil	2.3	recycled
		Milk Jugs	0.18	recycled
		Newspaper	0.03	recycled
		OCC Boxes	210	recycled
		Pallets	1.8	recycled
		Phone Books	0.38	recycled
		Plastic Pallets	1.5	Source Reduction
		Produce Trims	31.2	Composting
		Stretch Film Wrap	2.8	recycled
		T-Shirt Bags	0.29	recycled
		Waxed OCC	10.3	recycled
SV5/9/00-3	Supermarket	OCC Backhauled	182.5	recycled
		Film Plastic	39.4	recycled
		~~Soda Crate Backhaul~~	~~57.2~~	~~reused~~
		Plastic Pallets	36.5	reused
		Pallets	87.6	reused
		Chep Pallets	41	reused
		Bone/Fat	35.1	recycled
		~~Soda Crate Backhaul~~	~~37.4~~	~~reused~~
		Grease/Oil	41.5	recycled
		~~Bread Rack Backhaul~~	~~34.3~~	~~reused~~
		~~Milk Crates~~	~~70~~	~~reused~~
		OCC Box Reuse	2.3	reused
		Salvage Goods	31.2	Source Reduction
SV5/9/00-4	Retail Warehouse	OCC	728	recycled
		Paper Bags Reuse	1	reused
		Donated Baked Goods	10.8	Source Reduction
		Bone/Fat	31.2	recycled
		OCC Reuse	63.4	reused
		Pallets Backhaul	1,404	reused
		Salvage goods	234	Source Reduction
		Bread Racks	2.9	reused
		Milk Crates	0.63	reused
		Baling String Reuse	0.006	reused
SV5/11/00-5	Retail Store	Salvage Clothing	6.5	Source Reduction
		Salvaged Furniture	65	reused
		Repaired Electronics	6.5	reused
		Reused Boxes	2.6	reused
		OCC Backhauled	65.2	recycled
		Flourescent Bulbs	1.5	recycled
		~~Soda Crates Backhauled~~	~~3.25~~	~~reused~~
		~~Milk Crates~~	~~2.9~~	~~reused~~
		~~Bread Racks Reused~~	~~2~~	~~reused~~
		Magazines	5.2	recycled
		Bread Returns	1.3	recycled
		Beverage Backhauled	5.2	recycled
		~~Packing Crates Reused~~	~~0.9~~	~~reused~~
SV5/11/00-6	Supermarket	Produce Composted	121	composted
		Waxed OCC	27.3	recycled

AB

AB

Attachment 9

		OCC Backhauled	1,092	recycled
		Pallets	124.8	reused
		Chep Pallets	48.4	reused
		Film Plastic	10.2	recycled
		~~Milk Crates Backhauled~~	~~136.5~~	~~reused~~
		~~Bread Crates Backhauled~~	~~29.3~~	~~reused~~
		~~Egg Crates Backhauled~~	~~45~~	~~reused~~
		Grease/Oil	20.7	recycled
		Salvaged Goods	39	Source Reduction
		Donated Baked Goods	100	Source Reduction
		Greeting Cards Backhaul	0.05	recycled
		~~Soda Crates Backhauled~~	~~5~~	~~reused~~
		Bone/Fat	78	recycled
		Donated Food	5.2	reused
		Magazines Backhauled	39	recycled
			5,744	

CB

Materials Handlers

GTPHONE-1	Recycler	Cardboard	600	recycled
GTPHONE-2	Recycler	Concrete	3,527	recycled
GTPHONE-3	Recycler	Pallets	630	recycled
		Wood	100.8	recycled
GTPHONE-4	Recycler	Aluminum	139	recycled
		Cardboard	58	recycled
GTPHONE-5	Recycler	Cardboard	12.74	recycled
		Roofing Materials	2.7	recycled
		Wood	282.85	recycled
GTPHONE-6	Recycler	Concrete	7,500	recycled
GTPHONE-7	Diaper Service	Diapers	0.16	Source Reduction
GTPHONE-8	Cemetary	Grasscycling	43.5	Source Reduction
		Floral Goods	0.037	reused
		Mulching	1.32	Source Reduction
GTPHONE-9	Cemetary	Grasscycling	174	Source Reduction
GTPHONE10	Document Destruction	Paper	3.6	recycled
			13,076	

Thrift Stores

MNPHONE-1	Resale		425.7	reused
MNPHONE-2	Resale		425.7	reused
MNPHONE-3	Resale		425.7	reused
MNPHONE-4	Resale		425.7	reused
MNPHONE-5	Resale		425.7	reused
MNPHONE-6	Resale		425.7	reused
MNPHONE-7	Resale		425.7	reused
MNPHONE-8	Resale		425.7	reused
MNPHONE-9	Resale		425.7	reused
MNPHONE10	Resale		11	reused
MNPHONE11	Resale		2.8	reused
			3,845	

Garage Sales

MNRESEARCH			625.1	reused
			625	

City Department Recycling

GTSURVEY-1		Toner Cartridges	0.004	recycled
GTSURVEY-2		Paper	4.32	Source Reduction
		Reused Boxes	0.30	reused
GTSURVEY-3		Paper	2.08	Source Reduction
		Toner Cartridges	0.02	recycled
		Box Reuse	0.02	reused
		Fax Machine Donation	0.010	reused
GTSURVEY-4		Paper	0.03	reused
		Toner Cartridges	0.003	recycled
		Cardboard Boxes	0.04	reused
GTSURVEY-5		Toner Cartridges	0.0075	recycled
GTSURVEY-6		Scrap Metal	5	recycled
GTSSURVEY-7		Concrete	3,105	recycled
		Christmas Trees	150	composted
		Paper	0.06	reused

Attachment 9

		Scrap Metal	23.75	recycled
		Grasscycling	2,084.5	Source Reduction
		Appliances	17.39	recycled
		Pallets	0.6	reused
		Mulching	4.7	Source Reduction
GTSURVEY-8		Grasscycling	1,148.4	Source Reduction
		Mulching	2.3	reused
		Plastic Buckets	0.009	reused
			0.05	reused
			6,549	
School District Recycling				
MNSURVEY-1		Grasscycling	1,527.3	Source Reduction
			1,527	
Department of Conservation				
GT DOC		CRV Aluminum	267.51	recycled
		CRV Glass	432.65	recycled
		CRV Plastic	46.97	recycled
			747	
Landfill Diversion				
GT ADC		ADC	430.13	ADC
			430	
Commercial Recycling				
GTHauler		Co-mingled Diversion	169.01	recycled
			169	
Residential Recycling				
GT Hauler		Co-mingled Diversion	3,175.09	recycled
			3,175	

Total Diversion	~~47,945.10~~	45,967
Total Disposal	78,328	
Total Generation	~~126,273~~	124,295
Diversion Rate	~~38%~~	37%

GB 4/23/01

ANTIOCH THRIFT STORE SUMMARY

NAME & LOCATION[1]	# DAYS /WK	# EMPLOYEES[2]	SQUARE FOOTAGE[3]	TONS/YR[4]
Goodwill, 2701 W. 10th, 925-779-9214 (in old grocery store, size of Walgreens)	7	6	23,000 E	425.7 A 319.2 EM 920 SF
Hospice of Contra Costa Thrift Store, 1945 Somersville, 925-777-0866	6	volunteers	unknown	425.7 A
Salvation Army, 20 W. 10th, 925-754-2946 (old grocery store, "huge")	6	3	23,000 E	425.7 A 159.6 EM 920 SF
Denise's Antiques, 603 W. 2nd, 925-756-7112	5	1	600	425.7 A 53.2 EM 24 SF
Red Geranium Antiques & Furniture, 514 W. 2nd, 925-778-2221("small")	5	2	unknown	425.7 A 106.4 EM
BJ's Upscale Consignment, 2928 Delta Fair, 925-754-4318 (7-11 size)	6	1	3,245 E	425.7 A 53.2 EM 129.8 SF
The Bottom Drawer, 2930 Delta Fair, 925-756-6926	6	1	1,340	425.7 A 53.2 EM 53.6 SF
Kids Stuff Go Round, 1524 A, 925-754-8242	5	1	2,100	425.7 A 53.2 EM 84 SF
Lil' Angels, 3710 Lone Tree Way, 925-757-3002	6	1	900	425.7 A 53.2 EM 36 SF
Books & Books, 925-778-4310	7	unknown	unknown	10.886
Stacy's Books & Things, 615, W. 2nd, 925-757-7141	7	1	unknown	53.2 EM 2.6 actual

[1] Sources: Pacific Bell Yellow Pages: Clothes-Used, Furniture Dealers-Used, Thrift Stores, etc.

[2] Some stores indicated that they had no employees, only the owner, or vendors. Owners were included in the employee total.

[3] E = estimated size from interviewee. Occasionally examples were given to assist in estimate, i.e. 7-11 store (minimart standard size +/- 3,245 sq.ft.), former grocery stores converted into thrift stores in Sacramento area +/- 23,000 sq.ft. Square footage figures from Phase 1 ESAs performed by MN.

[4] Tons per waste board measurements. A = average thrift store; EM = employee amount; SF = square footage amount.