Appendix F

Market Impact Assessment Models

Summary of the Structure of the Financial Model

A financial model was developed to input and summarize data and to perform certain calculations. The following is a brief summary of the financial model.

Module 1: Model Output Summary

- Summarizes changes in key tonnage, revenue, and job figures.

Module 2: Scenario Assumptions

- Percentage capacity at which each technology in each area is assumed to be operating (these assumptions can be changed with each model run).
- Assumed conversion technology tipping fee in each area (these assumptions can be changed with each model run).

Module 3: Tonnage Assumptions

- Establishes waste disposal baseline in each of two regions (2003).
- Estimates waste disposal projections, through 2010, before the effects of conversion technologies.

Module 4: Tonnage Availability Based Upon Comparative Tipping Fees

- Looks up refuse tonnage being disposed of at comparable or higher tipping fees than the assumed conversion technology tipping fee.
- Looks up green waste tonnage being processed at comparable or higher tipping fees than the assumed conversion technology tipping fee.
- References how much tonnage is required to operate the conversion technology facilities at the assumed capacities separately for refuse and green waste.
- Compares available tonnage to tonnage required by conversion technology to determine whether there is sufficient feedstock available if availability were based solely on cost.

Module 5: Refuse Tonnage and Tipping Fee Projections (2003–2010)

- Lists projected tonnage to be disposed, as well as the tipping fee anticipated to be charged.
- Adds all tonnage at or above each tipping fee level to calculate how many tons would be available for alternative processing options if waste flow decisions are based solely on price.

Module 6: Green Waste Tonnage and Tipping Fee Projections (2003–2010)

- Lists projected tonnage to be composted, mulched, or used for ADC by tipping fee anticipated to be charged.
- Adds all tonnage at or above each tipping fee level to calculate how many tons would be available for alternative processing options if waste flow decisions are based solely on price.

Module 7: Combined Refuse and Green Waste Tonnage and Tipping Fee Projections (2003–2010)

- Lists projected tonnage to be disposed of, composted, mulched, or used for ADC by tipping fee anticipated to be charged.
- Adds all tonnage at or above each tipping fee level to calculate how many tons would be available for alternative processing options if waste flow decisions are based solely on price.
- Determines percentage of available tonnage represented by refuse to assist in other calculations.

Module 8: Change in Revenue Due to Pre-Sorting Materials for Conversion Technologies

- Per ton revenues by material type, as determined from data in the *U.S. Recycling Economic Information Study* by R.W. Beck, July 2001; forecast for 2004 through 2010 based upon past CPI increases by region.
- Recycling tonnage by material type determined in Module 11 is multiplied by revenue per ton figures to determine conversion technologies effect on recycling revenue in each region.

Module 9: Jobs and Revenues Created From Additional Diversion From Pre-Sorting Materials for Conversion Technology

- Recycling jobs generated by 1,000 tons determined by material type, based upon data in the *U.S. Recycling Economic Information Study* by R.W. Beck, July 2001.
- Jobs per 1,000 tons are multiplied by tonnage diverted from disposal due to conversion technology preprocessing in order to determine recycling related jobs created through use of conversion technology in each area.

Module 10: Change in Tons Disposed Due to Tonnage Entering Conversion Technology Facility and Effect on Landfill Revenue and Jobs

- References tonnage assumed to be sent to conversion technology facilities.
- References residual tonnage sent to landfills due to pre-sorting and to residue left after conversion technology process.
- Determines net tonnage no longer directed to landfilling.
- Determines lost landfill revenue based on average tipping fees at disposal facilities.
- Determines lost landfill jobs based upon jobs per 1,000 annual tons landfilled, as determined by data from the California section of the *U.S. Recycling Economic Information Study* by R.W. Beck, July 2001.

Module 11: Calculation of Individual Material Diverted

- Projects growth in materials diverted based upon population-based expansion of existing diversion programs and diversion rates.

- Projects growth in materials diverted based upon new diversion programs to be implemented.
- Projects growth in materials diverted from pre-sorting at conversion technology facilities (from Module 17).

Module 12: Calculation of Individual Material Disposed

- Projects tonnage to be disposed based upon population growth.
- Projects changes in waste composition and tonnage disposed based upon new diversion programs to be implemented (i.e., subtracts newly diverted materials from disposal stream).

Module 13: Conversion Technology – Required Incoming Tonnage, Added Revenue, and Jobs

- Tonnage required to be sent to conversion technology facilities to meet post-sorting requirements is referenced from Module 17 and summarized.
- Additional jobs created by conversion technology are calculated.
- Additional revenue generated for conversion technology facilities is calculated.

Module 14: Conversion Technology Facility Configurations

- Full capacity facility configurations are listed by daily capacity.
- Annual capacity is calculated based upon operations continuously run 90 percent of the time (329 days per year).
- Facility capacity in tons, based upon variable capacity levels selected in Module 2.

Module 15: Additional Diversion From Pre-Sorting Materials For Conversion Technologies

- This module summarizes the additional diversion, by material type, gained through pre-sorting for conversion technologies, as determined in Module 17.

Module 16: Tons Disposed From Tonnage Entering Conversion Technology Facilities

- This module summarizes tons removed during the pre-sorting process but not diverted, and the residual tons left after the conversion technology process, as determined in Module 17.

Module 17: Material Processing at Acid Hydrolysis or Gasification Facility

- References selected facility capacities from Module 14.
- Determines required incoming tonnage to meet capacity.
- Determines additional diversion and disposal by material type based upon waste composition, as determined in Module 12.

Model Runs and Model Outputs: Changes in Tons, Jobs, and Revenues as a Result of Conversion Technology Facilities

For each scenario below, we have calculated the change in

- Tons disposed at landfills
- Tons recycled
- Tons of green waste sent for composting, mulching, or use as ADC
- Landfill revenue
- Recycling industry revenue (paper, plastic, glass, metal)
- Composting/mulching industry revenue
- Jobs at landfills
- Jobs in the recycling industry (paper, plastic, glass, metal)
- Jobs in the composting/mulching industry.

Diversion Credit Scenarios

Scenario 2. Conversion technology diversion credit for refuse

Scenario 2 (A and B) assumes that jurisdictions would leave all existing diversion programs in place and would redirect residential and/or commercial refuse from landfills to conversion technology facilities. Refuse collection operations would remain virtually unchanged; only the destination facility would change. The quantity of waste that was redirected would qualify for new diversion credit (similar to transformation) in order to help the jurisdiction achieve compliance with AB 939 diversion goals. This scenario is run under two conditions, with diversion credit provided for tonnage sent to conversion technology facilities, as outlined below.

(A) No cap on the diversion credit allowed.

Under Scenario 2-A, the quantity of incoming conversion technology tonnage is equal to the additional tonnage that needs to be diverted by cities with lower than 45 percent reported diversion rates in 2002 in order to reach 50 percent diversion. For example, a jurisdiction with 35 percent diversion would send 15 percent of the waste generated by the jurisdiction to conversion technology facilities. We assume that jurisdictions with diversion rates between 45 and 50 percent might receive a good faith effort designation, and would not use conversion technology. We also assume that jurisdictions with diversion rates above 50 percent would continue to use landfills.

Jurisdictions in the San Francisco Bay region would therefore send approximately 874,000 tons to conversion technology facilities. Based on assumed conversion technology facility configurations, the San Francisco Bay region would have more than enough conversion technology capacity for this tonnage. The model was run at the capacity needed to accept only this amount of tonnage in 2003, and the resulting increases in recycling due to preprocessing are shown in the model output for Scenario 2-A.

Jurisdictions in the Greater Los Angeles region would therefore attempt to send approximately 1,881,000 tons to conversion technology facilities in 2003. Based on the assumed conversion technology facility configurations, the Greater Los Angeles region would not have enough conversion technology capacity for this tonnage. The model was run at full capacity of 1,368,000 in 2003 instead, and the results are shown in the output for Scenario 2-A.

(B) With diversion credit only given for up to 10 percent of the jurisdiction's waste generation.

Under Scenario 2-B, the quantity of incoming conversion technology tonnage is equal to the additional tonnage to be diverted by cities, with lower than 45 percent reported diversion rates in 2002 in order to reach 50 percent diversion, but with no more than 10 percent of generation from any one city being accepted. For example, a jurisdiction with 35 percent diversion would send only 10 percent of the waste generated by the jurisdiction to conversion technology facilities, not the full 15 percent needed to reach 50 percent diversion.

Jurisdictions in the San Francisco Bay region would therefore send approximately 556,000 tons to conversion technology facilities. Based on the assumed conversion technology facility configurations, the San Francisco Bay region would have more than enough capacity for this tonnage. The model was run at the capacity needed to accept only this amount of tonnage in 2003.

Jurisdictions in the Greater Los Angeles region would therefore attempt to send approximately 987,000 tons to conversion technology facilities. Based on the assumed conversion technology facility configurations, the Greater Los Angeles region would have more than enough capacity for this tonnage. The model was run at the capacity needed to accept only this amount of tonnage in 2003. Results are shown in model output 2-B.

Under both Scenario 2-A and Scenario 2-B, impacts were evaluated as of 2003. After this point, facility capacities and the tonnage needed by each city to reach 50 percent will increase at differing rates.

Scenario Three. Existing residential programs are eliminated and all residential waste is sent to conversion technology facilities for full diversion credit

In Scenarios 3 and 4, we assume that diversion credit is given for conversion technology facilities without the requirement that all existing diversion programs remain intact.

This scenario assumes that the feedstock is the residential waste stream from jurisdictions that abandoned three stream collection systems (separate collection of refuse, recyclables, and green waste) and begin collecting mixed solid waste to send to conversion technology facilities. Jurisdictions could save money on collection costs by reducing the number of trucks and labor that are typical of a three-stream system. Collection costs vary considerably by location and local conditions.

In a low cost area, costs for a separate green waste program might be $2 per household per month, costs for a separate recycling collection program might be $1 per household per month, and overall residential rates might be $13 per household per month. In a higher cost area, costs for a separate green waste program might be $4 per household per month, costs for a separate recycling collection program might be $3 per household per month, and overall residential rates

might be $21 per household per month. Using those two examples, cost savings from the elimination of the recycling and green waste collection programs could range from 23 percent to 33 percent.

A typical breakdown of the residential waste stream from a three stream system with excellent diversion program participation is approximately 50 percent to 60 percent refuse, 25 percent to 30 percent source-separated green waste, and 15 percent to 20 percent single stream recyclables.

For modeling simplicity, we assumed 50 percent refuse, 30 percent green waste, and 20 percent recyclables as the composition of the waste stream in order to calculate impacts on recycling and organics markets.

Under this scenario, we assume conversion technology facilities are operating at capacity, as determined by the assumed facility configurations described previously.

Scenario Four. Residential refuse and green waste to conversion technology facilities, residential single stream recyclables collection left intact

In Scenarios 3 and 4, we assume that diversion credit is given for conversion technology facilities without the requirement that all existing diversion programs remain intact.

This scenario assumes that the feedstock is the residential waste stream from jurisdictions that abandoned separate green waste collection and instead collect refuse and green waste together to send to conversion technology facilities, with recyclables still being separately collected and processed at an MRF.

In a low cost area, costs for a separate green waste program might be $2 per household per month and overall residential rates might be $13 per household per month. In a higher cost area, costs for a separate green waste program might be $4 per household per month, and overall residential rates might be $21 per household per month. Using those two examples, cost savings from the elimination of green waste collection program could range from 15 percent to 19 percent.

The composition breakdown of the material sent to conversion technology facilities would therefore be 63 percent refuse and 37 percent green waste. Conversion technology facilities are assumed to run at capacity for the facility configurations defined previously.

Appendix F

Model Output Summary

1 - Effects if Feedstock All Drawn from Material Destined for Landfilling

I/R/C*	Resulting Effects On Landfills	Greater Los Angeles		San Francisco Bay	
	Tonnage	2003	2010	2003	2010
R	Decrease in Tons Disposed	1,291,575	2,028,519	1,313,268	2,068,524
R	Decrease in Green Waste Tons				
R	Increase in Tons Diverted	152,753	238,977	175,858	281,938

	Revenue	2003	2010	2003	2010
R	Landfills	$ (36,189,932)	$ (74,061,229)	$ (56,667,514)	$ (109,879,995)
R	Composting				
R	Recycling	$ 436,167,031	$ 873,691,646	$ 428,660,336	$ 924,672,794
R	CT	$ 54,714,280	$ 102,282,903	$ 55,856,920	$ 112,174,486
C	Total Revenue Effect	$ 454,691,379	$ 901,913,320	$ 427,849,742	$ 926,967,285

	Jobs	2003	2010	2003	2010
R	Lost to Landfills	(865)	(1,359)	(880)	(1,386)
R	Lost to Composting				
R	Gained from Additional Recycling	3,630	6,018	3,705	6,194
R	Gained from CT	1,094	1,721	1,117	1,763
C	Change in Jobs	3,859	6,380	3,942	6,571

* I/R/C = Input, Referenced or Calculated

Appendix F

Scenario Assumptions

I/R/C	Assumptions of Conversion Technology Capacity in Use				
I	Greater Los Angeles Area	100%	Acid Hydrolysis	100%	Gasification
I	San Francisco Bay Area	100%	Acid Hydrolysis	100%	Gasification

I/R/C	Assumed Conversion Technology Tipping Fee	
I	Conversion Technology Tip Fee Per Ton - LA	$ 40.00
I	Conversion Technology Tip Fee Per Ton - SF	$ 40.00

Appendix F

Tonnage Availability Based Upon Comparative Tipping Fees - Greater Los Angeles Area

Conversion Technology Tonnage Requirements Exclusively from Material Destined for Landfilling

I/R/C		2003	2004	2005	2006	2007	2008	2009	2010
I	Tipping Fee Growth Rate (1)	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%
R/C	CT Tip Fee Per Ton	$ 40.00	$ 41.00	$ 42.03	$ 43.08	$ 44.16	$ 45.26	$ 46.39	$ 47.55
C	CT Tip Fee (rounded to nearest	$ 40.00	$ 40.00	$ 40.00	$ 40.00	$ 40.00	$ 50.00	$ 50.00	$ 50.00
R	Tons Available To Be Sent To CT, based on price	5,763,453	9,037,650	9,588,265	9,752,177	9,919,881	5,242,993	5,287,034	5,721,562
R	Tons Required by CT, after sorting	1,151,500	1,151,500	1,316,000	1,316,000	1,645,000	1,645,000	1,645,000	1,809,500
C	% of Tons Usable	84%	84%	85%	85%	84%	84%	84%	84%
R	Total Tons Required to Fullfill Need, pre-sorting	1,367,857	1,364,123	1,547,839	1,547,839	1,967,345	1,967,345	1,967,345	2,151,060
C	Required Tons Available	1,367,857	1,364,123	1,547,839	1,547,839	1,967,345	1,967,345	1,967,345	2,151,060

(1) Estimated CPI growth for region based upon prior 10-year trend.

Appendix F

Tonnage Availability Based Upon Comparative Tipping Fees - San Francisco Bay Area

Conversion Technology Tonnage Requirements Exclusively from Material Destined for Landfilling

I/R/C		2003	2004	2005	2006	2007	2008	2009	2010
I	Tipping Fee Growth Rate (1)	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%
I/C	CT Tip Fee Per Ton	$ 40.00	$ 41.40	$ 42.85	$ 44.35	$ 45.90	$ 47.51	$ 49.17	$ 50.89
C	CT Tip Fee (rounded to nearest	$ 40.00	$ 40.00	$ 40.00	$ 40.00	$ 50.00	$ 50.00	$ 50.00	$ 50.00
R	Tons Available To Be Sent To CT, based on price	5,414,208	5,414,208	5,414,208	5,414,208	4,271,032	4,271,032	4,271,032	4,271,032
R	Tons Required by CT, after sorting	1,151,500	1,151,500	1,316,000	1,316,000	1,645,000	1,645,000	1,645,000	1,809,500
C	% of Tons Usable	82%	82%	83%	83%	82%	82%	82%	82%
R	Total Tons Required to Fullfill Need, pre-sorting	1,396,423	1,398,000	1,586,618	1,586,618	2,015,635	2,015,635	2,015,635	2,204,254
C	Required Tons Available	1,396,423	1,398,000	1,586,618	1,586,618	2,015,635	2,015,635	2,015,635	2,204,254

(1) Estimated CPI growth for region based upon prior 10-year trend.

Appendix F

Tipping Fee Projections (2003-2010)
Cumulative Total Tons Available At Each Tip Fee Level

I/R/C	Refuse Tonnage Available at Each Tipping Fee Level - Greater Los Angeles Area								
	Tip Fee Per Ton	**2003**	**2004**	**2005**	**2006**	**2007**	**2008**	**2009**	**2010**
C	**$0 to $10.00**	18,128,402	18,414,118	18,705,867	18,962,299	19,223,539	19,489,700	19,760,899	20,037,256
C	**$10.01 to 20.00**	18,128,402	18,414,118	18,705,867	18,962,299	19,223,539	19,489,700	19,760,899	20,037,256
C	**$20.01 to $30.00**	16,956,695	17,226,125	17,501,360	17,745,025	19,223,539	19,489,700	19,760,899	20,037,256
C	**$30.01 to $40.00**	5,763,453	9,037,650	9,588,265	9,752,177	9,919,881	13,984,010	14,192,304	14,447,961
C	**$40.01 to $50.00**	1,004,058	1,013,496	2,601,243	4,558,260	4,809,784	5,242,993	5,287,034	5,721,562
C	**$50.01 to $60.00**	376,234	379,770	383,340	386,560	389,807	863,926	871,183	2,712,346
C	**$60.01 to $70.00**	-	-	-	386,560	389,807	393,082	396,384	399,713
C	**$70.01 to $80.00**	-	-	-	-	-	-	-	-
C	**$80.01 to $90.00**	-	-	-	-	-	-	-	-

I/R/C	Refuse Tonnage Available at Each Tipping Fee Level - San Francisco Bay Area								
	Tip Fee Per Ton	**2003**	**2004**	**2005**	**2006**	**2007**	**2008**	**2009**	**2010**
C	**$0 to $10.00**	6,939,664	7,045,976	7,154,014	7,236,414	7,319,847	7,404,323	7,489,859	7,576,469
C	**$10.01 to 20.00**	6,939,664	7,045,976	7,154,014	7,236,414	7,319,847	7,404,323	7,489,859	7,576,469
C	**$20.01 to $30.00**	6,939,664	7,045,976	7,154,014	7,236,414	7,319,847	7,404,323	7,489,859	7,576,469
C	**$30.01 to $40.00**	5,414,208	6,730,942	6,834,255	6,913,041	6,992,820	7,073,601	7,155,400	7,238,230
C	**$40.01 to $50.00**	4,271,032	4,894,134	4,969,477	4,786,696	4,868,847	4,925,670	5,807,528	5,878,364
C	**$50.01 to $60.00**	1,811,541	1,992,945	2,695,022	2,537,328	2,569,701	2,602,500	4,681,093	5,013,664
C	**$60.01 to $70.00**	361,682	394,039	581,026	1,578,060	1,598,271	1,618,743	1,639,476	2,219,252
C	**$70.01 to $80.00**	-	72,500	36,794	331,386	335,562	339,790	344,072	1,532,401
C	**$80.01 to $90.00**	-	-	-	-	-	-	-	348,407

Appendix F

Tipping Fee Projections (2003-2010)
Tons At Each Tip Fee Level

I/R/C	Disposal Tipping Fees - Greater Los Angeles Area								
	Tip Fee Per Ton	**2003**	**2004**	**2005**	**2006**	**2007**	**2008**	**2009**	**2010**
I	**$0 to $10.00**	-	-	-	-	-	-	-	-
I	**$10.01 to 20.00**	1,171,707	1,187,993	1,204,507	1,217,274	-	-	-	-
I	**$20.01 to $30.00**	11,193,242	8,188,475	7,913,095	7,992,848	9,303,658	5,505,690	5,568,595	5,589,295
I	**$30.01 to $40.00**	4,759,395	8,024,154	6,987,022	5,193,917	5,110,097	8,741,017	8,905,270	8,726,399
I	**$40.01 to $50.00**	627,824	633,726	2,217,903	4,171,700	4,419,977	4,379,067	4,415,851	3,009,216
I	**$50.01 to $60.00**	376,234	379,770	383,340	-	-	470,844	474,799	2,312,633
I	**$60.01 to $70.00**	-	-	-	386,560	389,807	393,082	396,384	399,713
I	**$70.01 to $80.00**	-	-	-	-	-	-	-	-
I	**$80.01 to $90.00**	-	-	-	-	-	-	-	-
I	**Weighted Average Tip Fee Per Ton**	$ 28.02	$ 29.21	$ 30.39	$ 31.57	$ 32.62	$ 33.91	$ 35.21	$ 36.51

I/R/C	Disposal Tipping Fees - San Francisco Bay Area								
	Tip Fee Per Ton	**2003**	**2004**	**2005**	**2006**	**2007**	**2008**	**2009**	**2010**
I	**$0 to $10.00**	-	-	-	-	-	-	-	-
I	**$10.01 to 20.00**	-	-	-	-	-	-	-	-
I	**$20.01 to $30.00**	1,525,456	315,034	319,759	323,373	327,027	330,722	334,459	338,239
I	**$30.01 to $40.00**	1,143,176	1,836,808	1,864,778	2,126,345	2,123,973	2,147,931	1,347,872	1,359,866
I	**$40.01 to $50.00**	2,459,491	2,901,189	2,274,455	2,249,368	2,299,146	2,323,170	1,126,435	864,700
I	**$50.01 to $60.00**	1,449,859	1,598,906	2,113,997	959,268	971,430	983,757	3,041,617	2,794,412
I	**$60.01 to $70.00**	361,682	321,539	544,232	1,246,674	1,262,709	1,278,953	1,295,404	686,851
I	**$70.01 to $80.00**	-	72,500	36,794	331,386	335,562	339,790	344,072	1,183,994
I	**$80.01 to $90.00**	-	-	-	-	-	-	-	348,407
I	**Weighted Average Tip Fee Per Ton**	$ 43.15	$ 44.93	$ 46.04	$ 46.60	$ 48.17	$ 49.78	$ 51.43	$ 53.12

Appendix F

Change in Revenue Due to Pre-Sorting Materials For Conversion Technologies
Greater Los Angeles Area

Revenue Per Ton Factors*

I/R/C	Revenue Per Ton*	2003	2004	2005	2006	2007	2008	2009	2010
I	Paper	$ 483.84	$ 495.94	$ 508.34	$ 521.05	$ 534.08	$ 547.43	$ 561.12	$ 575.15
I	Plastics	$ 11,123.00	$ 11,401.08	$ 11,686.11	$ 11,978.26	$ 12,277.72	$ 12,584.66	$ 12,899.28	$ 13,221.76
I	Organics	$ 33.09	$ 33.92	$ 34.77	$ 35.64	$ 36.53	$ 37.44	$ 38.38	$ 39.34
I	Other	$ 296.00	$ 303.40	$ 310.99	$ 318.76	$ 326.73	$ 334.90	$ 343.27	$ 351.85

Total Change in Revenue - Greater Los Angeles Area

I/R/C	Acid Hydrolysis	2003	2004	2005	2006	2007	2008	2009	2010
R	Paper	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
R	Plastics	$ 401,640,407	$ 419,696,557	$ 430,189,081	$ 440,943,707	$ 753,274,955	$ 772,106,645	$ 791,409,526	$ 811,194,641
R	Organics	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
R	Other	$ 15,906,448	$ 15,765,271	$ 16,159,662	$ 16,563,407	$ 28,295,471	$ 29,003,010	$ 29,727,869	$ 30,470,914
C	Total	$ 417,546,855	$ 435,461,828	$ 446,348,743	$ 457,507,114	$ 781,570,426	$ 801,109,655	$ 821,137,395	$ 841,665,555

I/R/C	Gasification	2003	2004	2005	2006	2007	2008	2009	2010
R	Paper	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
R	Plastics	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
R	Organics	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
R	Other	$ 18,620,176	$ 18,410,615	$ 23,589,213	$ 24,178,584	$ 24,783,124	$ 25,402,835	$ 26,037,716	$ 32,026,091
C	Total	$ 18,620,176	$ 18,410,615	$ 23,589,213	$ 24,178,584	$ 24,783,124	$ 25,402,835	$ 26,037,716	$ 32,026,091

* Revenue per ton factors determined from data in Table F-1 of Appendix F of the "U.S. Recycling Economic Information Study" by R.W. Beck, Inc., July 2001, adjusted by an estimated CPI of 2.5% per year in the Greater Los Angeles area. Revenue means the sum of revenue earned by companies dealing in the commodity, such as manufacturers, mills, MRFs, etc.

Appendix F

Change in Revenue Due to Pre-Sorting Materials For Conversion Technologies
San Francisco Bay Area

Revenue Per Ton Factors*

I/R/C	Revenue Per Ton*	2003	2004	2005	2006	2007	2008	2009	2010
I	Paper	$ 483.84	$ 500.77	$ 518.30	$ 536.44	$ 555.22	$ 574.65	$ 594.76	$ 615.58
I	Plastics	$ 11,123.00	$ 11,512.31	$ 11,915.24	$ 12,332.27	$ 12,763.90	$ 13,210.64	$ 13,673.01	$ 14,151.57
I	Organics	$ 33.09	$ 34.25	$ 35.45	$ 36.69	$ 37.97	$ 39.30	$ 40.68	$ 42.10
I	Other	$ 296.00	$ 306.36	$ 317.08	$ 328.18	$ 339.67	$ 351.56	$ 363.86	$ 376.60

Total Change in Revenue - San Francisco Bay Area

I/R/C	Acid Hydrolysis	2003	2004	2005	2006	2007	2008	2009	2010
R	Paper	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
R	Plastics	$ 386,902,432	$ 410,425,364	$ 424,790,221	$ 439,657,758	$ 758,418,174	$ 784,963,018	$ 812,436,581	$ 840,872,138
R	Organics	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
R	Other	$ 19,191,456	$ 19,902,371	$ 20,598,785	$ 21,319,886	$ 36,777,090	$ 38,064,456	$ 39,396,214	$ 40,775,612
C	Total	$ 406,093,888	$ 430,327,735	$ 445,389,006	$ 460,977,644	$ 795,195,264	$ 823,027,474	$ 851,832,795	$ 881,647,750

I/R/C	Gasification	2003	2004	2005	2006	2007	2008	2009	2010
R	Paper	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
R	Plastics	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
R	Organics	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
R	Other	$ 22,566,448	$ 23,333,603	$ 30,187,918	$ 31,244,705	$ 32,338,622	$ 33,470,621	$ 34,641,655	$ 43,025,044
C	Total	$ 22,566,448	$ 23,333,603	$ 30,187,918	$ 31,244,705	$ 32,338,622	$ 33,470,621	$ 34,641,655	$ 43,025,044

* Revenue per ton factors determined from data in Table F-1 of Appendix F of the "U.S. Recycling Economic Information Study" by R.W. Beck, Inc., July 2001, adjusted by an estimated CPI of 3.5% per year in the San Francisco Bay area. Revenue means the sum of revenue earned by companies

Appendix F

Additional Diversion From Pre-Sorting Materials For Conversion Technologies

Additional Jobs Per Thousand Tons Processed Per Year:

I/R/C	Material Type	Jobs Per 1,000 Tons*
I	Paper	1.38
I	Plastics	77.10
I	Organics	0.21
I	Other	7.25

Total Change in Recycling Jobs - Greater Los Angeles Area

I/R/C	Acid Hydrolysis	2003	2004	2005	2006	2007	2008	2009	2010
R	Paper	-	-	-	-	-	-	-	-
R	Plastics	2,784	2,838	2,838	2,838	4,730	4,730	4,730	4,730
R	Organics	-	-	-	-	-	-	-	-
R	Other	390	377	377	377	628	628	628	628
C	Total	3,174	3,215	3,215	3,215	5,358	5,358	5,358	5,358

I/R/C	Gasification	2003	2004	2005	2006	2007	2008	2009	2010
R	Paper	-	-	-	-	-	-	-	-
R	Plastics	-	-	-	-	-	-	-	-
R	Organics	-	-	-	-	-	-	-	-
R	Other	456	440	550	550	550	550	550	660
C	Total	456	440	550	550	550	550	550	660

Total Change in Recycling Jobs - San Francisco Bay Area

I/R/C	Acid Hydrolysis	2003	2004	2005	2006	2007	2008	2009	2010
R	Paper	-	-	-	-	-	-	-	-
R	Plastics	2,682	2,749	2,749	2,749	4,581	4,581	4,581	4,581
R	Organics	-	-	-	-	-	-	-	-
R	Other	470	471	471	471	785	785	785	785
C	Total	3,152	3,220	3,220	3,220	5,366	5,366	5,366	5,366

I/R/C	Gasification	2003	2004	2005	2006	2007	2008	2009	2010
R	Paper	-	-	-	-	-	-	-	-
R	Plastics	-	-	-	-	-	-	-	-
R	Organics	-	-	-	-	-	-	-	-
R	Other	553	552	690	690	690	690	690	828
C	Total	553	552	690	690	690	690	690	828

* Jobs per 1,000 tons factors determined from data in Table F-1 of Appendix F of the "U.S. Recycling Economic Information Study" by R.W. Beck, Inc., July 2001.

Appendix F

Change in Tons Disposed Due to Tonnage Entering Conversion Technology Facilities and Effect on Revenue and Jobs

Greater Los Angeles Area

Net Change in Disposal - Tonnage into CT Facility net Contamination Removed

I/R/C	Technology	2003	2004	2005	2006	2007	2008	2009	2010
R	Tons To CT	1,367,857	1,364,123	1,547,839	1,547,839	1,967,345	1,967,345	1,967,345	2,151,060
R	Residual From CT	76,282	75,614	80,840	80,840	117,315	117,315	117,315	122,541
C	Difference	1,291,575	1,288,509	1,466,999	1,466,999	1,850,030	1,850,030	1,850,030	2,028,519

Landfill Revenue Lost

R	Average Tipping Fee Per Ton	$ 28.02	$ 29.21	$ 30.39	$ 31.57	$ 32.62	$ 33.91	$ 35.21	$ 36.51
C	Revenue	$ 36,189,932	$ 37,637,348	$ 44,582,100	$ 46,313,158	$ 60,347,979	$ 62,734,517	$ 65,139,556	$ 74,061,229

Landfill Jobs Lost

I	Jobs Per 1,000 Tons	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67
C	Jobs	865	863	983	983	1,240	1,240	1,240	1,359

San Francisco Bay Area

Net Change in Disposal - Tonnage into CT Facility net Contamination Removed

I/R/C	Technology	2003	2004	2005	2006	2007	2008	2009	2010
R	Tons To CT	1,396,423	1,398,000	1,586,618	1,586,618	2,015,635	2,015,635	2,015,635	2,204,254
R	Residual From CT	83,155	84,050	90,580	90,580	129,200	129,200	129,200	135,730
C	Difference	1,313,268	1,313,950	1,496,038	1,496,038	1,886,435	1,886,435	1,886,435	2,068,524

Landfill Revenue Lost

R	Average Tipping Fee Per Ton	$ 43.15	$ 44.93	$ 46.04	$ 46.60	$ 48.17	$ 49.78	$ 51.43	$ 53.12
C	Revenue	$ 56,667,514	$ 59,035,774	$ 68,877,590	$ 69,715,371	$ 90,869,574	$ 93,906,734	$ 97,019,352	$ 109,879,995

Landfill Jobs Lost

I	Jobs Per 1,000 Tons	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67
C	Jobs	880	880	1,002	1,002	1,264	1,264	1,264	1,386

Appendix F

Calculation of Individual Materials Diverted
Greater Los Angeles Area

I/R/C		2002	2003	2004	2005	2006	2007	2008	2009	2010
	Population Growth Rate		1.46%	1.46%	1.46%	1.31%	1.31%	1.31%	1.31%	1.31%
	Total of Materials Listed Below									
C	Tonnage		7,999,129	8,125,756	8,255,498	8,382,215	8,512,181	8,645,546	8,782,472	8,923,130
C	Plus: Increases Due to SB 1066		175,321	538,564	546,427	553,585	560,837	568,183	575,626	583,166
C	Subtotal, Recycling Before CT Tonnage		8,174,450	8,664,320	8,801,925	8,935,800	9,073,018	9,213,729	9,358,098	9,506,296
C	Plus: Conversion Technology Sorting		36,109	36,812	36,812	36,812	61,353	61,353	61,353	61,353
C	Total		8,210,559	8,701,132	8,838,737	8,972,612	9,134,371	9,275,082	9,419,451	9,567,649
	Paper									
I	Projected Growth Rate		2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%
C	Projected Growth		52,110	53,413	54,748	56,117	57,520	58,958	60,432	61,943
I/C	Tonnage, In-State (1)	2,084,412	2,136,522	2,189,935	2,244,683	2,300,800	2,358,320	2,417,278	2,477,710	2,539,653
I/C	Projected Growth Rate		12.1%	12.1%	12.1%	12.1%	12.1%	12.1%	12.1%	12.1%
C	Projected Growth		316,052	320,666	325,348	330,098	334,422	338,803	343,242	347,738
I/C	Tonnage, Export (1)	2,612,000	2,650,135	2,688,827	2,728,084	2,763,822	2,800,028	2,836,708	2,873,869	2,911,517
C	Tonnage, In-State and Export		4,786,657	4,878,762	4,972,767	5,064,622	5,158,348	5,253,986	5,351,579	5,451,170
R/C	Plus: Increases Due to SB 1066		116,415	430,618	436,905	442,628	448,426	454,300	460,251	466,280
C	Subtotal, Recycling Before CT Tonnage		4,903,072	5,309,380	5,409,672	5,507,250	5,606,774	5,708,286	5,811,830	5,917,450
R/C	Plus: Conversion Technology Sorting		-	-	-	-	-	-	-	-
C	Total		4,903,072	5,309,380	5,409,672	5,507,250	5,606,774	5,708,286	5,811,830	5,917,450
	Plastic									
I	Projected Growth Rate			8.7%	8.7%	8.7%	8.7%	8.7%	8.7%	8.7%
C	Projected Growth			12,085	13,136	14,279	15,521	16,872	18,340	19,935
I/C	Tonnage (1)		138,906	150,991	164,127	178,406	193,927	210,799	229,139	249,074
R/C	Plus: Increases Due to SB 1066		5,969	24,506	24,864	25,190	25,520	25,854	26,193	26,536
C	Subtotal, Recycling Before CT Tonnage		144,875	175,497	188,991	203,596	219,447	236,653	255,332	275,610
R/C	Plus: Conversion Technology Sorting		36,109	36,812	36,812	36,812	61,353	61,353	61,353	61,353
C	Total		180,984	212,309	225,803	240,408	280,800	298,006	316,685	336,963
	Organics									
C	Projected Growth Rate (2)		0.73%	0.73%	0.73%	0.66%	0.66%	0.66%	0.66%	0.66%
C	Projected Growth		22,274	22,437	22,601	20,583	20,719	20,855	20,993	21,132
I/C	Tonnage (1)(3)	3,051,292	3,073,566	3,096,003	3,118,604	3,139,187	3,159,906	3,180,761	3,201,754	3,222,886
R/C	Plus: Increases Due to SB 1066		52,937	83,440	84,658	85,767	86,891	88,029	89,182	90,350
C	Subtotal, Recycling Before CT Tonnage		3,126,503	3,179,443	3,203,262	3,224,954	3,246,797	3,268,790	3,290,936	3,313,236
R/C	Plus: Conversion Technology Sorting		-	-	-	-	-	-	-	-
C	Total		3,126,503	3,179,443	3,203,262	3,224,954	3,246,797	3,268,790	3,290,936	3,313,236

(1) Growth rate assumed to be population growth rate for region.
(2) Projected growth rate is half of population growth rate.
(3) Total feedstock received at regional composting and mulch facilities (including material used for ADC), per 2003 survey by Integrated Waste Management Consulting for the CIWMB.

Appendix F

Calculation of Individual Materials Diverted
San Francisco Bay Area

I/R/C		2002	2003	2004	2005	2006	2007	2008	2009	2010
	Population Growth Rate (1)		1.40%	1.40%	1.40%	1.02%	1.02%	1.02%	1.02%	1.02%
	Total of Materials Listed Below									
C	Tonnage		3,675,712	3,730,103	3,785,807	3,835,534	3,886,554	3,938,931	3,992,733	4,048,029
C	Plus: Increases Due to SB 1066		160,698	314,586	318,990	322,244	325,531	328,852	332,206	335,594
C	Subtotal, Recycling Before CT Tonnage		3,836,410	4,044,689	4,104,797	4,157,778	4,212,085	4,267,783	4,324,939	4,383,623
C	Plus: Conversion Technology Sorting		34,784	35,651	35,651	35,651	59,419	59,419	59,419	59,419
C	Total		3,871,194	4,080,340	4,140,448	4,193,429	4,271,504	4,327,202	4,384,358	4,443,042
	Paper									
I	Projected Growth Rate		2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%
C	Projected Growth		22,094	22,647	23,213	23,793	24,388	24,998	25,623	26,263
I/C	Tonnage, In-State (1)	883,767	905,861	928,508	951,721	975,514	999,902	1,024,900	1,050,523	1,076,786
I/C	Projected Growth Rate		13.8%	13.8%	13.8%	13.8%	13.8%	13.8%	13.8%	13.8%
C	Projected Growth		146,280	148,328	150,405	152,510	154,066	155,637	157,225	158,828
I/C	Tonnage, Export (1)	1,060,000	1,074,840	1,089,888	1,105,146	1,116,418	1,127,805	1,139,309	1,150,930	1,162,669
C	Tonnage, In-State and Export		1,980,701	2,018,396	2,056,867	2,091,932	2,127,707	2,164,209	2,201,453	2,239,455
R/C	Plus: Increases Due to SB 1066		61,354	148,951	151,036	152,577	154,133	155,705	157,293	158,897
C	Subtotal, Recycling Before CT Tonnage		2,042,055	2,167,347	2,207,903	2,244,509	2,281,840	2,319,914	2,358,746	2,398,352
R/C	Plus: Conversion Technology Sorting		-	-	-	-	-	-	-	-
C	Total		2,042,055	2,167,347	2,207,903	2,244,509	2,281,840	2,319,914	2,358,746	2,398,352
	Plastic									
I	Projected Growth Rate			8.7%	8.7%	8.7%	8.7%	8.7%	8.7%	8.7%
C	Projected Growth			5,254	5,711	6,208	6,748	7,335	7,974	8,667
I/C	Tonnage (1)		60,394	65,648	71,359	77,567	84,315	91,650	99,624	108,291
R/C	Plus: Increases Due to SB 1066		2,214	9,735	9,871	9,972	10,074	10,177	10,281	10,386
C	Subtotal, Recycling Before CT Tonnage		62,608	75,383	81,230	87,539	94,389	101,827	109,905	118,677
R/C	Plus: Conversion Technology Sorting		34,784	35,651	35,651	35,651	59,419	59,419	59,419	59,419
C	Total		97,392	111,034	116,881	123,190	153,808	161,246	169,324	178,096
	Organics									
C	Projected Growth Rate (2)		0.70%	0.70%	0.70%	0.51%	0.51%	0.51%	0.51%	0.51%
C	Projected Growth		11,363	11,442	11,522	8,454	8,497	8,540	8,584	8,627
I/C	Tonnage (1)(3)	1,623,254	1,634,617	1,646,059	1,657,581	1,666,035	1,674,532	1,683,072	1,691,656	1,700,283
R/C	Plus: Increases Due to SB 1066		97,130	155,900	158,083	159,695	161,324	162,970	164,632	166,311
C	Subtotal, Recycling Before CT Tonnage		1,731,747	1,801,959	1,815,664	1,825,730	1,835,856	1,846,042	1,856,288	1,866,594
R/C	Plus: Conversion Technology Sorting		-	-	-	-	-	-	-	-
C	Total		1,731,747	1,801,959	1,815,664	1,825,730	1,835,856	1,846,042	1,856,288	1,866,594

(1) Population growth rate assumed growth rate for SB 1066 program tonnage.
(2) Projected growth rate is half of population growth rate.
(3) Total feedstock received at regional composting and mulch facilities (including material used for ADC), per 2003 survey by Integrated Waste Management Consulting for the CIWMB.

Appendix F

Calculation of Individual Materials Disposed

I/R/C	Greater Los Angeles Area	2002 % of Composition	2002 Disposal Tons	2003 Disposal Tons	2003 SB 1066 Tons	2003 Post-SB 1066 Tons End	Redistribute % Waste Composition
	Growth Rate Projection			1.46%			
	Total Tonnage		19,067,447	19,345,832	278,082	19,065,816	
C	Total Paper	**27.50%**	**5,243,548**	**5,320,104**	**116,415**	**5,203,689**	**27.30%**
I/C	Uncoated Corrugated Cardboard	4.69%	894,263	907,320	19,854	887,466	4.65%
I/C	Paper Bags	0.64%	122,032	123,813	2,709	121,104	0.64%
I/C	Newspaper	4.08%	777,952	789,310	17,272	772,038	4.05%
I/C	White Ledger	1.62%	308,893	313,402	6,858	306,544	1.61%
I/C	Color Ledger	0.14%	26,694	27,084	593	26,491	0.14%
I/C	Computer Paper	0.33%	62,923	63,841	1,397	62,444	0.33%
I/C	Other Office Paper	1.35%	257,411	261,169	5,715	255,454	1.34%
I/C	Magazines and Catalogs	1.49%	284,105	288,253	6,308	281,945	1.48%
I/C	Phone Books and Directory	0.38%	72,456	73,514	1,609	71,905	0.38%
I/C	Other Miscellaneous Paper	3.96%	755,071	766,095	16,764	749,331	3.93%
I/C	Remainder/Composite Paper	8.82%	1,681,749	1,706,302	37,337	1,668,965	8.75%
C	Total Glass	**3.20%**	**610,158**	**619,067**	**12,072**	**606,995**	**3.19%**
I/C	` Clear Glass Bottles and Containers	1.35%	257,411	261,169	5,093	256,076	1.34%
I/C	Green Glass Bottles and Containers	0.50%	95,337	96,729	1,886	94,843	0.50%
I/C	Brown Glass Bottles and Containers	0.47%	89,617	90,925	1,773	89,152	0.47%
I/C	Other Colored Glass Bottles and Containers	0.01%	1,907	1,935	38	1,897	0.01%
I/C	Flat Glass	0.13%	24,788	25,150	490	24,660	0.13%
I/C	Remainder/Composite Glass	0.74%	141,099	143,159	2,792	140,367	0.74%
C	Total Metal	**6.38%**	**1,216,503**	**1,234,264**	**24,068**	**1,210,196**	**6.36%**
I/C	Tin/Steel Cans	0.92%	175,421	177,982	3,471	174,511	0.92%
I/C	Major Appliances	0.08%	15,254	15,477	302	15,175	0.08%
I/C	Other Ferrous	2.63%	501,474	508,795	9,921	498,874	2.62%
I/C	Aluminum Cans	0.21%	40,042	40,626	792	39,834	0.21%
I/C	Other Non-Ferrous	0.28%	53,389	54,168	1,056	53,112	0.28%
I/C	Remainder/Composite Metal	2.26%	430,924	437,216	8,526	428,690	2.25%
C	Total Plastics	**9.53%**	**1,817,128**	**1,843,658**	**5,969**	**1,837,689**	**9.63%**
I/C	HDPE Containers	0.79%	150,633	152,832	495	152,337	0.80%
I/C	PETE Containers	0.38%	72,456	73,514	238	73,276	0.38%
I/C	Miscellaneous Plastic Containers	0.57%	108,684	110,271	357	109,914	0.58%
I/C	Film Plastic	4.42%	842,781	855,086	2,768	852,318	4.47%
I/C	Durable Plastic Items	2.13%	406,137	412,066	1,334	410,732	2.15%
I/C	Remainder/Composite Plastic	1.24%	236,436	239,888	777	239,111	1.25%

Appendix F

Calculation of Individual Materials Disposed

I/R/C	Greater Los Angeles Area	2002 % of Composition	2002 Disposal Tons	2003 Disposal Tons	2003 SB 1066 Tons	2003 Post-SB 1066 Tons End	Redistribute % Waste Composition
C	Total Organic	**35.72%**	**6,810,892**	**6,910,331**	**52,937**	**6,857,394**	**35.97%**
I/C	Food	17.26%	3,291,041	3,339,091	25,579	3,313,512	17.38%
I/C	Leaves and Grass	6.61%	1,260,358	1,278,759	9,796	1,268,963	6.66%
I/C	Prunings and Trimmings	1.52%	289,825	294,057	2,253	291,804	1.53%
I/C	Branchs and Stumps	0.07%	13,347	13,542	104	13,438	0.07%
I/C	Agricultural Crop Residues	0.00%	-	-	-	-	0.00%
I/C	Manures	0.26%	49,575	50,299	385	49,914	0.26%
I/C	Textiles	2.51%	478,593	485,580	3,720	481,860	2.53%
I/C	Remainder/Composite Organic	7.49%	1,428,152	1,449,003	11,100	1,437,903	7.54%
C	Total Construction and Demolition	**13.17%**	**2,511,183**	**2,547,846**	**49,683**	**2,498,163**	**13.10%**
I/C	Concrete	0.86%	163,980	166,374	3,244	163,130	0.86%
I/C	Asphalt Paving	0.07%	13,347	13,542	264	13,278	0.07%
I/C	Asphalt Roofing	0.39%	74,363	75,449	1,471	73,978	0.39%
I/C	Lumber	5.05%	962,906	976,965	19,051	957,914	5.02%
I/C	Gypsum Board	1.67%	318,426	323,075	6,300	316,775	1.66%
I/C	Rock, Soil and Fines	1.79%	341,307	346,290	6,753	339,537	1.78%
I/C	Remainder/Composite Construction and Demolition	3.34%	636,853	646,151	12,600	633,551	3.32%
C	Total Household Hazardous	**0.22%**	**41,948**	**42,561**	**830**	**41,731**	**0.22%**
I/C	Paint	0.10%	19,067	19,346	377	18,969	0.10%
I/C	Vehicle and Equipment Fluids	0.01%	1,907	1,935	38	1,897	0.01%
I/C	Used Oil	0.00%	-	-	-	-	0.00%
I/C	Batteries	0.07%	13,347	13,542	264	13,278	0.07%
I/C	Remainder/Composite Household Hazardous	0.04%	7,627	7,738	151	7,587	0.04%
C	Total Special Waste	**2.67%**	**509,101**	**516,534**	**10,072**	**506,462**	**2.66%**
I/C	Ash	0.04%	7,627	7,738	151	7,587	0.04%
I/C	Sewage Solids	0.00%	-	-	-	-	0.00%
I/C	Industrial Sludge	0.00%	-	-	-	-	0.00%
I/C	Treated Medical Waste	0.13%	24,788	25,150	490	24,660	0.13%
I/C	Bulky Items	1.42%	270,758	274,711	5,357	269,354	1.41%
I/C	Tires	0.47%	89,617	90,925	1,773	89,152	0.47%
I/C	Remainder/Composite Special Waste	0.61%	116,311	118,010	2,301	115,709	0.61%
C	Total Mixed Residue	**1.60%**	**305,079**	**309,533**	**6,036**	**303,497**	**1.59%**
I/C	Mixed Residue	1.60%	305,079	309,533	6,036	303,497	1.59%

Appendix F

Calculation of Individual Materials Disposed

I/R/C	Greater Los Angeles Area	2004 Disposal Tons	2004 SB 1066 Tons	2004 Post-SB 1066 Tons End	Redistribute % Waste Composition
	Growth Rate Projection	1.46%			
	Total Tonnage	19,344,177	677,550	18,670,494	
C	Total Paper	**5,280,960**	**312,503**	**4,968,457**	**26.61%**
I/C	Uncoated Corrugated Cardboard	899,504	53,229	846,275	4.53%
I/C	Paper Bags	123,803	7,326	116,477	0.62%
I/C	Newspaper	783,439	46,360	737,079	3.95%
I/C	White Ledger	311,441	18,430	293,011	1.57%
I/C	Color Ledger	27,082	1,603	25,479	0.14%
I/C	Computer Paper	63,836	3,778	60,058	0.32%
I/C	Other Office Paper	259,212	15,339	243,873	1.31%
I/C	Magazines and Catalogs	286,294	16,942	269,352	1.44%
I/C	Phone Books and Directory	73,508	4,350	69,158	0.37%
I/C	Other Miscellaneous Paper	760,226	44,987	715,239	3.83%
I/C	Remainder/Composite Paper	1,692,615	100,161	1,592,454	8.53%
C	Total Glass	**617,079**	**37,272**	**579,807**	**3.11%**
I/C	` Clear Glass Bottles and Containers	259,212	15,657	243,555	1.30%
I/C	Green Glass Bottles and Containers	96,721	5,842	90,879	0.49%
I/C	Brown Glass Bottles and Containers	90,918	5,491	85,427	0.46%
I/C	Other Colored Glass Bottles and Containers	1,934	117	1,817	0.01%
I/C	Flat Glass	25,147	1,519	23,628	0.13%
I/C	Remainder/Composite Glass	143,147	8,646	134,501	0.72%
C	Total Metal	**1,230,290**	**74,310**	**1,155,980**	**6.19%**
I/C	Tin/Steel Cans	177,966	10,749	167,217	0.90%
I/C	Major Appliances	15,475	935	14,540	0.08%
I/C	Other Ferrous	506,817	30,612	476,205	2.55%
I/C	Aluminum Cans	40,623	2,454	38,169	0.20%
I/C	Other Non-Ferrous	54,164	3,272	50,892	0.27%
I/C	Remainder/Composite Metal	435,244	26,289	408,955	2.19%
C	Total Plastics	**1,862,844**	**18,450**	**1,844,394**	**9.88%**
I/C	HDPE Containers	154,753	1,533	153,220	0.82%
I/C	PETE Containers	73,508	728	72,780	0.39%
I/C	Miscellaneous Plastic Containers	112,196	1,111	111,085	0.59%
I/C	Film Plastic	864,685	8,564	856,121	4.59%
I/C	Durable Plastic Items	415,900	4,119	411,781	2.21%
I/C	Remainder/Composite Plastic	241,802	2,395	239,407	1.28%

Appendix F

Calculation of Individual Materials Disposed

I/R/C	Greater Los Angeles Area	2004 Disposal Tons	2004 SB 1066 Tons	2004 Post-SB 1066 Tons End	Redistribute % Waste Composition
C	Total Organic	**6,958,100**	**29,730**	**6,928,370**	**37.11%**
I/C	Food	3,362,018	14,365	3,347,653	17.93%
I/C	Leaves and Grass	1,288,322	5,505	1,282,817	6.87%
I/C	Prunings and Trimmings	295,966	1,265	294,701	1.58%
I/C	Branchs and Stumps	13,541	58	13,483	0.07%
I/C	Agricultural Crop Residues	-	-	-	0.00%
I/C	Manures	50,295	215	50,080	0.27%
I/C	Textiles	489,408	2,091	487,317	2.61%
I/C	Remainder/Composite Organic	1,458,551	6,232	1,452,319	7.78%
C	Total Construction and Demolition	**2,534,087**	**153,059**	**2,381,028**	**12.76%**
I/C	Concrete	166,360	10,048	156,312	0.84%
I/C	Asphalt Paving	13,541	818	12,723	0.07%
I/C	Asphalt Roofing	75,442	4,557	70,885	0.38%
I/C	Lumber	971,078	58,653	912,425	4.89%
I/C	Gypsum Board	321,113	19,395	301,718	1.62%
I/C	Rock, Soil and Fines	344,326	20,797	323,529	1.73%
I/C	Remainder/Composite Construction and Demolition	642,227	38,791	603,436	3.23%
C	Total Household Hazardous	**42,557**	**2,570**	**39,987**	**0.22%**
I/C	Paint	19,344	1,168	18,176	0.10%
I/C	Vehicle and Equipment Fluids	1,934	117	1,817	0.01%
I/C	Used Oil	-	-	-	0.00%
I/C	Batteries	13,541	818	12,723	0.07%
I/C	Remainder/Composite Household Hazardous	7,738	467	7,271	0.04%
C	Total Special Waste	**514,555**	**31,079**	**483,476**	**2.59%**
I/C	Ash	7,738	467	7,271	0.04%
I/C	Sewage Solids	-	-	-	0.00%
I/C	Industrial Sludge	-	-	-	0.00%
I/C	Treated Medical Waste	25,147	1,519	23,628	0.13%
I/C	Bulky Items	272,753	16,474	256,279	1.37%
I/C	Tires	90,918	5,491	85,427	0.46%
I/C	Remainder/Composite Special Waste	117,999	7,127	110,872	0.59%
C	Total Mixed Residue	**307,572**	**18,577**	**288,995**	**1.55%**
I/C	Mixed Residue	307,572	18,577	288,995	1.55%

Appendix F

Calculation of Individual Materials Disposed

I/R/C	Greater Los Angeles Area	2005	2006	2007	2008	2009	2010
	Growth Rate Projection	1.46%	1.31%	1.31%	1.31%	1.31%	1.31%
	Total Tonnage	18,943,083	19,191,237	19,442,642	19,697,341	19,955,376	20,216,791
C	Total Paper	**5,040,754**	**5,106,788**	**5,173,687**	**5,241,462**	**5,310,126**	**5,379,688**
I/C	Uncoated Corrugated Cardboard	858,122	869,363	880,752	892,290	903,979	915,821
I/C	Paper Bags	117,447	118,986	120,544	122,124	123,723	125,344
I/C	Newspaper	748,252	758,054	767,984	778,045	788,237	798,563
I/C	White Ledger	297,406	301,302	305,249	309,248	313,299	317,404
I/C	Color Ledger	26,520	26,868	27,220	27,576	27,938	28,304
I/C	Computer Paper	60,618	61,412	62,216	63,031	63,857	64,694
I/C	Other Office Paper	248,154	251,405	254,699	258,035	261,415	264,840
I/C	Magazines and Catalogs	272,780	276,354	279,974	283,642	287,357	291,122
I/C	Phone Books and Directory	70,089	71,008	71,938	72,880	73,835	74,802
I/C	Other Miscellaneous Paper	725,520	735,024	744,653	754,408	764,291	774,303
I/C	Remainder/Composite Paper	1,615,845	1,637,013	1,658,457	1,680,183	1,702,194	1,724,492
C	Total Glass	**589,130**	**596,847**	**604,666**	**612,587**	**620,612**	**628,742**
I/C	` Clear Glass Bottles and Containers	246,260	249,486	252,754	256,065	259,420	262,818
I/C	Green Glass Bottles and Containers	92,821	94,037	95,269	96,517	97,781	99,062
I/C	Brown Glass Bottles and Containers	87,138	88,280	89,436	90,608	91,795	92,997
I/C	Other Colored Glass Bottles and Containers	1,894	1,919	1,944	1,970	1,996	2,022
I/C	Flat Glass	24,626	24,949	25,275	25,607	25,942	26,282
I/C	Remainder/Composite Glass	136,390	138,177	139,987	141,821	143,679	145,561
C	Total Metal	**1,172,577**	**1,187,938**	**1,203,500**	**1,219,265**	**1,235,238**	**1,251,419**
I/C	Tin/Steel Cans	170,488	172,721	174,984	177,276	179,598	181,951
I/C	Major Appliances	15,154	15,353	15,554	15,758	15,964	16,173
I/C	Other Ferrous	483,049	489,377	495,787	502,282	508,862	515,528
I/C	Aluminum Cans	37,886	38,382	38,885	39,395	39,911	40,434
I/C	Other Non-Ferrous	51,146	51,816	52,495	53,183	53,880	54,585
I/C	Remainder/Composite Metal	414,854	420,288	425,794	431,372	437,023	442,748
C	Total Plastics	**1,871,577**	**1,896,094**	**1,920,933**	**1,946,097**	**1,971,591**	**1,997,419**
I/C	HDPE Containers	155,333	157,368	159,430	161,518	163,634	165,778
I/C	PETE Containers	73,878	74,846	75,826	76,820	77,826	78,845
I/C	Miscellaneous Plastic Containers	111,764	113,228	114,712	116,214	117,737	119,279
I/C	Film Plastic	869,488	880,878	892,417	904,108	915,952	927,951
I/C	Durable Plastic Items	418,642	424,126	429,682	435,311	441,014	446,791
I/C	Remainder/Composite Plastic	242,471	245,648	248,866	252,126	255,429	258,775
			-	-	-	-	-

Appendix F

Calculation of Individual Materials Disposed

I/R/C	Greater Los Angeles Area	2005	2006	2007	2008	2009	2010
C	Total Organic	**7,029,778**	**7,121,868**	**7,215,164**	**7,309,683**	**7,405,440**	**7,502,451**
I/C	Food	3,396,495	3,440,989	3,486,066	3,531,733	3,577,999	3,624,871
I/C	Leaves and Grass	1,301,390	1,318,438	1,335,710	1,353,207	1,370,934	1,388,894
I/C	Prunings and Trimmings	299,301	303,222	307,194	311,218	315,295	319,425
I/C	Branchs and Stumps	13,260	13,434	13,610	13,788	13,969	14,152
I/C	Agricultural Crop Residues	-	-	-	-	-	-
I/C	Manures	51,146	51,816	52,495	53,183	53,880	54,585
I/C	Textiles	494,414	500,891	507,453	514,101	520,835	527,658
I/C	Remainder/Composite Organic	1,473,772	1,493,078	1,512,638	1,532,453	1,552,528	1,572,866
C	Total Construction and Demolition	**2,417,137**	**2,448,802**	**2,480,881**	**2,513,381**	**2,546,306**	**2,579,663**
I/C	Concrete	159,122	161,206	163,318	165,458	167,625	169,821
I/C	Asphalt Paving	13,260	13,434	13,610	13,788	13,969	14,152
I/C	Asphalt Roofing	71,984	72,927	73,882	74,850	75,830	76,824
I/C	Lumber	926,317	938,451	950,745	963,200	975,818	988,601
I/C	Gypsum Board	306,878	310,898	314,971	319,097	323,277	327,512
I/C	Rock, Soil and Fines	327,715	332,008	336,358	340,764	345,228	349,750
I/C	Remainder/Composite Construction and Demolitio	611,862	619,877	627,997	636,224	644,559	653,002
C	Total Household Hazardous	**41,675**	**42,221**	**42,774**	**43,334**	**43,902**	**44,477**
I/C	Paint	18,943	19,191	19,443	19,697	19,955	20,217
I/C	Vehicle and Equipment Fluids	1,894	1,919	1,944	1,970	1,996	2,022
I/C	Used Oil	-	-	-	-	-	-
I/C	Batteries	13,260	13,434	13,610	13,788	13,969	14,152
I/C	Remainder/Composite Household Hazardous	7,577	7,676	7,777	7,879	7,982	8,087
			-	-	-	-	-
C	Total Special Waste	**490,626**	**497,053**	**503,564**	**510,161**	**516,844**	**523,615**
I/C	Ash	7,577	7,676	7,777	7,879	7,982	8,087
I/C	Sewage Solids	-	-	-	-	-	-
I/C	Industrial Sludge	-	-	-	-	-	-
I/C	Treated Medical Waste	24,626	24,949	25,275	25,607	25,942	26,282
I/C	Bulky Items	259,520	262,920	266,364	269,854	273,389	276,970
I/C	Tires	87,138	88,280	89,436	90,608	91,795	92,997
I/C	Remainder/Composite Special Waste	111,764	113,228	114,712	116,214	117,737	119,279
C	Total Mixed Residue	**293,618**	**297,464**	**301,361**	**305,309**	**309,308**	**313,360**
I/C	Mixed Residue	293,618	297,464	301,361	305,309	309,308	313,360

Appendix F

Calculation of Individual Materials Disposed

I/R/C	Greater San Francisco Area	2002 % of Composition	2002 Disposal Tons	2003 Disposal Tons	2003 SB 1066 Tons	2003 Post-SB 1066 Tons End	Redistribute % Waste Composition
	Growth Rate Projection			1.40%			
	Total Tonnage		6,524,916	6,616,265	182,490	6,433,775	
C	Total Paper	**25.98%**	**1,695,173**	**1,718,906**	**61,354**	**1,657,552**	**25.77%**
I/C	Uncoated Corrugated Cardboard	4.69%	306,019	310,303	11,076	299,227	4.65%
I/C	Paper Bags	0.77%	50,242	50,945	1,818	49,127	0.76%
I/C	Newspaper	3.92%	255,777	259,358	9,257	250,101	3.89%
I/C	White Ledger	1.33%	86,781	87,996	3,141	84,855	1.32%
I/C	Color Ledger	0.12%	7,830	7,940	283	7,657	0.12%
I/C	Computer Paper	0.21%	13,702	13,894	496	13,398	0.21%
I/C	Other Office Paper	1.06%	69,164	70,132	2,503	67,629	1.05%
I/C	Magazines and Catalogs	1.43%	93,306	94,613	3,377	91,236	1.42%
I/C	Phone Books and Directory	0.28%	18,270	18,526	661	17,865	0.28%
I/C	Other Miscellaneous Paper	3.97%	259,039	262,666	9,375	253,291	3.94%
I/C	Remainder/Composite Paper	8.20%	535,043	542,534	19,365	523,169	8.13%
C	Total Glass	**3.04%**	**198,357**	**201,134**	**2,092**	**199,042**	**3.10%**
I/C	` Clear Glass Bottles and Containers	1.49%	97,221	98,582	1,025	97,557	1.52%
I/C	Green Glass Bottles and Containers	0.49%	31,972	32,420	337	32,083	0.50%
I/C	Brown Glass Bottles and Containers	0.40%	26,100	26,465	275	26,190	0.41%
I/C	Other Colored Glass Bottles and Containers	0.02%	1,305	1,323	14	1,309	0.02%
I/C	Flat Glass	0.17%	11,092	11,248	117	11,131	0.17%
I/C	Remainder/Composite Glass	0.47%	30,667	31,096	323	30,773	0.48%
C	Total Metal	**7.55%**	**492,631**	**499,528**	**5,195**	**494,333**	**7.69%**
I/C	Tin/Steel Cans	0.88%	57,419	58,223	606	57,617	0.90%
I/C	Major Appliances	0.13%	8,482	8,601	89	8,512	0.13%
I/C	Other Ferrous	2.86%	186,613	189,225	1,968	187,257	2.91%
I/C	Aluminum Cans	0.20%	13,050	13,233	138	13,095	0.20%
I/C	Other Non-Ferrous	0.30%	19,575	19,849	206	19,643	0.31%
I/C	Remainder/Composite Metal	3.18%	207,492	210,397	2,188	208,209	3.24%
C	Total Plastics	**8.48%**	**553,313**	**561,059**	**2,214**	**558,845**	**8.69%**
I/C	HDPE Containers	0.77%	50,242	50,945	201	50,744	0.79%
I/C	PETE Containers	0.45%	29,362	29,773	117	29,656	0.46%
I/C	Miscellaneous Plastic Containers	0.50%	32,625	33,081	131	32,950	0.51%
I/C	Film Plastic	3.63%	236,854	240,170	948	239,222	3.72%
I/C	Durable Plastic Items	1.67%	108,966	110,492	436	110,056	1.71%
I/C	Remainder/Composite Plastic	1.46%	95,264	96,597	381	96,216	1.50%

Appendix F

Calculation of Individual Materials Disposed

I/R/C	Greater San Francisco Area	2002 % of Composition	2002 Disposal Tons	2003 Disposal Tons	2003 SB 1066 Tons	2003 Post-SB 1066 Tons End	Redistribute % Waste Composition
C	Total Organic	**33.87%**	**2,209,989**	**2,240,929**	**97,130**	**2,143,799**	**33.33%**
I/C	Food	15.58%	1,016,582	1,030,814	44,679	986,135	15.33%
I/C	Leaves and Grass	6.85%	446,957	453,214	19,644	433,570	6.74%
I/C	Prunings and Trimmings	1.42%	92,654	93,951	4,072	89,879	1.40%
I/C	Branchs and Stumps	0.12%	7,830	7,940	344	7,596	0.12%
I/C	Agricultural Crop Residues	0.00%	-	-	-	-	0.00%
I/C	Manures	0.22%	14,355	14,556	631	13,925	0.22%
I/C	Textiles	2.80%	182,698	185,255	8,030	177,225	2.75%
I/C	Remainder/Composite Organic	6.88%	448,914	455,199	19,730	435,469	6.77%
C	Total Construction and Demolition	**16.86%**	**1,100,101**	**1,115,502**	**11,601**	**1,103,901**	**17.16%**
I/C	Concrete	1.70%	110,924	112,477	1,170	111,307	1.73%
I/C	Asphalt Paving	0.41%	26,752	27,127	282	26,845	0.42%
I/C	Asphalt Roofing	1.60%	104,399	105,860	1,101	104,759	1.63%
I/C	Lumber	8.07%	526,561	533,933	5,553	528,380	8.21%
I/C	Gypsum Board	1.47%	95,916	97,259	1,011	96,248	1.50%
I/C	Rock, Soil and Fines	1.13%	73,732	74,764	778	73,986	1.15%
I/C	Remainder/Composite Construction and Demolition	2.48%	161,818	164,083	1,706	162,377	2.52%
C	Total Household Hazardous	**0.20%**	**13,050**	**13,233**	**138**	**13,095**	**0.20%**
I/C	Paint	0.06%	3,915	3,970	41	3,929	0.06%
I/C	Vehicle and Equipment Fluids	0.01%	652	662	7	655	0.01%
I/C	Used Oil	0.02%	1,305	1,323	14	1,309	0.02%
I/C	Batteries	0.06%	3,915	3,970	41	3,929	0.06%
I/C	Remainder/Composite Household Hazardous	0.05%	3,262	3,308	35	3,273	0.05%
C	Total Special Waste	**2.50%**	**163,123**	**165,407**	**1,720**	**163,687**	**1.86%**
I/C	Ash	0.04%	2,610	2,647	28	2,619	0.04%
I/C	Sewage Solids	0.00%	-	-	-	-	0.00%
I/C	Industrial Sludge	0.00%	-	-	-	-	0.00%
I/C	Treated Medical Waste	0.02%	1,305	1,323	14	1,309	0.02%
I/C	Bulky Items	1.77%	115,491	117,108	1,218	115,890	1.80%
I/C	Tires	0.26%	16,965	17,202	179	17,023	0.26%
I/C	Remainder/Composite Special Waste	0.41%	26,752	27,127	282	26,845	0.42%
C	Total Mixed Residue	**1.52%**	**99,179**	**100,567**	**1,046**	**99,521**	**1.55%**
I/C	Mixed Residue	1.52%	99,179	100,567	1,046	99,521	1.55%

Appendix F

Calculation of Individual Materials Disposed

I/R/C	Greater San Francisco Area	2004 Disposal Tons	2004 SB 1066 Tons	2004 Post-SB 1066 Tons End	Redistribute % Waste Composition
	Growth Rate Projection	1.40%			
	Total Tonnage	6,523,848	220,818	6,260,626	
C	Total Paper	**1,681,196**	**86,738**	**1,594,458**	**25.46%**
I/C	Uncoated Corrugated Cardboard	303,359	15,651	287,708	4.60%
I/C	Paper Bags	49,581	2,558	47,023	0.75%
I/C	Newspaper	253,778	13,093	240,685	3.84%
I/C	White Ledger	86,115	4,443	81,672	1.30%
I/C	Color Ledger	7,829	404	7,425	0.12%
I/C	Computer Paper	13,700	707	12,993	0.21%
I/C	Other Office Paper	68,500	3,534	64,966	1.04%
I/C	Magazines and Catalogs	92,639	4,780	87,859	1.40%
I/C	Phone Books and Directory	18,267	942	17,325	0.28%
I/C	Other Miscellaneous Paper	257,040	13,261	243,779	3.89%
I/C	Remainder/Composite Paper	530,389	27,364	503,025	8.03%
C	Total Glass	**202,239**	**6,795**	**195,444**	**3.11%**
I/C	` Clear Glass Bottles and Containers	99,162	3,330	95,832	1.53%
I/C	Green Glass Bottles and Containers	32,619	1,095	31,524	0.50%
I/C	Brown Glass Bottles and Containers	26,748	894	25,854	0.41%
I/C	Other Colored Glass Bottles and Containers	1,305	45	1,260	0.02%
I/C	Flat Glass	11,091	380	10,711	0.17%
I/C	Remainder/Composite Glass	31,314	1,051	30,263	0.48%
C	Total Metal	**501,684**	**16,857**	**484,827**	**7.74%**
I/C	Tin/Steel Cans	58,715	1,965	56,750	0.91%
I/C	Major Appliances	8,481	290	8,191	0.13%
I/C	Other Ferrous	189,844	6,386	183,458	2.93%
I/C	Aluminum Cans	13,048	447	12,601	0.20%
I/C	Other Non-Ferrous	20,224	670	19,554	0.31%
I/C	Remainder/Composite Metal	211,373	7,100	204,273	3.26%
C	Total Plastics	**566,922**	**7,490**	**559,432**	**8.93%**
I/C	HDPE Containers	51,538	681	50,857	0.81%
I/C	PETE Containers	30,010	396	29,614	0.47%
I/C	Miscellaneous Plastic Containers	33,272	440	32,832	0.52%
I/C	Film Plastic	242,687	3,206	239,481	3.83%
I/C	Durable Plastic Items	111,558	1,474	110,084	1.76%
I/C	Remainder/Composite Plastic	97,858	1,293	96,565	1.54%

Appendix F

Calculation of Individual Materials Disposed

I/R/C	Greater San Francisco Area	2004 Disposal Tons	2004 SB 1066 Tons	2004 Post-SB 1066 Tons End	Redistribute % Waste Composition
C	Total Organic	**2,174,399**	**57,410**	**2,116,989**	**33.81%**
I/C	Food	1,000,106	26,405	973,701	15.55%
I/C	Leaves and Grass	439,707	11,609	428,098	6.84%
I/C	Prunings and Trimmings	91,334	2,411	88,923	1.42%
I/C	Branchs and Stumps	7,829	207	7,622	0.12%
I/C	Agricultural Crop Residues	-	-	-	0.00%
I/C	Manures	14,352	379	13,973	0.22%
I/C	Textiles	179,406	4,737	174,669	2.79%
I/C	Remainder/Composite Organic	441,665	11,661	430,004	6.87%
C	Total Construction and Demolition	**1,119,492**	**37,615**	**1,081,877**	**17.28%**
I/C	Concrete	112,863	3,793	109,070	1.74%
I/C	Asphalt Paving	27,400	915	26,485	0.42%
I/C	Asphalt Roofing	106,339	3,570	102,769	1.64%
I/C	Lumber	535,608	18,004	517,604	8.27%
I/C	Gypsum Board	97,858	3,280	94,578	1.51%
I/C	Rock, Soil and Fines	75,024	2,521	72,503	1.16%
I/C	Remainder/Composite Construction and Demolition	164,401	5,533	158,868	2.54%
C	Total Household Hazardous	**13,048**	**438**	**12,610**	**0.20%**
I/C	Paint	3,914	131	3,783	0.06%
I/C	Vehicle and Equipment Fluids	652	22	630	0.01%
I/C	Used Oil	1,305	44	1,261	0.02%
I/C	Batteries	3,914	131	3,783	0.06%
I/C	Remainder/Composite Household Hazardous	3,262	109	3,153	0.05%
C	Total Special Waste	**121,344**	**4,077**	**117,267**	**1.89%**
I/C	Ash	2,610	65	2,545	0.04%
I/C	Sewage Solids	-	-	-	0.00%
I/C	Industrial Sludge	-	-	-	0.00%
I/C	Treated Medical Waste	1,305	33	1,272	0.02%
I/C	Bulky Items	117,429	2,887	114,542	1.83%
I/C	Tires	16,962	424	16,538	0.26%
I/C	Remainder/Composite Special Waste	27,400	669	26,731	0.43%
C	Total Mixed Residue	**101,120**	**3,398**	**97,722**	**1.56%**
I/C	Mixed Residue	101,120	3,398	97,722	1.56%

Appendix F

Calculation of Individual Materials Disposed

I/R/C	Greater San Francisco Area	2005	2006	2007	2008	2009	2010
	Growth Rate Projection	1.40%	1.02%	1.02%	1.02%	1.02%	1.02%
	Total Tonnage	6,348,275	6,413,027	6,478,440	6,544,520	6,611,274	6,678,709
C	Total Paper	**1,616,271**	**1,632,757**	**1,649,411**	**1,666,235**	**1,683,230**	**1,700,399**
I/C	Uncoated Corrugated Cardboard	292,021	294,999	298,008	301,048	304,119	307,221
I/C	Paper Bags	47,612	48,098	48,588	49,084	49,585	50,090
I/C	Newspaper	243,774	246,260	248,772	251,310	253,873	256,462
I/C	White Ledger	82,528	83,369	84,220	85,079	85,947	86,823
I/C	Color Ledger	7,618	7,696	7,774	7,853	7,934	8,014
I/C	Computer Paper	13,331	13,467	13,605	13,743	13,884	14,025
I/C	Other Office Paper	66,022	66,695	67,376	68,063	68,757	69,459
I/C	Magazines and Catalogs	88,876	89,782	90,698	91,623	92,558	93,502
I/C	Phone Books and Directory	17,775	17,956	18,140	18,325	18,512	18,700
I/C	Other Miscellaneous Paper	246,948	249,467	252,011	254,582	257,179	259,802
I/C	Remainder/Composite Paper	509,766	514,966	520,219	525,525	530,885	536,300
C	Total Glass	**197,431**	**199,445**	**201,479**	**203,535**	**205,611**	**207,708**
I/C	` Clear Glass Bottles and Containers	97,129	98,119	99,120	100,131	101,152	102,184
I/C	Green Glass Bottles and Containers	31,741	32,065	32,392	32,723	33,056	33,394
I/C	Brown Glass Bottles and Containers	26,028	26,293	26,562	26,833	27,106	27,383
I/C	Other Colored Glass Bottles and Containers	1,270	1,283	1,296	1,309	1,322	1,336
I/C	Flat Glass	10,792	10,902	11,013	11,126	11,239	11,354
I/C	Remainder/Composite Glass	30,472	30,783	31,097	31,414	31,734	32,058
C	Total Metal	**491,356**	**496,368**	**501,431**	**506,546**	**511,713**	**516,932**
I/C	Tin/Steel Cans	57,769	58,359	58,954	59,555	60,163	60,776
I/C	Major Appliances	8,253	8,337	8,422	8,508	8,595	8,682
I/C	Other Ferrous	186,004	187,902	189,818	191,754	193,710	195,686
I/C	Aluminum Cans	12,697	12,826	12,957	13,089	13,223	13,357
I/C	Other Non-Ferrous	19,680	19,880	20,083	20,288	20,495	20,704
I/C	Remainder/Composite Metal	206,954	209,065	211,197	213,351	215,528	217,726
C	Total Plastics	**566,901**	**572,683**	**578,525**	**584,426**	**590,387**	**596,409**
I/C	HDPE Containers	51,421	51,946	52,475	53,011	53,551	54,098
I/C	PETE Containers	29,837	30,141	30,449	30,759	31,073	31,390
I/C	Miscellaneous Plastic Containers	33,011	33,348	33,688	34,032	34,379	34,729
I/C	Film Plastic	243,139	245,619	248,124	250,655	253,212	255,795
I/C	Durable Plastic Items	111,730	112,869	114,021	115,184	116,358	117,545
I/C	Remainder/Composite Plastic	97,763	98,761	99,768	100,786	101,814	102,852
			-	-	-	-	-

Appendix F

Calculation of Individual Materials Disposed

I/R/C	Greater San Francisco Area	2005	2006	2007	2008	2009	2010
C	Total Organic	**2,146,352**	**2,168,244**	**2,190,361**	**2,212,702**	**2,235,272**	**2,258,072**
I/C	Food	987,157	997,226	1,007,397	1,017,673	1,028,053	1,038,539
I/C	Leaves and Grass	434,222	438,651	443,125	447,645	452,211	456,824
I/C	Prunings and Trimmings	90,146	91,065	91,994	92,932	93,880	94,838
I/C	Branchs and Stumps	7,618	7,696	7,774	7,853	7,934	8,014
I/C	Agricultural Crop Residues	-	-	-	-	-	-
I/C	Manures	13,966	14,109	14,253	14,398	14,545	14,693
I/C	Textiles	177,117	178,923	180,748	182,592	184,455	186,336
I/C	Remainder/Composite Organic	436,126	440,575	445,069	449,609	454,195	458,827
C	Total Construction and Demolition	**1,096,982**	**1,108,171**	**1,119,474**	**1,130,893**	**1,142,428**	**1,154,081**
I/C	Concrete	110,460	111,587	112,725	113,875	115,036	116,210
I/C	Asphalt Paving	26,663	26,935	27,209	27,487	27,767	28,051
I/C	Asphalt Roofing	104,112	105,174	106,246	107,330	108,425	109,531
I/C	Lumber	525,002	530,357	535,767	541,232	546,752	552,329
I/C	Gypsum Board	95,859	96,837	97,824	98,822	99,830	100,849
I/C	Rock, Soil and Fines	73,640	74,391	75,150	75,916	76,691	77,473
I/C	Remainder/Composite Construction and Demolition	161,246	162,891	164,552	166,231	167,926	169,639
C	Total Household Hazardous	**12,697**	**12,826**	**12,957**	**13,089**	**13,223**	**13,357**
I/C	Paint	3,809	3,848	3,887	3,927	3,967	4,007
I/C	Vehicle and Equipment Fluids	635	641	648	654	661	668
I/C	Used Oil	1,270	1,283	1,296	1,309	1,322	1,336
I/C	Batteries	3,809	3,848	3,887	3,927	3,967	4,007
I/C	Remainder/Composite Household Hazardous	3,174	3,207	3,239	3,272	3,306	3,339
			-	-	-	-	-
C	Total Special Waste	**119,982**	**121,206**	**122,443**	**123,691**	**124,953**	**126,228**
I/C	Ash	2,539	2,565	2,591	2,618	2,645	2,671
I/C	Sewage Solids	-	-	-	-	-	-
I/C	Industrial Sludge	-	-	-	-	-	-
I/C	Treated Medical Waste	1,270	1,283	1,296	1,309	1,322	1,336
I/C	Bulky Items	116,173	117,358	118,555	119,765	120,986	122,220
I/C	Tires	16,506	16,674	16,844	17,016	17,189	17,365
I/C	Remainder/Composite Special Waste	27,298	27,576	27,857	28,141	28,428	28,718
C	Total Mixed Residue	**99,033**	**100,043**	**101,064**	**102,095**	**103,136**	**104,188**
I/C	Mixed Residue	99,033	100,043	101,064	102,095	103,136	104,188

Appendix F

Conversion Technology - Required Incoming Tonnage, Added Revenue and Jobs

Greater Los Angeles Area

I/R/C	Technology	2003	2004	2005	2006	2007	2008	2009	2010
R	Acid Hydrolysis	630,176	629,260	629,260	629,260	1,048,766	1,048,766	1,048,766	1,048,766
R	Gasification	737,681	734,863	918,579	918,579	918,579	918,579	918,579	1,102,294
C	Total	1,367,857	1,364,123	1,547,839	1,547,839	1,967,345	1,967,345	1,967,345	2,151,060

San Francisco Bay Area

I/R/C	Technology	2003	2004	2005	2006	2007	2008	2009	2010
R	Acid Hydrolysis	641,780	643,525	643,525	643,525	1,072,542	1,072,542	1,072,542	1,072,542
R	Gasification	754,643	754,475	943,093	943,093	943,093	943,093	943,093	1,131,712
C	Total	1,396,423	1,398,000	1,586,618	1,586,618	2,015,635	2,015,635	2,015,635	2,204,254

Additional CT Jobs Generated (based on 0.8 jobs per 1,000 annual ton through-put)

I/R/C	Technology	2003	2004	2005	2006	2007	2008	2009	2010
R	Greater Los Angeles Area	1,094	1,091	1,238	1,238	1,574	1,574	1,574	1,721
R	San Francisco Bay Area	1,117	1,118	1,269	1,269	1,613	1,613	1,613	1,763

CT Revenue Generated (based on CT tip fee assumed in "Inputs" increased estimated change in each areas's CPI)

I/R/C	Technology	2003	2004	2005	2006	2007	2008	2009	2010
R	Greater Los Angeles Area	$ 54,714,280	$ 55,929,043	$ 65,055,673	$ 66,680,904	$ 86,877,955	$ 89,042,035	$ 91,265,135	$ 102,282,903
R	San Francisco Bay Area	$ 55,856,920	$ 57,877,200	$ 67,986,581	$ 70,366,508	$ 92,517,647	$ 95,762,819	$ 99,108,773	$ 112,174,486

Appendix F

Conversion Techonolgy Facility Configurations - Both Areas

Facility Configurations, 2003 to 2010, Tons Per Day - At Full Capacity

I/R/C	Technology	2003	2004	2005	2006	2007	2008	2009	2010
I	Acid Hydrolysis	1,500	1,500	1,500	1,500	2,500	2,500	2,500	2,500
I	Gasification	2,000	2,000	2,500	2,500	2,500	2,500	2,500	3,000
I	Catalytic Cracking	50	50	50	50	50	50	50	50
C	Total	3,550	3,550	4,050	4,050	5,050	5,050	5,050	5,550

Facility Configurations, 2003 to 2010, Tons Per Year - At Full Capacity
(90% capacity, 329 operating days per year*)

I/R/C	Technology	2003	2004	2005	2006	2007	2008	2009	2010
C	Acid Hydrolysis	493,500	493,500	493,500	493,500	822,500	822,500	822,500	822,500
C	Gasification	658,000	658,000	822,500	822,500	822,500	822,500	822,500	987,000
C	Catalytic Cracking	16,450	16,450	16,450	16,450	16,450	16,450	16,450	16,450
C	Total	1,167,950	1,167,950	1,332,450	1,332,450	1,661,450	1,661,450	1,661,450	1,825,950

Facility Configurations, 2003 to 2010, Tons Per Year - At Capacities Assumed for This Model Run
(90% capacity, 329 operating days per year*)

I/R/C	Technology	2003	2004	2005	2006	2007	2008	2009	2010
C	Acid Hydrolysis - LA	493,500	493,500	493,500	493,500	822,500	822,500	822,500	822,500
C	Acid Hydrolysis - SF	493,500	493,500	493,500	493,500	822,500	822,500	822,500	822,500
C	Gasification - LA	658,000	658,000	822,500	822,500	822,500	822,500	822,500	987,000
C	Gasification - SF	658,000	658,000	822,500	822,500	822,500	822,500	822,500	987,000
C	Catalytic Cracking	16,450	16,450	16,450	16,450	16,450	16,450	16,450	16,450
C	Total	2,319,450	2,319,450	2,648,450	2,648,450	3,306,450	3,306,450	3,306,450	3,635,450

* In order to represent the greatest likely effect from conversion technologies, tonnage estimates are for maximum capacity with 10% down time.

Appendix F

Additional Diversion From Pre-Sorting Materials For Conversion Technologies

Greater Los Angeles Area

I/R/C	Acid Hydrolysis	2003	2004	2005	2006	2007	2008	2009	2010
R	Paper	-	-	-	-	-	-	-	-
R	Plastics	36,109	36,812	36,812	36,812	61,353	61,353	61,353	61,353
R	Organics	-	-	-	-	-	-	-	-
R	Other	53,738	51,962	51,962	51,962	86,602	86,602	86,602	86,602
C	Total	89,847	88,774	88,774	88,774	147,955	147,955	147,955	147,955

I/R/C	Gasification	2003	2004	2005	2006	2007	2008	2009	2010
R	Paper	-	-	-	-	-	-	-	-
R	Plastics	-	-	-	-	-	-	-	-
R	Organics	-	-	-	-	-	-	-	-
R	Other	62,906	60,681	75,852	75,852	75,852	75,852	75,852	91,022
C	Total	62,906	60,681	75,852	75,852	75,852	75,852	75,852	91,022

San Francisco Bay Area

I/R/C	Acid Hydrolysis	2003	2004	2005	2006	2007	2008	2009	2010
R	Paper	-	-	-	-	-	-	-	-
R	Plastics	34,784	35,651	35,651	35,651	59,419	59,419	59,419	59,419
R	Organics	-	-	-	-	-	-	-	-
R	Other	64,836	64,964	64,964	64,964	108,273	108,273	108,273	108,273
C	Total	99,620	100,615	100,615	100,615	167,692	167,692	167,692	167,692

I/R/C	Gasification	2003	2004	2005	2006	2007	2008	2009	2010
R	Paper	-	-	-	-	-	-	-	-
R	Plastics	-	-	-	-	-	-	-	-
R	Organics	-	-	-	-	-	-	-	-
R	Other	76,238	76,164	95,206	95,206	95,206	95,206	95,206	114,246
C	Total	76,238	76,164	95,206	95,206	95,206	95,206	95,206	114,246

Appendix F

Tons Disposed From Tonnage Entering Conversion Technology Facility

Greater Los Angeles Area

I/R/C	Technology	2003	2004	2005	2006	2007	2008	2009	2010
R	Acid Hydrolysis	54,617	54,711	54,711	54,711	91,186	91,186	91,186	91,186
R	Gasification	21,665	20,903	26,129	26,129	26,129	26,129	26,129	31,355
C	Total	76,282	75,614	80,840	80,840	117,315	117,315	117,315	122,541

San Francisco Bay Area

I/R/C	Technology	2003	2004	2005	2006	2007	2008	2009	2010
R	Acid Hydrolysis	57,015	57,930	57,930	57,930	96,550	96,550	96,550	96,550
R	Gasification	26,140	26,120	32,650	32,650	32,650	32,650	32,650	39,180
C	Total	83,155	84,050	90,580	90,580	129,200	129,200	129,200	135,730

Appendix F

Material Processing at Acid Hydrolysis Facility
Greater Los Angeles Area

I/R/C	Acid Hydrolysis Process - Greater Los Angeles Area	% of Waste Stream	% of Waste Stream Directed to CT	2003 Tons	2004 Tons	2005 Tons	2006 Tons	2007-2010 Tons
C	Total Incoming Tonnage Required			630,176	629,260	629,260	629,260	1,048,766
C	Minus Tons Recycled Due to Pre- Processing			89,847	88,774	88,774	88,774	147,955
C	Minus Tons Disposed Due to Pre-Processing			46,828	46,987	46,987	46,987	78,312
R	Total Incoming Tonnage Through CT Process			493,500	493,500	493,500	493,500	822,500
C	Tons Disposed After CT Processing			7,789	7,724	7,724	7,724	12,874
C/C	Total Percent Entering CT, 2003		78.31%	493,500				
C/C	Total Percent Entering CT, 2004-2010		78.43%		493,500	493,500	493,500	822,500
	Paper							
I/C/C	Percent of Waste Stream, 2003	27.30%	32.48%	204,681				
I/C/C	Percent of Waste Stream, 2004-2010	26.61%	31.51%		198,280	198,280	198,280	330,466
I/C	Portion diverted through sort		0.00%	0	0	0	0	0
I/C	Portion disposed through sort		0.00%	0	0	0	0	0
I/C	Inert residue disposed post-CT		0.00%	0	0	0	0	0
C/C	Percent of Waste Stream Entering CT, 2003		32.48%	204,681				
C/C	Percent of Waste Stream Entering CT, 2004-2010		31.51%		198,280	198,280	198,280	330,466
	Plastic							
I/C/C	Percent of Waste Stream, 2003	9.63%	11.46%	72,218				
I/C/C	Percent of Waste Stream, 2004-2010	9.88%	11.70%		73,623	73,623	73,623	122,706
I/C	Portion diverted through sort		50.00%	36,109	36,812	36,812	36,812	61,353
I/C	Portion disposed through sort		45.00%	32,498	33,131	33,131	33,131	55,218
I/C	Inert residue disposed post-CT		5.00%	3,611	3,681	3,681	3,681	6,135
C/C	Percent of Waste Stream Entering CT, 2003		0.57%	3,611				
C/C	Percent of Waste Stream Entering CT, 2004-2010		0.59%		3,681	3,681	3,681	6,135
	Organics							
I/C/C	Percent of Waste Stream, 2003	35.97%	42.80%	269,715				
I/C/C	Percent of Waste Stream, 2004-2010	37.11%	43.94%		276,497	276,497	276,497	460,828
I/C	Portion diverted through sort		0.00%	0	0	0	0	0
I/C	Portion disposed through sort		0.00%	0	0	0	0	0
I/C	Inert residue disposed post-CT		0.00%	0	0	0	0	0
C/C	Percent of Waste Stream Entering CT, 2003		42.80%	269,715				
C/C	Percent of Waste Stream Entering CT, 2004-2010		43.94%		276,497	276,497	276,497	460,828
	Mixed Residue							
I/C/C	Percent of Waste Stream, 2003	1.59%	1.89%	11,910				
I/C/C	Percent of Waste Stream, 2004-2010	1.55%	1.84%		11,578	11,578	11,578	19,297
I/C	Portion diverted through sort		0.00%	0	0	0	0	0
I/C	Portion disposed through sort		0.00%	0	0	0	0	0
I/C	Inert residue disposed post-CT		5.00%	596	579	579	579	965
C/C	Percent of Waste Stream Entering CT, 2003		1.89%	11,910				
C/C	Percent of Waste Stream Entering CT, 2004-2010		1.84%		11,578	11,578	11,578	19,297
	Glass							
I/C/C	Percent of Waste Stream, 2003	3.19%	3.80%	23,947				
I/C/C	Percent of Waste Stream, 2004-2010	3.11%	3.68%		23,157	23,157	23,157	38,595
I/C	Portion diverted through sort		75.00%	17,960	17,368	17,368	17,368	28,946
I/C	Portion disposed through sort		20.00%	4,789	4,631	4,631	4,631	7,719
I/C	Inert residue disposed post-CT		5.00%	1,197	1,158	1,158	1,158	1,930
C/C	Percent of Waste Stream Entering CT, 2003		0.19%	1,197				
C/C	Percent of Waste Stream Entering CT, 2004-2010		0.18%		1,158	1,158	1,158	1,930
	Metal							
I/C/C	Percent of Waste Stream, 2003	6.36%	7.57%	47,704				
I/C/C	Percent of Waste Stream, 2004-2010	6.19%	7.33%		46,125	46,125	46,125	76,875
I/C	Portion diverted through sort		75.00%	35,778	34,594	34,594	34,594	57,656
I/C	Portion disposed through sort		20.00%	9,541	9,225	9,225	9,225	15,375
I/C	Inert residue disposed post-CT		5.00%	2,385	2,306	2,306	2,306	3,844
C/C	Percent of Waste Stream Entering CT, 2003		0.38%	2,385				
C/C	Percent of Waste Stream Entering CT, 2004-2010		0.37%		2,306	2,306	2,306	3,844
C	% of Waste Stream Total - 2003	84.04%	100.00%					
C	% of Waste Stream Total - 2004 to 2010	84.45%	100.00%					
	Construction and Demolition (1)							
I	Percent of Waste Stream, 2003	13.10%						
I	Percent of Waste Stream, 2004-2010	12.76%						
	Portion Diverted through sort	0.00%						
	Portion disposed through sort							
	Portion disposed post-CT							
	Percent of Waste Stream Entering CT, 2003							
	Percent of Waste Stream Entering CT, 2004-2010							
	Household Hazardous Waste (1)							
I	Percent of Waste Stream, 2003	0.22%						
I	Percent of Waste Stream, 2004-2010	0.22%						
	Portion Diverted through sort							
	Portion disposed through sort							
	Portion disposed post-CT							
	Percent of Waste Stream Entering CT, 2003							
	Percent of Waste Stream Entering CT, 2004-2010							
	Special Waste (1)							
I	Percent of Waste Stream, 2003	2.66%						
I	Percent of Waste Stream, 2004-2010	2.59%						
	Portion Diverted through sort							
	Portion disposed through sort							
	Portion disposed post-CT							
	Percent of Waste Stream Entering CT, 2003							
	Percent of Waste Stream Entering CT, 2004-2010							

(1) Loads of these materials are not expected to be brought to conversion technology facilities.

Appendix F

Material Processing at Acid Hydrolysis Facility
San Francisco Bay Area

I/R/C	Acid Hydrolysis Process - San Francisco Bay Area	% of Waste Stream	% of Waste Stream Directed to CT	2003 Tons	2004 Tons	2005 Tons	2006 Tons	2007-2010 Tons
C	Total Incoming Tonnage Required			641,780	643,525	643,525	643,525	1,072,542
C	Minus Tons Recycled Due to Pre- Processing			99,620	100,615	100,615	100,615	167,692
C	Minus Tons Disposed Due to Pre-Processing			48,595	49,410	49,410	49,410	82,350
R	Total Incoming Tonnage Through CT Process			493,500	493,500	493,500	493,500	822,500
C	Tons Disposed After CT Processing			8,420	8,520	8,520	8,520	14,200
C/C	Total Percent Entering CT, 2003		76.90%	493,500				
C/C	Total Percent Entering CT, 2004-2010		76.69%		493,500	493,500	493,500	822,500
	Paper							
I/C/C	Percent of Waste Stream, 2003	25.77%	32.16%	206,396				
I/C/C	Percent of Waste Stream, 2004-2010	25.46%	31.58%		203,225	203,225	203,225	338,709
I/C	Portion diverted through sort		0.00%	0	0	0	0	0
I/C	Portion disposed through sort		0.00%	0	0	0	0	0
I/C	Inert residue disposed post-CT		0.00%	0	0	0	0	0
C/C	Percent of Waste Stream Entering CT, 2003		32.16%	206,396				
C/C	Percent of Waste Stream Entering CT, 2004-2010		31.58%		203,225	203,225	203,225	338,709
	Plastic							
I/C/C	Percent of Waste Stream, 2003	8.69%	10.84%	69,569				
I/C/C	Percent of Waste Stream, 2004-2010	8.93%	11.08%		71,303	71,303	71,303	118,838
I/C	Portion diverted through sort		50.00%	34,784	35,651	35,651	35,651	59,419
I/C	Portion disposed through sort		45.00%	31,306	32,086	32,086	32,086	53,477
I/C	Inert residue disposed post-CT		5.00%	3,478	3,565	3,565	3,565	5,942
C/C	Percent of Waste Stream Entering CT, 2003		0.54%	3,478				
C/C	Percent of Waste Stream Entering CT, 2004-2010		0.55%		3,565	3,565	3,565	5,942
	Organics							
I/C/C	Percent of Waste Stream, 2003	33.33%	41.59%	266,916				
I/C/C	Percent of Waste Stream, 2004-2010	33.81%	41.94%		269,894	269,894	269,894	449,824
I/C	Portion diverted through sort		0.00%	0	0	0	0	0
I/C	Portion disposed through sort		0.00%	0	0	0	0	0
I/C	Inert residue disposed post-CT		0.00%	0	0	0	0	0
C/C	Percent of Waste Stream Entering CT, 2003		41.59%	266,916				
C/C	Percent of Waste Stream Entering CT, 2004-2010		41.94%		269,894	269,894	269,894	449,824
	Mixed Residue							
I/C/C	Percent of Waste Stream, 2003	1.55%	1.93%	12,386				
I/C/C	Percent of Waste Stream, 2004-2010	1.56%	1.94%		12,484	12,484	12,484	20,807
I/C	Portion diverted through sort		0.00%	0	0	0	0	0
I/C	Portion disposed through sort		0.00%	0	0	0	0	0
I/C	Inert residue disposed post-CT		5.00%	619	624	624	624	1,040
C/C	Percent of Waste Stream Entering CT, 2003		1.93%	12,386				
C/C	Percent of Waste Stream Entering CT, 2004-2010		1.94%		12,484	12,484	12,484	20,807
	Glass							
I/C/C	Percent of Waste Stream, 2003	3.10%	3.87%	24,837				
I/C/C	Percent of Waste Stream, 2004-2010	3.11%	3.86%		24,840	24,840	24,840	41,400
I/C	Portion diverted through sort		75.00%	18,628	18,630	18,630	18,630	31,050
I/C	Portion disposed through sort		20.00%	4,967	4,968	4,968	4,968	8,280
I/C	Inert residue disposed post-CT		5.00%	1,242	1,242	1,242	1,242	2,070
C/C	Percent of Waste Stream Entering CT, 2003		0.19%	1,242				
C/C	Percent of Waste Stream Entering CT, 2004-2010		0.19%		1,242	1,242	1,242	2,070
	Metal							
I/C/C	Percent of Waste Stream, 2003	7.69%	9.60%	61,611				
I/C/C	Percent of Waste Stream, 2004-2010	7.74%	9.60%		61,778	61,778	61,778	102,964
I/C	Portion diverted through sort		75.00%	46,208	46,334	46,334	46,334	77,223
I/C	Portion disposed through sort		20.00%	12,322	12,356	12,356	12,356	20,593
I/C	Inert residue disposed post-CT		5.00%	3,081	3,089	3,089	3,089	5,148
C/C	Percent of Waste Stream Entering CT, 2003		0.48%	3,081				
C/C	Percent of Waste Stream Entering CT, 2004-2010		0.48%		3,089	3,089	3,089	5,148
C	% of Waste Stream Total - 2003	80.13%	99.99%					
C	% of Waste Stream Total - 2004 to 2010	80.61%	100.00%					
	Construction and Demolition (1)							
I	Percent of Waste Stream, 2003	17.16%						
I	Percent of Waste Stream, 2004-2010	17.28%						
	Portion Diverted through sort							
	Portion disposed through sort							
	Portion disposed post-CT							
	Percent of Waste Stream Entering CT, 2003							
	Percent of Waste Stream Entering CT, 2004-2010							
	Household Hazardous Waste (1)							
I	Percent of Waste Stream, 2003	0.20%						
I	Percent of Waste Stream, 2004-2010	0.20%						
	Portion Diverted through sort							
	Portion disposed through sort							
	Portion disposed post-CT							
	Percent of Waste Stream Entering CT, 2003							
	Percent of Waste Stream Entering CT, 2004-2010							
	Special Waste (1)							
I	Percent of Waste Stream, 2003	1.86%						
I	Percent of Waste Stream, 2004-2010	1.89%						
	Portion Diverted through sort							
	Portion disposed through sort							
	Portion disposed post-CT							
	Percent of Waste Stream Entering CT, 2003							
	Percent of Waste Stream Entering CT, 2004-2010							

(1) Loads of these materials are not expected to be brought to conversion technology facilities.

Appendix F

Material Processing at Gasification Facility
Greater Los Angeles Area

I/R/C	Gasification - Greater Los Angeles Area	% of Waste Stream	% of Waste Stream Directed to CT	2003 Tons	2004 Tons	2005-2009 Tons	2010 Tons
C	Total Incoming Tonnage Required			737,681	734,863	918,579	1,102,294
C	Minus Tons Recycled Due to Pre- Processing			62,906	60,681	75,852	91,022
C	Minus Tons Disposed Due to Pre-Processing			16,774	16,182	20,227	24,273
R	Total Incoming Tonnage Through CT Process			658,000	658,000	822,500	987,000
C	Tons Disposed After CT Processing			4,891	4,721	5,902	7,082
C/C	Total Percent Entering CT, 2003		89.20%	658,000			
C/C	Total Percent Entering CT, 2004-2010		89.54%		658,000	822,500	987,000
	Paper						
I/C/C	Percent of Waste Stream, 2003	27.30%	32.48%	239,599			
I/C/C	Percent of Waste Stream, 2004-2010	26.61%	31.51%		231,555	289,444	347,333
I/C	Portion diverted through sort		0.00%	0	0	0	0
I/C	Portion disposed through sort		0.00%	0	0	0	0
I/C	Inert residue disposed post-CT		0.00%	0	0	0	0
C/C	Percent of Waste Stream Entering CT, 2003		32.48%	239,599			
C/C	Percent of Waste Stream Entering CT, 2004-2010		31.51%		231,555	289,444	347,333
	Plastic						
I/C/C	Percent of Waste Stream, 2003	9.63%	11.46%	84,538			
I/C/C	Percent of Waste Stream, 2004-2010	9.88%	11.70%		85,979	107,474	128,968
I/C	Portion diverted through sort		0.00%	0	0	0	0
I/C	Portion disposed through sort		0.00%	0	0	0	0
I/C	Inert residue disposed post-CT		0.00%	0	0	0	0
C/C	Percent of Waste Stream Entering CT, 2003		11.46%	84,538			
C/C	Percent of Waste Stream Entering CT, 2004-2010		11.70%		85,979	107,474	128,968
	Organics						
I/C/C	Percent of Waste Stream, 2003	35.97%	42.80%	315,727			
I/C/C	Percent of Waste Stream, 2004-2010	37.11%	43.94%		322,899	403,624	484,348
I/C	Portion diverted through sort		0.00%	0	0	0	0
I/C	Portion disposed through sort		0.00%	0	0	0	0
I/C	Inert residue disposed post-CT		0.00%	0	0	0	0
C/C	Percent of Waste Stream Entering CT, 2003		42.80%	315,727			
C/C	Percent of Waste Stream Entering CT, 2004-2010		43.94%		322,899	403,624	484,348
	Mixed Residue						
I/C/C	Percent of Waste Stream, 2003	1.59%	1.89%	13,942			
I/C/C	Percent of Waste Stream, 2004-2010	1.55%	1.84%		13,521	16,902	20,282
I/C	Portion diverted through sort		0.00%	0	0	0	0
I/C	Portion disposed through sort		0.00%	0	0	0	0
I/C	Inert residue disposed post-CT		5.00%	697	676	845	1,014
C/C	Percent of Waste Stream Entering CT, 2003		1.89%	13,942			
C/C	Percent of Waste Stream Entering CT, 2004-2010		1.84%		13,521	16,902	20,282
	Glass						
I/C/C	Percent of Waste Stream, 2003	3.19%	3.80%	28,032			
I/C/C	Percent of Waste Stream, 2004-2010	3.11%	3.68%		27,043	33,804	40,564
I/C	Portion diverted through sort		75.00%	21,024	20,282	25,353	30,423
I/C	Portion disposed through sort		20.00%	5,606	5,409	6,761	8,113
I/C	Inert residue disposed post-CT		5.00%	1,402	1,352	1,690	2,028
C/C	Percent of Waste Stream Entering CT, 2003		0.19%	1,402			
C/C	Percent of Waste Stream Entering CT, 2004-2010		0.18%		1,352	1,690	2,028
	Metal						
I/C/C	Percent of Waste Stream, 2003	6.36%	7.57%	55,842			
I/C/C	Percent of Waste Stream, 2004-2010	6.19%	7.33%		53,865	67,332	80,798
I/C	Portion diverted through sort		75.00%	41,882	40,399	50,499	60,599
I/C	Portion disposed through sort		20.00%	11,168	10,773	13,466	16,160
I/C	Inert residue disposed post-CT		5.00%	2,792	2,693	3,367	4,040
C/C	Percent of Waste Stream Entering CT, 2003		0.38%	2,792			
C/C	Percent of Waste Stream Entering CT, 2004-2010		0.37%		2,693	3,367	4,040
C	% of Waste Stream Total - 2003	84.04%	100.00%				
C	% of Waste Stream Total - 2004 to 2010	84.45%	100.00%				
	Construction and Demolition (1)						
I	Percent of Waste Stream, 2003	13.10%					
I	Percent of Waste Stream, 2004-2010	12.76%					
	Household Hazardous Waste (1)						
I	Percent of Waste Stream, 2003	0.22%					
I	Percent of Waste Stream, 2004-2010	0.22%					
	Special Waste (1)						
I	Percent of Waste Stream, 2003	2.66%					
I	Percent of Waste Stream, 2004-2010	2.59%					

(1) Loads of these materials are not expected to be brought to conversion technology facilities.

Appendix F

Material Processing at Gasification Facility
San Francisco Bay Area

I/R/C	Gasification - San Francisco Bay Area	% of Waste Stream	% of Waste Stream Directed to CT	2003 Tons	2004 Tons	2005-2009 Tons	2010 Tons
C	Total Incoming Tonnage Required			754,643	754,475	943,093	1,131,712
C	Minus Tons Recycled Due to Pre- Processing			76,238	76,164	95,206	114,246
C	Minus Tons Disposed Due to Pre-Processing			20,330	20,311	25,388	30,466
R	Total Incoming Tonnage Through CT Process			658,000	658,000	822,500	987,000
C	Tons Disposed After CT Processing			5,810	5,809	7,262	8,714
C/C	Total Percent Entering CT, 2003		87.19%	658,000			
C/C	Total Percent Entering CT, 2004-2010		87.21%		658,000	822,500	987,000
	Paper						
I/C/C	Percent of Waste Stream, 2003	25.77%	32.16%	242,693			
I/C/C	Percent of Waste Stream, 2004-2010	25.46%	31.58%		238,263	297,829	357,395
I/C	Portion diverted through sort		0.00%	0	0	0	0
I/C	Portion disposed through sort		0.00%	0	0	0	0
I/C	Inert residue disposed post-CT		0.00%	0	0	0	0
C/C	Percent of Waste Stream Entering CT, 2003		32.16%	242,693			
C/C	Percent of Waste Stream Entering CT, 2004-2010		31.58%		238,263	297,829	357,395
	Plastic						
I/C/C	Percent of Waste Stream, 2003	8.69%	10.84%	81,803			
I/C/C	Percent of Waste Stream, 2004-2010	8.93%	11.08%		83,596	104,495	125,394
I/C	Portion diverted through sort		0.00%	0	0	0	0
I/C	Portion disposed through sort		0.00%	0	0	0	0
I/C	Inert residue disposed post-CT		0.00%	0	0	0	0
C/C	Percent of Waste Stream Entering CT, 2003		10.84%	81,803			
C/C	Percent of Waste Stream Entering CT, 2004-2010		11.08%		83,596	104,495	125,394
	Organics						
I/C/C	Percent of Waste Stream, 2003	33.33%	41.59%	313,856			
I/C/C	Percent of Waste Stream, 2004-2010	33.81%	41.94%		316,427	395,533	474,640
I/C	Portion diverted through sort		0.00%	0	0	0	0
I/C	Portion disposed through sort		0.00%	0	0	0	0
I/C	Inert residue disposed post-CT		0.00%	0	0	0	0
C/C	Percent of Waste Stream Entering CT, 2003		41.59%	313,856			
C/C	Percent of Waste Stream Entering CT, 2004-2010		41.94%		316,427	395,533	474,640
	Mixed Residue						
I/C/C	Percent of Waste Stream, 2003	1.55%	1.93%	14,565			
I/C/C	Percent of Waste Stream, 2004-2010	1.56%	1.94%		14,637	18,296	21,955
I/C	Portion diverted through sort		0.00%	0	0	0	0
I/C	Portion disposed through sort		0.00%	0	0	0	0
I/C	Inert residue disposed post-CT		5.00%	728	732	915	1,098
C/C	Percent of Waste Stream Entering CT, 2003		1.93%	14,565			
C/C	Percent of Waste Stream Entering CT, 2004-2010		1.94%		14,637	18,296	21,955
	Glass						
I/C/C	Percent of Waste Stream, 2003	3.10%	3.87%	29,205			
I/C/C	Percent of Waste Stream, 2004-2010	3.11%	3.86%		29,123	36,403	43,684
I/C	Portion diverted through sort		75.00%	21,904	21,842	27,303	32,763
I/C	Portion disposed through sort		20.00%	5,841	5,825	7,281	8,737
I/C	Inert residue disposed post-CT		5.00%	1,460	1,456	1,820	2,184
C/C	Percent of Waste Stream Entering CT, 2003		0.19%	1,460			
C/C	Percent of Waste Stream Entering CT, 2004-2010		0.19%		1,456	1,820	2,184
	Metal						
I/C/C	Percent of Waste Stream, 2003	7.69%	9.60%	72,446			
I/C/C	Percent of Waste Stream, 2004-2010	7.74%	9.60%		72,430	90,537	108,644
I/C	Portion diverted through sort		75.00%	54,334	54,322	67,903	81,483
I/C	Portion disposed through sort		20.00%	14,489	14,486	18,107	21,729
I/C	Inert residue disposed post-CT		5.00%	3,622	3,621	4,527	5,432
C/C	Percent of Waste Stream Entering CT, 2003		0.48%	3,622			
C/C	Percent of Waste Stream Entering CT, 2004-2010		0.48%		3,621	4,527	5,432
C	% of Waste Stream Total - 2003	80.13%	99.99%				
C	% of Waste Stream Total - 2004 to 2010	80.61%	100.00%				
	Construction and Demolition (1)						
I	Percent of Waste Stream, 2003	17.16%					
I	Percent of Waste Stream, 2004-2010	17.28%					
	Household Hazardous Waste (1)						
I	Percent of Waste Stream, 2003	0.20%					
I	Percent of Waste Stream, 2004-2010	0.20%					
	Special Waste (1)						
I	Percent of Waste Stream, 2003	1.86%					
I	Percent of Waste Stream, 2004-2010	1.89%					

(1) Loads of these materials are not expected to be brought to conversion technology facilities.