



# Assessment of Long-Term Solid Waste Management Alternatives

## Updated Final Model Report

Sonoma County

Draft Report | March 2009

# Long-Term Solid Waste Management Alternatives Revisions

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## Introduction

In January 2006 HDR completed the Sonoma County Assessment of Long-Term Solid Waste Management Alternatives (Report), dated January 2006 (2006 Report). The 2006 Report included a forecast of economic conditions for four selected long-term disposal system scenarios. The County is in the process of implementing one of the recommendations from the 2006 Report, which is exploring a possible divestiture of the County's solid waste assets. As the divestiture project is brought forward to the County Board of Supervisors for consideration, it is important for the Board of Supervisors to compare the benefits of a divestiture against the other selected alternatives in the 2006 Report. In an effort to make this comparison relevant, County staff requested that HDR update the economic forecast for the four selected long-term disposal system scenarios to reflect current conditions and trends.

This Update to the Economic Model for the Assessment of Long-Term Solid Waste Management Alternatives for Sonoma County provides a description of the changes which were made to the previously prepared economic forecast model, as well as copies of the new model runs for each long-term disposal scenario are included as attachments.

## 1. Revisions to the Assessment of Long-Term Solid Waste Management Alternatives Model (2006 Report)

All four economic forecast models were re-run reflecting four scenarios; two scenarios which model the reopening of the landfill by the County, and two scenarios which model the closure and long-term out-haul of wastes, as follows:

- Scenario 1: Out-haul for five years then reopen the Central landfill using a normal containment system
- Scenario 2: Outhaul for five years, then reopen the Central landfill using a robust containment system
- Scenario 3: Close the Central landfill and export using trucks
- Scenario 4: Close the Central landfill and export using rail

Each of the scenarios was modeled at tonnage assumptions as follows:

- 100% which excludes the City of Petaluma;
- 80%;

- 50% assuming all of the transfer stations remain open; and
- 50% assuming only the Central Transfer station remains open.

The original base year for the analysis, in the 2006 Report, (Fiscal Year 2005/06) was revised to reflect actual data from Fiscal Year (“FY”) 2007/08. In particular, the new base year reflects actual tonnage, costs, and revenues experienced in FY 2007/08.

These changes include:

- Out-haul costs were revised to reflect the actual out-haul costs using transfer trailer trucks (\$13.8M per year) to transport solid waste delivered to County facilities to permitted disposal sites located outside Sonoma County.
- The cost of operations for all of the transfer stations were revised to reflect FY 2007/08 actual expenses.
- Tonnages were lowered to reflect the current FY 2008/09 trend of approximately 270,000 tons per year at the 100% scenario and correspondingly less tonnage with the 80% and 50% scenarios. The waste escalation rate remains at 0.95% per year in this update, this escalation rate is applied to 270,000 annual tons going forward from 2007/2008 FY.

Additional changes made to the 2006 Report include:

- Power Plant revenues for Scenarios 3 and 4 (landfill closure) were reduced to reflect projected landfill gas generation decline. A straight line decline was used for this analysis.
- The diversion rate was adjusted to the 2006 reported rate of 64%. The diversion rate of 70% by 2015 was included in the assumptions.
- The Sonoma County Waste Management Agency surcharge for management of household hazardous waste, education, and planning programs was removed from the modeling.
- Zero waste infrastructure costs were also removed from the model.
- The duration of the model was extended to 2027/28 to reflect a future 20-year analysis.

In addition, changes were made to the 2006 Report reflecting new and/or revised information on costs estimates for the closure of the Central Landfill and the post-closure maintenance of the closed landfills including:

- The Central Landfill post-closure estimates were lowered from \$71M to \$19.8M.

- The post-closure cost estimate for the Central Landfill under the closed landfill scenarios 3 and 4 was revised to reflect revised post-closure funding estimates.
- The other County sites post-closure maintenance costs have been reduced from approximately \$38M to approximately \$36.5M.

The model includes Central closure cost deposits, funded through tipping fees, over a three-year period of \$3,793,979 each fiscal year to the Enterprise Fund (FY 20010/11 through FY 20013/14) to fully fund the estimated cost of closing the Central Landfill.

A more detailed summary of the changes and the reason for the change is illustrated on the following table:

**Comparison of Assumptions of the  
Assessment of Long-Term Solid Waste Management Alternatives  
(BVA, January 2006) to the Update to the Assessment (HDR, December 2008)**

	<b>Assessment of Long-Term Solid Waste Management Alternatives (January 2006) -- General Assumptions</b>	<b>Update of Assessment of Long-Term Solid Waste Management Alternatives (December 2008) -- General Assumptions</b>	<b>Reason(s) for change</b>
1	Funding of SCWMA programs at the FY 2005-06 levels escalated at the assumed inflation rate.	SCWMA programs removed from models.	Both expenditures and revenues for SCWMA diversion and waste reduction programs were removed from the models. SCWMA is looking at alternate funding method(s) other than disposal tipping fees.
2	Funding of zero waste programs.	No funding of zero waste programs.	Zero waste programs have not been pursued by SCWMA due to lack of available funding.
3	Continued operations of 4 transfer stations and use of Central Tipping Building as an out-haul transfer station.	Continued operations of 4 transfer stations and use of Central Tipping Building as an out-haul transfer station. Additionally, a new financial model for the 50% scenario assuming all transfer stations are closed except for Central, was added to this 2009 Update	Updated to most current budget data reflecting an increase of \$417,762 from the original document.
4	Continued funding of administration activities at the FY 2005-06 levels escalated at the assumed inflation rate.	Continued funding of administration activities at the FY 2007-08 levels escalated at the assumed inflation rate.	Updated to most current budget data reflecting an increase of \$110,699 from the 2006 Report.
5	Continued funding of "Other Expenses" including litter control, capital expenditures at the transfer stations and engineering for capital projects at the FY 2005-06 levels escalated at the assumed inflation rate.	Continued funding of "Other Expenses" including litter control and capital expenditures and associated engineering at the transfer stations necessary for regulatory compliance at the FY 2007-08 levels escalated at the assumed inflation rate.	Updated to most current budget data. All discretionary capital projects have been postponed reducing total capital expenditures. As a result "Other Expenses" reflect a decrease from the 2006 Report.

	<b>Assessment of Long-Term Solid Waste Management Alternatives (January 2006) -- General Assumptions</b>	<b>Update of Assessment of Long-Term Solid Waste Management Alternatives (December 2008) -- General Assumptions</b>	<b>Reason(s) for change</b>
6	Revenues based on incoming fees to cover the SCWMA programs and monies from landfill gas-to-energy plant power sales.	Revenues based on incoming fees to cover expenses and monies from landfill gas-to-energy plant power sales. SCWMA expenditures and revenues have been removed.	Updated to most current budget data. FY 08-09 budgeted revenue for power sales is \$3,184,000, a decrease of \$58,000 from the revenue in the original document. Revenues from landfill gas-to-energy plant power sales were adjusted to reflect declining gas volumes over time. SCWMA is looking at alternate funding method(s) other than disposal tipping fees.
7	General inflation rate of 4% per year. This rate is not applied to expenses with specific adjustment rates fixed by contractual provisions (i.e. #9 below).	General inflation rate of 4% per year.	Unchanged.
8	FY 2005-06 disposal tonnage estimates of 372,200 tons inflated by 0.95% per year and diversion rate of about 65% in 2015.	FY 2008/09 disposal tonnage estimates of 270,000 tons inflated by 0.95% per year and diversion rate adjusted to 64% in base year with 70% in 2015.	Updated to most current tonnage estimates for a decrease of 102,000 tons. The actual 2007-08 data is lower than the original projection for 2007-08 and subsequent years. 2006 diversion rate is 64%. Diversion rate in model has been increased to 70% for 2015 per the CoIWMP.
9	Out-haul based on average contractual amounts inflated at 2% per year for the first 5 years.	Out-haul based on current actual contractual amounts inflated at 2% per year.	Per ton out-haul expenses higher given fuel cost inflation included in terms of the agreement. The average per ton cost for out-haul has increased from \$41/ton to \$49/ton due to fuel cost inflation adjustments.
10	\$5 million operating reserve funded from FY 2005-06 through FY 2009-10, then escalated at an interest rate of 5% per year.	\$5 million operating reserve funded from FY 2009-10 to FY 2013-14, then escalated at an interest rate of 5% per year.	The models have been changed to reflect collection of the reserve from FY 2009-10 to FY 2013-14. No deposit to this reserve was made between FY 2005-06 and FY 2009-10. Current and proposed tipping fees do not include the deposit for this \$5 million operating reserve.

	<b>Assessment of Long-Term Solid Waste Management Alternatives (January 2006) -- General Assumptions</b>	<b>Update of Assessment of Long-Term Solid Waste Management Alternatives (December 2008) -- General Assumptions</b>	<b>Reason(s) for change</b>
11	Environmental compliance and associated administration and engineering expenses for the Central Landfill funded at FY 2005-06 levels escalated at the assumed inflation rate.	Environmental compliance and associated administration, and engineering expenses for the Central Landfill funded at FY 2007-08 levels escalated at the assumed inflation rate.	Updated to most current budget data. In Scenarios 3 and 4, expenses for environmental compliance increase in FY 09-10 through FY 14-15 to reflect the phased construction of the Central Landfill closure and the corresponding increase of post-closure maintenance costs for the closed landfill.
12	For Scenarios 1 and 2: Central closure cost assumed at \$44.3 million less contributions to date of approximately \$8.3 million.	For Scenarios 1 and 2: Central closure cost assumed at \$44.3 million less contributions to date of approximately \$9.7 million.	Since Scenarios 1 and 2 assume that the Central Landfill will be reopened and filled to the permitted capacity, the original closure cost estimates remain unchanged. If Central were to reopen, deposits to the closure fund would resume.
13	For Scenarios 3 and 4: Central closure cost assumed at \$27.0 million less contributions to date of approximately \$8.3 million.	Central closure cost assumed at \$21.8 million less contributions to date of approximately \$9.7 million. Deposits to the Central Closure Fund will be budgeted starting in FY 10/11 at \$3.8M per year for 3 years to fully fund closure expenses.	In 2008, the County retained GeoSyntec to reevaluate closure cost estimates. Liabilities for closure and post-closure maintenance of the Central Landfill, which had been estimated at up to \$100M, are now estimated to be approximately \$50M. The \$100M estimates were based on full build-out of the Central Landfill. The revised estimates, as requested by regulatory agencies, are based on the existing configuration of the Central Landfill including the installation of a leachate pipeline to the Santa Rosa Regional Wastewater Treatment Plant (SRRWTP). These estimates are subject to change based on final approval by the regulatory agencies, as well as the fact that they only cover a 30-year horizon.
14	Total post-closure costs of existing closed landfills, not including Central, of approximately \$38 million funded equally over a 30-year period.	Total post-closure costs, not including Central, of approximately \$36.5 million funded equally over a 30-year period.	Minor modifications were made to existing estimates.



	<b>Assessment of Long-Term Solid Waste Management Alternatives (January 2006) -- General Assumptions</b>	<b>Update of Assessment of Long-Term Solid Waste Management Alternatives (December 2008) -- General Assumptions</b>	<b>Reason(s) for change</b>
15	<p>Central post-closure costs are not included in 2006 Report, for Scenarios 1 and 2 only which included reopening the Central Landfill. The remaining permitted capacity of the Central Landfill extended beyond the projected years of the original document, so post-closure costs estimates were not needed. Central post-closure costs of \$65.7M were included in Scenarios 3 and 4 because these scenarios did not include reopening the landfill by the County.</p>	<p>In Scenarios 3 and 4 included a gradual step-down to the final post-closure cost estimate. The step down reflects the fact that the closure construction is proposed to be phased over a 5-year period. . The completion of each phase of the Central closure will gradually reduce the total funding needed for post-closure maintenance for the Central Landfill. Central closure activities will be completed in FY 15-16, at which time the post-closure budget estimate for Central to \$934,798 for that fiscal year.</p>	<p>In 2008, GeoSyntec reevaluated closure cost estimates for the Central Landfill. Liabilities for closure and post-closure maintenance of the Central Landfill, which had been estimated at up to \$100M, are now estimated to be approximately \$50M. The \$100M estimates were based on full build-out of the Central Landfill. The revised estimates, as requested by regulatory agencies, are based on the existing configuration of the Central Landfill including the installation of a leachate pipeline to the SRRWTP. These estimates are subject to change based on covering a 30-year horizon.</p>

The following tables illustrate the five-year average tip fee beginning in year 2008/09 through 2012/13 for each Scenario. The tables summarize the five-year average tip fee for this period for each of the tonnage assumptions (100%, 80% and 50%). The 2006 Report values reflect adjustments to the Model for comparison purposes. The 2006 Report values reflect the removal of Zero waste and Agency programs. The most prominent reason for the increase of the average tip fee is the reduction in the waste tonnage quantity.

**Summary of Economic Scenarios  
Assuming Full System Tonnage**

Scenarios	2006 Report Model 5-year Average Projected Tipping Fee \$/ton	Revised 2009 Model 5-year Average Projected Tipping Fee \$/ton
Scenario 1 - Outhaul for 5 Years then Re-open Central with Normal Containment System	\$ 95	\$ 113
Scenario 2 - Outhaul for 5 Years then Re-open Central with a Robust Containment System	\$ 99	\$ 118
Scenario 3 - Close Central Landfill and Outhaul by Truck	\$ 88	\$ 107
Scenario 4 - Close Central Landfill and Outhaul by Rail	\$ 90	\$ 109

**Summary of Economic Scenarios  
Assuming 80% of System Tonnage**

Scenarios	2006 Model 5-year average tipping fee	Updated 2009 Model 5-year average
Scenario 1 - Outhaul for 5 Years then Re-open Central with Normal Containment System	\$ 103	\$ 131
Scenario 2 - Outhaul for 5 Years then Re-open Central with a Robust Containment System	\$ 107	\$ 137
Scenario 3 - Close Central Landfill and Outhaul by Truck	\$ 95	\$ 113
Scenario 4 - Close Central Landfill and Outhaul by Rail	\$ 97	\$ 115

**Summary of Economic Scenarios  
Assuming 50% System Tonnage**

Scenarios	2006 Model 5-year average tipping fee	Updated 2009 Model, 5-year average	Updated 2009 Model with Central TS only, 5-year average
Scenario 1 - Outhaul for 5 Years then Re-open Central with Normal Containment System	\$ 130	\$ 195	\$ 180
Scenario 2 - Outhaul for 5 Years then Re-open Central with a Robust Containment System	\$ 135	\$ 204	\$ 189
Scenario 3 - Close Central Landfill and Outhaul by Truck	\$ 115	\$ 153	\$ 141
Scenario 4 - Close Central Landfill and Outhaul by Rail	\$ 118	\$ 154	\$ 143

## **Appendices**

### Revisions to the Assessment of Long-Term Solid Waste Management Alternatives Model

- A. 100% Tonnage Case - Detailed Analysis Spreadsheets
- B. 80% Tonnage Case - Detailed Analysis Spreadsheets
- C. 50% Tonnage Case - Detailed Analysis Spreadsheets
- D. 50% Tonnage Central Transfer Station Alone Operating Case – Detailed Analysis Spreadsheet

**A. Revisions to the Assessment of Long-Term Solid Waste Management Alternatives Model**  
**100% Tonnage Case – Detailed Analysis Spreadsheets**

**Sonoma County**  
**Economic Analysis - Full System Tonnage**  
**Scenario 1: Outhaul for 5 Years then Re-open Central with Normal Containment System**

Year Fiscal Year	1 2008-09	2 2009-10	3 2010-11	4 2011-12	5 2012-13	6 2013-14	7 2014-15	8 2015-16	9 2016-17	10 2017-18	11 2018-19	12 2019-20	13 2020-21	14 2021-22	15 2022-23	16 2023-24	17 2024-25	18 2025-26	19 2026-27	20 2027-28
<b>EXPENSES</b>																				
<b>Transfer Stations &amp; Out of County Disposal</b>																				
<b>Operations &amp; Environmental Compliance</b>																				
Central Tipping Building	\$ 1,633,320	\$ 1,698,653	\$ 1,766,599	\$ 1,837,263	\$ 1,910,753	\$ 1,987,184	\$ 2,066,671	\$ 2,149,338	\$ 2,235,311	\$ 2,324,724	\$ 2,417,713	\$ 2,514,421	\$ 2,614,998	\$ 2,719,598	\$ 2,828,382	\$ 2,941,517	\$ 3,059,178	\$ 3,181,545	\$ 3,308,807	\$ 3,441,159
Central Tipping Building - Additional Operations	\$ 1,996,280	\$ 2,076,131	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annapolis	\$ 219,391	\$ 228,167	\$ 237,294	\$ 246,785	\$ 256,657	\$ 266,923	\$ 277,600	\$ 288,704	\$ 300,252	\$ 312,262	\$ 324,753	\$ 337,743	\$ 351,253	\$ 365,303	\$ 379,915	\$ 395,111	\$ 410,916	\$ 427,353	\$ 444,447	\$ 462,225
Guerneville	\$ 426,255	\$ 443,305	\$ 461,038	\$ 479,479	\$ 498,658	\$ 518,605	\$ 539,349	\$ 560,923	\$ 583,360	\$ 606,694	\$ 630,962	\$ 656,200	\$ 682,448	\$ 709,746	\$ 738,136	\$ 767,662	\$ 798,368	\$ 830,303	\$ 863,515	\$ 898,055
Healdsburg	\$ 582,152	\$ 605,438	\$ 629,656	\$ 654,842	\$ 681,036	\$ 708,277	\$ 736,608	\$ 766,072	\$ 796,715	\$ 828,584	\$ 861,727	\$ 896,196	\$ 932,044	\$ 969,326	\$ 1,008,099	\$ 1,048,423	\$ 1,090,360	\$ 1,133,974	\$ 1,179,333	\$ 1,226,507
Sonoma	\$ 262,224	\$ 272,713	\$ 283,621	\$ 294,966	\$ 306,765	\$ 319,035	\$ 331,797	\$ 345,069	\$ 358,871	\$ 373,226	\$ 388,155	\$ 403,681	\$ 419,829	\$ 436,622	\$ 454,087	\$ 472,250	\$ 491,140	\$ 510,786	\$ 531,217	\$ 552,466
<b>Transport to Central</b>																				
Central Tipping Building	\$ -	\$ -	\$ 154,942	\$ 161,139	\$ 167,585	\$ 174,288	\$ 181,260	\$ 188,510	\$ 196,051	\$ 203,893	\$ 212,048	\$ 220,530	\$ 229,351	\$ 238,526	\$ 248,067	\$ 257,989	\$ 268,309	\$ -	\$ -	\$ -
Annapolis	\$ -	\$ -	\$ 31,038	\$ 32,280	\$ 33,571	\$ 34,914	\$ 36,310	\$ 37,763	\$ 39,273	\$ 40,844	\$ 42,478	\$ 44,177	\$ 45,944	\$ 47,782	\$ 49,693	\$ 51,681	\$ 53,748	\$ -	\$ -	\$ -
Guerneville	\$ -	\$ -	\$ 187,608	\$ 195,113	\$ 202,917	\$ 211,034	\$ 219,475	\$ 228,254	\$ 237,384	\$ 246,880	\$ 256,755	\$ 267,025	\$ 277,706	\$ 288,814	\$ 300,367	\$ 312,382	\$ 324,877	\$ -	\$ -	\$ -
Healdsburg	\$ -	\$ -	\$ 656,759	\$ 683,030	\$ 710,351	\$ 738,765	\$ 768,315	\$ 799,048	\$ 831,010	\$ 864,250	\$ 898,820	\$ 934,773	\$ 972,164	\$ 1,011,051	\$ 1,051,493	\$ 1,093,552	\$ 1,137,294	\$ -	\$ -	\$ -
Sonoma	\$ -	\$ -	\$ 474,409	\$ 493,385	\$ 513,121	\$ 533,645	\$ 554,991	\$ 577,191	\$ 600,278	\$ 624,290	\$ 649,261	\$ 675,232	\$ 702,241	\$ 730,331	\$ 759,544	\$ 789,926	\$ 821,523	\$ -	\$ -	\$ -
<b>Out of County Haul and Disposal</b>	\$ 14,005,622	\$ 14,421,449	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Capital Improvements</b>																				
Capital Repairs	\$ 52,000	\$ 54,080	\$ 56,243	\$ 58,493	\$ 60,833	\$ 63,266	\$ 65,797	\$ 68,428	\$ 71,166	\$ 74,012	\$ 76,973	\$ 80,052	\$ 83,254	\$ 86,584	\$ 90,047	\$ 93,649	\$ 97,395	\$ 101,291	\$ 105,342	\$ 109,556
<b>Administration (20% of total)</b>	\$ 542,642	\$ 564,348	\$ 586,922	\$ 610,399	\$ 634,815	\$ 660,208	\$ 686,616	\$ 714,080	\$ 742,644	\$ 772,349	\$ 803,243	\$ 835,373	\$ 868,788	\$ 903,540	\$ 939,681	\$ 977,268	\$ 1,016,359	\$ 1,057,014	\$ 1,099,294	\$ 1,143,266
<b>Total Transfer Station &amp; Out of County Disposal Expenses</b>	\$ 19,719,887	\$ 20,364,284	\$ 5,526,128	\$ 5,747,174	\$ 5,977,061	\$ 6,216,143	\$ 6,464,789	\$ 6,723,380	\$ 6,992,315	\$ 7,272,008	\$ 7,562,888	\$ 7,865,404	\$ 8,180,020	\$ 8,507,221	\$ 8,847,510	\$ 9,201,410	\$ 9,569,466	\$ 7,242,265	\$ 7,531,955	\$ 7,833,233
<b>Disposal</b>																				
<b>Central Landfill</b>																				
Operations	\$ -	\$ -	\$ 8,517,830	\$ 8,942,700	\$ 9,388,762	\$ 9,857,073	\$ 10,348,744	\$ 10,864,939	\$ 11,406,882	\$ 11,975,858	\$ 12,573,214	\$ 13,200,365	\$ 13,858,800	\$ 14,550,077	\$ 15,275,834	\$ 16,037,793	\$ 16,837,758	\$ 17,677,626	\$ 18,559,386	\$ 19,485,128
Environmental Compliance	\$ 4,272,145	\$ 4,443,031	\$ 4,620,752	\$ 4,805,582	\$ 4,997,806	\$ 5,197,718	\$ 5,405,627	\$ 5,621,852	\$ 5,846,726	\$ 6,080,595	\$ 6,323,819	\$ 6,576,771	\$ 6,839,842	\$ 7,113,436	\$ 7,397,973	\$ 7,693,892	\$ 8,001,648	\$ 8,321,714	\$ 8,654,582	\$ 9,000,766
Debt Service	\$ 1,711,306	\$ 1,707,771	\$ 1,710,791	\$ 1,708,461	\$ 1,711,956	\$ 1,710,676	\$ 1,709,870	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Administration & Engineering (30% of total)	\$ 813,964	\$ 846,522	\$ 880,383	\$ 915,598	\$ 952,222	\$ 990,311	\$ 1,029,924	\$ 1,071,121	\$ 1,113,966	\$ 1,158,524	\$ 1,204,865	\$ 1,253,060	\$ 1,303,182	\$ 1,355,309	\$ 1,409,522	\$ 1,465,903	\$ 1,524,539	\$ 1,585,520	\$ 1,648,941	\$ 1,714,899
Containment System	\$ -	\$ -	\$ 5,741,227	\$ 5,741,227	\$ 5,741,227	\$ 5,741,227	\$ 5,741,227	\$ 5,741,227	\$ 5,741,227	\$ 5,741,227	\$ 5,741,227	\$ 5,741,227	\$ 5,741,227	\$ 5,741,227	\$ 5,741,227	\$ 5,741,227	\$ 5,741,227	\$ 5,741,227	\$ 5,741,227	\$ 5,741,227
West Canyon Development	\$ 520,000	\$ 540,800	\$ 3,346,470	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,860,054
<b>Total Disposal Expenses</b>	\$ 7,317,415	\$ 7,538,124	\$ 24,817,454	\$ 22,113,568	\$ 22,791,972	\$ 23,497,005	\$ 24,235,391	\$ 23,299,138	\$ 24,108,800	\$ 24,956,203	\$ 25,843,124	\$ 26,771,423	\$ 27,743,051	\$ 28,760,049	\$ 29,824,556	\$ 30,938,815	\$ 32,105,171	\$ 33,326,086	\$ 34,604,136	\$ 45,802,073
<b>Other</b>																				
Administration (50% of total)	\$ 1,356,606	\$ 1,410,870	\$ 1,467,305	\$ 1,525,997	\$ 1,587,037	\$ 1,650,519	\$ 1,716,540	\$ 1,785,201	\$ 1,856,609	\$ 1,930,874	\$ 2,008,109	\$ 2,088,433	\$ 2,171,970	\$ 2,258,849	\$ 2,349,203	\$ 2,443,171	\$ 2,540,898	\$ 2,642,534	\$ 2,748,235	\$ 2,858,165
Litter Control	\$ 290,480	\$ 302,100	\$ 314,184	\$ 326,751	\$ 339,821	\$ 353,414	\$ 367,550	\$ 382,252	\$ 397,542	\$ 413,444	\$ 429,982	\$ 447,181	\$ 465,068	\$ 483,671	\$ 503,018	\$ 523,139	\$ 544,064	\$ 565,827	\$ 588,460	\$ 611,998
Capital Expenditures at Disposal Sites	\$ 961,538	\$ 1,000,000	\$ 1,040,000	\$ 1,081,600	\$ 1,124,864	\$ 1,169,859	\$ 1,216,653	\$ 1,265,319	\$ 1,315,932	\$ 1,368,569	\$ 1,423,312	\$ 1,480,244	\$ 1,539,454	\$ 1,601,032	\$ 1,665,074	\$ 1,731,676	\$ 1,800,944	\$ 1,872,981	\$ 1,947,900	\$ 2,025,817
Deposit to Operating Reserve	\$ -	\$ 972,342	\$ 250,000	\$ 870,000	\$ 1,025,000	\$ 1,600,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Engineering for Other Capital Projects	\$ 405,468	\$ 421,687	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Other Expenses</b>	\$ 3,014,093	\$ 4,106,999	\$ 3,071,489	\$ 3,804,348	\$ 4,076,722	\$ 4,773,791	\$ 3,300,743	\$ 3,432,772	\$ 3,570,083	\$ 3,712,887	\$ 3,861,402	\$ 4,015,858	\$ 4,176,493	\$ 4,343,552	\$ 4,517,294	\$ 4,697,986	\$ 4,885,906	\$ 5,081,342	\$ 5,284,595	\$ 5,495,979
<b>TOTAL EXPENSES</b>	\$ 30,051,395	\$ 32,009,407	\$ 33,415,071	\$ 31,665,090	\$ 32,845,755	\$ 34,486,939	\$ 34,000,922	\$ 33,455,291	\$ 34,671,199	\$ 35,941,098	\$ 37,267,414	\$ 38,652,685	\$ 40,099,563	\$ 41,610,822	\$ 43,189,360	\$ 44,838,211	\$ 46,560,544	\$ 45,649,693	\$ 47,420,686	\$ 59,131,286

Update of Assessment of Long-Term Solid Waste Management Alternatives,  
Economic Forecast Model Revisions for Sonoma County

Year Fiscal Year	1 2008-09	2 2009-10	3 2010-11	4 2011-12	5 2012-13	6 2013-14	7 2014-15	8 2015-16	9 2016-17	10 2017-18	11 2018-19	12 2019-20	13 2020-21	14 2021-22	15 2022-23	16 2023-24	17 2024-25	18 2025-26	19 2026-27	20 2027-28
<b>REVENUES</b>																				
Power Plant Revenues	\$ 3,202,522	\$ 3,250,560	\$ 3,299,318	\$ 3,348,808	\$ 3,399,040	\$ 3,450,026	\$ 3,501,776	\$ 3,554,303	\$ 3,607,617	\$ 3,661,731	\$ 3,716,657	\$ 3,772,407	\$ 3,828,993	\$ 3,886,428	\$ 3,944,725	\$ 4,003,896	\$ 4,063,954	\$ 4,124,913	\$ 4,186,787	\$ 4,249,589
Other Misc Revenues	\$ 852,600	\$ 865,389	\$ 878,370	\$ 891,545	\$ 904,919	\$ 918,492	\$ 932,270	\$ 946,254	\$ 960,448	\$ 974,854	\$ 989,477	\$ 1,004,319	\$ 1,019,384	\$ 1,034,675	\$ 1,050,195	\$ 1,065,948	\$ 1,081,937	\$ 1,098,166	\$ 1,114,639	\$ 1,131,358
First Year Use of Fund Balance																				
Direct Haul Revenues	\$ -	\$ -		\$ 622,365	\$ 647,259	\$ 673,150	\$ 700,076	\$ 728,079	\$ 757,202	\$ 787,490	\$ 818,990	\$ 851,749	\$ 885,819							
West Expansion - Rock Quarry Royalties																				
<b>TOTAL REVENUES</b>	<b>\$ 4,055,122</b>	<b>\$ 4,115,949</b>	<b>\$ 4,177,688</b>	<b>\$ 4,862,718</b>	<b>\$ 4,951,218</b>	<b>\$ 5,041,668</b>	<b>\$ 5,134,121</b>	<b>\$ 5,228,635</b>	<b>\$ 5,325,267</b>	<b>\$ 5,424,076</b>	<b>\$ 5,525,124</b>	<b>\$ 5,628,476</b>	<b>\$ 5,734,197</b>	<b>\$ 4,921,103</b>	<b>\$ 4,994,920</b>	<b>\$ 5,069,843</b>	<b>\$ 5,145,891</b>	<b>\$ 5,223,079</b>	<b>\$ 5,301,426</b>	<b>\$ 5,380,947</b>
<b>NET EXPENSES</b>																				
<b>Calculated Tipping Fee</b>	<b>\$ 96.28</b>	<b>\$ 102.34</b>	<b>\$ 106.26</b>	<b>\$ 96.49</b>	<b>\$ 99.48</b>	<b>\$ 104.02</b>	<b>\$ 101.02</b>	<b>\$ 97.85</b>	<b>\$ 100.77</b>	<b>\$ 103.81</b>	<b>\$ 106.96</b>	<b>\$ 110.23</b>	<b>\$ 113.63</b>	<b>\$ 120.17</b>	<b>\$ 123.92</b>	<b>\$ 127.81</b>	<b>\$ 131.85</b>	<b>\$ 127.50</b>	<b>\$ 131.58</b>	<b>\$ 166.34</b>
<b>Closure/Post-Closure Expenses</b>																				
Central Closure			\$ 2,785,681	\$ 2,897,108	\$ 3,012,992	\$ 3,133,512	\$ 3,258,853	\$ 3,389,207	\$ 3,524,775	\$ 3,665,766	\$ 3,812,397	\$ 3,964,892	\$ 4,123,488	\$ 4,288,428	\$ 4,459,965	\$ 4,638,363	\$ 4,823,898	\$ 5,016,854	\$ 5,217,528	\$ 5,426,229
Central Post Closure			\$ 743,463	\$ 773,202	\$ 804,130	\$ 836,295	\$ 869,747	\$ 904,537	\$ 940,718	\$ 978,347	\$ 1,017,481	\$ 1,058,180	\$ 1,100,507	\$ 1,144,527	\$ 1,190,308	\$ 1,237,921	\$ 1,287,438	\$ 1,338,935	\$ 1,392,492	\$ 1,448,192
All Other Landfills Post Closure	\$ 1,265,446	\$ 1,316,064	\$ 1,368,707	\$ 1,423,455	\$ 1,480,393	\$ 1,539,609	\$ 1,601,193	\$ 1,665,241	\$ 1,731,850	\$ 1,801,124	\$ 1,873,169	\$ 1,948,096	\$ 2,026,020	\$ 2,107,061	\$ 2,191,343	\$ 2,278,997	\$ 2,370,157	\$ 2,464,963	\$ 2,563,562	\$ 2,666,104
<b>Subtotal Closure/Post-Closure Expenses</b>	<b>\$ 1,265,446</b>	<b>\$ 1,316,064</b>	<b>\$ 4,897,850</b>	<b>\$ 5,093,765</b>	<b>\$ 5,297,515</b>	<b>\$ 5,509,416</b>	<b>\$ 5,729,792</b>	<b>\$ 5,958,984</b>	<b>\$ 6,197,343</b>	<b>\$ 6,445,237</b>	<b>\$ 6,703,047</b>	<b>\$ 6,971,168</b>	<b>\$ 7,250,015</b>	<b>\$ 7,540,016</b>	<b>\$ 7,841,616</b>	<b>\$ 8,155,281</b>	<b>\$ 8,481,492</b>	<b>\$ 8,820,752</b>	<b>\$ 9,173,582</b>	<b>\$ 9,540,525</b>
<b>Calculated Tipping Fee</b>	<b>\$ 100.97</b>	<b>\$ 107.17</b>	<b>\$ 124.06</b>	<b>\$ 114.83</b>	<b>\$ 118.37</b>	<b>\$ 123.48</b>	<b>\$ 121.07</b>	<b>\$ 118.50</b>	<b>\$ 122.05</b>	<b>\$ 125.73</b>	<b>\$ 129.54</b>	<b>\$ 133.50</b>	<b>\$ 137.60</b>	<b>\$ 144.87</b>	<b>\$ 149.36</b>	<b>\$ 154.02</b>	<b>\$ 158.86</b>	<b>\$ 155.31</b>	<b>\$ 160.24</b>	<b>\$ 195.87</b>
<b>Total Expenses Less Revenues w/ Zero Waste</b>	<b>\$ 27,261,719</b>	<b>\$ 29,209,523</b>	<b>\$ 34,135,234</b>	<b>\$ 31,896,137</b>	<b>\$ 33,192,052</b>	<b>\$ 34,954,687</b>	<b>\$ 34,596,593</b>	<b>\$ 34,185,640</b>	<b>\$ 35,543,276</b>	<b>\$ 36,962,259</b>	<b>\$ 38,445,337</b>	<b>\$ 39,995,378</b>	<b>\$ 41,615,382</b>	<b>\$ 44,229,734</b>	<b>\$ 46,036,057</b>	<b>\$ 47,923,648</b>	<b>\$ 49,896,145</b>	<b>\$ 49,247,365</b>	<b>\$ 51,292,843</b>	<b>\$ 63,290,864</b>
<b>Net Present Value (NPV) of Total Expenses Less Revenues</b>																				
<b>Total Expenses Less Revenues w/o Zero Waste</b>	<b>\$ 27,261,719</b>	<b>\$ 29,209,523</b>	<b>\$ 34,135,234</b>	<b>\$ 31,896,137</b>	<b>\$ 33,192,052</b>	<b>\$ 34,954,687</b>	<b>\$ 34,596,593</b>	<b>\$ 34,185,640</b>	<b>\$ 35,543,276</b>	<b>\$ 36,962,259</b>	<b>\$ 38,445,337</b>	<b>\$ 39,995,378</b>	<b>\$ 41,615,382</b>	<b>\$ 44,229,734</b>	<b>\$ 46,036,057</b>	<b>\$ 47,923,648</b>	<b>\$ 49,896,145</b>	<b>\$ 49,247,365</b>	<b>\$ 51,292,843</b>	<b>\$ 63,290,864</b>
<b>Net Present Value (NPV) of Total Expenses Less Revenues</b>																				
<b>Operating Reserves/Fund Balance</b>																				
Year Beginning - Fund Balance	\$2,981,161	\$3,055,690	\$4,128,733	\$4,488,201	\$5,492,156	\$6,680,085	\$8,487,087	\$8,699,264	\$8,916,746	\$9,139,665	\$9,368,156	\$9,602,360	\$9,842,419	\$10,088,480	\$10,340,692	\$10,599,209	\$10,864,189	\$11,135,794	\$11,414,189	\$11,699,543
Operating Reserve Deposit	\$ -	\$ 972,342	\$ 250,000	\$ 870,000	\$ 1,025,000	\$ 1,600,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating Reserve Interest	\$74,529	\$100,701	\$109,468	\$133,955	\$162,929	\$207,002	\$212,177	\$217,482	\$222,919	\$228,492	\$234,204	\$240,059	\$246,060	\$252,212	\$258,517	\$264,980	\$271,605	\$278,395	\$285,355	\$292,489
Operating Reserve	\$3,055,690	\$4,128,733	\$4,488,201	\$5,492,156	\$6,680,085	\$8,487,087	\$8,699,264	\$8,916,746	\$9,139,665	\$9,368,156	\$9,602,360	\$9,842,419	\$10,088,480	\$10,340,692	\$10,599,209	\$10,864,189	\$11,135,794	\$11,414,189	\$11,699,543	\$11,992,032
Year End - Fund Balance	\$3,055,690	\$4,128,733	\$4,488,201	\$5,492,156	\$6,680,085	\$8,487,087	\$8,699,264	\$8,916,746	\$9,139,665	\$9,368,156	\$9,602,360	\$9,842,419	\$10,088,480	\$10,340,692	\$10,599,209	\$10,864,189	\$11,135,794	\$11,414,189	\$11,699,543	\$11,992,032
<b>TONNAGE FLOW</b>																				
Amount of Waste Received at County Facilities	270,000	272,565	275,154	277,768	280,407	283,071	285,760	288,475	291,215	293,982	296,775	299,594	302,440	305,314	308,214	311,142	314,098	317,082	320,094	323,135
Amount to Central	-	-	275,154	277,768	280,407	283,071	285,760	288,475	291,215	293,982	296,775	299,594	302,440	305,314	308,214	311,142	314,098	317,082	320,094	323,135
Total System Waste	270,000	272,565	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Amount Hauled Out of County	270,000	272,565	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Amount Direct Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Original tonnage assumptions	440,333	444,516	448,739	453,002	457,305	461,650	466,035	470,463	474,932	479,444	483,999	488,597	493,238	497,924	502,654	507,430	512,250	517,117	522,029	526,988
<b>Assumptions</b>																				
Annual General Escalation Rate	4.0%																			
Annual Out of County Haul Fee Escalation Rate	2.0%																			
Annual Waste Escalation Rate	0.95%																			
Annual Revenue Increase	1.5%																			
Annual Average County Interest Rate	5.0%																			
PCMP cost per ton per year	\$ 4.69	\$ 4.83	\$ 17.80	\$ 18.34	\$ 18.89	\$ 19.46	\$ 20.05	\$ 20.66	\$ 21.28	\$ 21.92	\$ 22.59	\$ 23.27	\$ 23.97	\$ 24.70	\$ 25.44	\$ 26.21	\$ 27.00	\$ 27.82	\$ 28.66	\$ 29.52

**Sonoma County**  
**Economic Analysis - Full System Tonnage**  
**Scenario 2: Outhaul for 5 Years then Re-open Central with Robust Containment System**

Year Fiscal Year	1 2008-09	2 2009-10	3 2010-11	4 2011-12	5 2012-13	6 2013-14	7 2014-15	8 2015-16	9 2016-17	10 2017-18	11 2018-19	12 2019-20	13 2020-21	14 2021-22	15 2022-23	16 2023-24	17 2024-25	18 2025-26	19 2026-27	20 2027-28
<b>EXPENSES</b>																				
<b>Transfer Stations &amp; Out of County Disposal</b>																				
<b>Operations &amp; Environmental Compliance</b>																				
Central Tipping Building	\$ 1,633,320	\$ 1,698,653	\$ 1,766,599	\$ 1,837,263	\$ 1,910,753	\$ 1,987,184	\$ 2,066,671	\$ 2,149,338	\$ 2,235,311	\$ 2,324,724	\$ 2,417,713	\$ 2,514,421	\$ 2,614,998	\$ 2,719,598	\$ 2,828,382	\$ 2,941,517	\$ 3,059,178	\$ 3,181,545	\$ 3,308,807	\$ 3,441,159
Central Tipping Building - Additional Operations	\$ 1,996,280	\$ 2,076,131	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annapolis	\$ 219,391	\$ 228,167	\$ 237,294	\$ 246,785	\$ 256,657	\$ 266,923	\$ 277,600	\$ 288,704	\$ 300,252	\$ 312,262	\$ 324,753	\$ 337,743	\$ 351,253	\$ 365,303	\$ 379,915	\$ 395,111	\$ 410,916	\$ 427,353	\$ 444,447	\$ 462,225
Guerneville	\$ 426,255	\$ 443,305	\$ 461,038	\$ 479,479	\$ 498,658	\$ 518,605	\$ 539,349	\$ 560,923	\$ 583,360	\$ 606,694	\$ 630,962	\$ 656,200	\$ 682,448	\$ 709,746	\$ 738,136	\$ 767,662	\$ 798,368	\$ 830,303	\$ 863,515	\$ 898,055
Healdsburg	\$ 582,152	\$ 605,438	\$ 629,656	\$ 654,842	\$ 681,036	\$ 708,277	\$ 736,608	\$ 766,072	\$ 796,715	\$ 828,584	\$ 861,727	\$ 896,196	\$ 932,044	\$ 969,326	\$ 1,008,099	\$ 1,048,423	\$ 1,090,360	\$ 1,133,974	\$ 1,179,333	\$ 1,226,507
Sonoma	\$ 262,224	\$ 272,713	\$ 283,621	\$ 294,966	\$ 306,765	\$ 319,035	\$ 331,797	\$ 345,069	\$ 358,871	\$ 373,226	\$ 388,155	\$ 403,681	\$ 419,829	\$ 436,622	\$ 454,087	\$ 472,250	\$ 491,140	\$ 510,786	\$ 531,217	\$ 552,466
<b>Transport to Central</b>																				
Central Tipping Building	\$ -	\$ -	\$ 154,942	\$ 161,139	\$ 167,585	\$ 174,288	\$ 181,260	\$ 188,510	\$ 196,051	\$ 203,893	\$ 212,048	\$ 220,530	\$ 229,351	\$ 238,526	\$ 248,067	\$ 257,989	\$ 268,309	\$ 279,041	\$ 290,203	\$ 301,811
Annapolis	\$ -	\$ -	\$ 31,038	\$ 32,280	\$ 33,571	\$ 34,914	\$ 36,310	\$ 37,763	\$ 39,273	\$ 40,844	\$ 42,478	\$ 44,177	\$ 45,944	\$ 47,782	\$ 49,693	\$ 51,681	\$ 53,748	\$ 55,898	\$ 58,134	\$ 60,459
Guerneville	\$ -	\$ -	\$ 187,608	\$ 195,113	\$ 202,917	\$ 211,034	\$ 219,475	\$ 228,254	\$ 237,384	\$ 246,880	\$ 256,755	\$ 267,025	\$ 277,706	\$ 288,814	\$ 300,367	\$ 312,382	\$ 324,877	\$ 337,872	\$ 351,387	\$ 365,442
Healdsburg	\$ -	\$ -	\$ 656,759	\$ 683,030	\$ 710,351	\$ 738,765	\$ 768,315	\$ 799,048	\$ 831,010	\$ 864,250	\$ 898,820	\$ 934,773	\$ 972,164	\$ 1,011,051	\$ 1,051,493	\$ 1,093,552	\$ 1,137,294	\$ 1,182,786	\$ 1,230,098	\$ 1,279,302
Sonoma	\$ -	\$ -	\$ 474,409	\$ 493,385	\$ 513,121	\$ 533,645	\$ 554,991	\$ 577,191	\$ 600,278	\$ 624,290	\$ 649,261	\$ 675,232	\$ 702,241	\$ 730,331	\$ 759,544	\$ 789,926	\$ 821,523	\$ 854,383	\$ 888,559	\$ 924,101
<b>Out of County Haul and Disposal</b>	\$ 14,005,622	\$ 14,421,449	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Capital Improvements</b>																				
Capital Repairs	\$ 52,000	\$ 54,080	\$ 56,243	\$ 58,493	\$ 60,833	\$ 63,266	\$ 65,797	\$ 68,428	\$ 71,166	\$ 74,012	\$ 76,973	\$ 80,052	\$ 83,254	\$ 86,584	\$ 90,047	\$ 93,649	\$ 97,395	\$ 101,291	\$ 105,342	\$ 109,556
<b>Administration (20% of total)</b>	\$ 542,642	\$ 564,348	\$ 586,922	\$ 610,399	\$ 634,815	\$ 660,208	\$ 686,616	\$ 714,080	\$ 742,644	\$ 772,349	\$ 803,243	\$ 835,373	\$ 868,788	\$ 903,540	\$ 939,681	\$ 977,268	\$ 1,016,359	\$ 1,057,014	\$ 1,099,294	\$ 1,143,266
<b>Total Transfer Station &amp; Out of County Disposal Expenses</b>	\$ 19,719,887	\$ 20,364,284	\$ 5,526,128	\$ 5,747,174	\$ 5,977,061	\$ 6,216,143	\$ 6,464,789	\$ 6,723,380	\$ 6,992,315	\$ 7,272,008	\$ 7,562,888	\$ 7,865,404	\$ 8,180,020	\$ 8,507,221	\$ 8,847,510	\$ 9,201,410	\$ 9,569,466	\$ 9,952,245	\$ 10,350,335	\$ 10,764,348
<b>Disposal</b>																				
<b>Central Landfill</b>																				
Operations	\$ -	\$ -	\$ 8,517,830	\$ 8,942,700	\$ 9,388,762	\$ 9,857,073	\$ 10,348,744	\$ 10,864,939	\$ 11,406,882	\$ 11,975,858	\$ 12,573,214	\$ 13,200,365	\$ 13,858,800	\$ 14,550,077	\$ 15,275,834	\$ 16,037,793	\$ 16,837,758	\$ 17,677,626	\$ 18,559,386	\$ 19,485,128
Environmental Compliance	\$ 4,272,145	\$ 4,443,031	\$ 4,620,752	\$ 4,805,582	\$ 4,997,806	\$ 5,197,718	\$ 5,405,627	\$ 5,621,852	\$ 5,846,726	\$ 6,080,595	\$ 6,323,819	\$ 6,576,771	\$ 6,839,842	\$ 7,113,436	\$ 7,397,973	\$ 7,693,892	\$ 8,001,648	\$ 8,321,714	\$ 8,654,582	\$ 9,000,766
Debt Service	\$ 1,711,306	\$ 1,707,771	\$ 1,710,791	\$ 1,708,461	\$ 1,711,956	\$ 1,710,676	\$ 1,709,870	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Administration & Engineering (30% of total)	\$ 813,964	\$ 846,522	\$ 880,383	\$ 915,598	\$ 952,222	\$ 990,311	\$ 1,029,924	\$ 1,071,121	\$ 1,113,966	\$ 1,158,524	\$ 1,204,865	\$ 1,253,060	\$ 1,303,182	\$ 1,355,309	\$ 1,409,522	\$ 1,465,903	\$ 1,524,539	\$ 1,585,520	\$ 1,648,941	\$ 1,714,899
Containment System	\$ -	\$ -	\$ 7,823,351	\$ 7,823,351	\$ 7,823,351	\$ 7,823,351	\$ 7,823,351	\$ 7,823,351	\$ 7,823,351	\$ 7,823,351	\$ 7,823,351	\$ 7,823,351	\$ 7,823,351	\$ 7,823,351	\$ 7,823,351	\$ 7,823,351	\$ 7,823,351	\$ 7,823,351	\$ 7,823,351	\$ 7,823,351
West Canyon Development	\$ 520,000	\$ 540,800	\$ 3,346,470	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Disposal Expenses</b>	\$ 7,317,415	\$ 7,538,124	\$ 26,899,578	\$ 24,195,692	\$ 24,874,097	\$ 25,579,129	\$ 26,317,515	\$ 25,381,263	\$ 26,190,925	\$ 27,038,328	\$ 27,925,248	\$ 28,853,547	\$ 29,825,175	\$ 30,842,173	\$ 31,906,680	\$ 33,020,939	\$ 34,187,296	\$ 35,408,211	\$ 36,686,260	\$ 47,884,197
<b>Other</b>																				
Administration (50% of total)	\$ 1,356,606	\$ 1,410,870	\$ 1,467,305	\$ 1,525,997	\$ 1,587,037	\$ 1,650,519	\$ 1,716,540	\$ 1,785,201	\$ 1,856,609	\$ 1,930,874	\$ 2,008,109	\$ 2,088,433	\$ 2,171,970	\$ 2,258,849	\$ 2,349,203	\$ 2,443,171	\$ 2,540,898	\$ 2,642,534	\$ 2,748,235	\$ 2,858,165
Litter Control	\$ 290,480	\$ 302,100	\$ 314,184	\$ 326,751	\$ 339,821	\$ 353,414	\$ 367,550	\$ 382,252	\$ 397,542	\$ 413,444	\$ 429,982	\$ 447,181	\$ 465,068	\$ 483,671	\$ 503,018	\$ 523,139	\$ 544,064	\$ 565,827	\$ 588,460	\$ 611,998
Capital Expenditures at Disposal Sites	\$ 961,538	\$ 1,000,000	\$ 1,040,000	\$ 1,081,600	\$ 1,124,864	\$ 1,169,859	\$ 1,216,653	\$ 1,265,319	\$ 1,315,932	\$ 1,368,569	\$ 1,423,312	\$ 1,480,244	\$ 1,539,454	\$ 1,601,032	\$ 1,665,074	\$ 1,731,676	\$ 1,800,944	\$ 1,872,981	\$ 1,947,900	\$ 2,025,817
Deposit to Operating Reserve	\$ -	\$ 972,342	\$ 250,000	\$ 870,000	\$ 1,025,000	\$ 1,600,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Engineering for Other Capital Projects	\$ 405,468	\$ 421,687	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Other Expenses</b>	\$ 3,014,093	\$ 4,106,999	\$ 3,071,489	\$ 3,804,348	\$ 4,076,722	\$ 4,773,791	\$ 3,300,743	\$ 3,432,772	\$ 3,570,083	\$ 3,712,887	\$ 3,861,402	\$ 4,015,858	\$ 4,176,493	\$ 4,343,552	\$ 4,517,294	\$ 4,697,986	\$ 4,885,906	\$ 5,081,342	\$ 5,284,595	\$ 5,495,979
<b>TOTAL EXPENSES</b>	\$ 30,051,395	\$ 32,009,407	\$ 35,497,195	\$ 33,747,214	\$ 34,927,879	\$ 36,569,063	\$ 36,083,047	\$ 35,537,415	\$ 36,753,323	\$ 38,023,222	\$ 39,349,539	\$ 40,734,809	\$ 42,181,687	\$ 43,692,946	\$ 45,271,484	\$ 46,920,335	\$ 48,642,668	\$ 50,441,797	\$ 52,321,190	\$ 64,144,525



Update of Assessment of Long-Term Solid Waste Management Alternatives,  
Economic Forecast Model Revisions for Sonoma County

Year Fiscal Year	1 2008-09	2 2009-10	3 2010-11	4 2011-12	5 2012-13	6 2013-14	7 2014-15	8 2015-16	9 2016-17	10 2017-18	11 2018-19	12 2019-20	13 2020-21	14 2021-22	15 2022-23	16 2023-24	17 2024-25	18 2025-26	19 2026-27	20 2027-28
<b>REVENUES</b>																				
Power Plant Revenues	\$ 3,202,522	\$ 3,250,560	\$ 3,299,318	\$ 3,348,808	\$ 3,399,040	\$ 3,450,026	\$ 3,501,776	\$ 3,554,303	\$ 3,607,617	\$ 3,661,731	\$ 3,716,657	\$ 3,772,407	\$ 3,828,993	\$ 3,886,428	\$ 3,944,725	\$ 4,003,896	\$ 4,063,954	\$ 4,124,913	\$ 4,186,787	\$ 4,249,589
Other Misc Revenues	\$ 852,600	\$ 865,389	\$ 878,370	\$ 891,545	\$ 904,919	\$ 918,492	\$ 932,270	\$ 946,254	\$ 960,448	\$ 974,854	\$ 989,477	\$ 1,004,319	\$ 1,019,384	\$ 1,034,675	\$ 1,050,195	\$ 1,065,948	\$ 1,081,937	\$ 1,098,166	\$ 1,114,639	\$ 1,131,358
First Year Use of Fund Balance																				
Direct Haul Revenues	\$ -	\$ -																		
West Expansion - Rock Quarry Royalties				\$ 622,365	\$ 647,259	\$ 673,150	\$ 700,076	\$ 728,079	\$ 757,202	\$ 787,490	\$ 818,990	\$ 851,749	\$ 885,819							
<b>TOTAL REVENUES</b>	<b>\$ 4,055,122</b>	<b>\$ 4,115,949</b>	<b>\$ 4,177,688</b>	<b>\$ 4,862,718</b>	<b>\$ 4,951,218</b>	<b>\$ 5,041,668</b>	<b>\$ 5,134,121</b>	<b>\$ 5,228,635</b>	<b>\$ 5,325,267</b>	<b>\$ 5,424,076</b>	<b>\$ 5,525,124</b>	<b>\$ 5,628,476</b>	<b>\$ 5,734,197</b>	<b>\$ 4,921,103</b>	<b>\$ 4,994,920</b>	<b>\$ 5,069,843</b>	<b>\$ 5,145,891</b>	<b>\$ 5,223,079</b>	<b>\$ 5,301,426</b>	<b>\$ 5,380,947</b>
<b>NET EXPENSES</b>																				
<b>Calculated Tipping Fee</b>	<b>\$ 96.28</b>	<b>\$ 102.34</b>	<b>\$ 113.83</b>	<b>\$ 103.99</b>	<b>\$ 106.90</b>	<b>\$ 111.38</b>	<b>\$ 108.30</b>	<b>\$ 105.07</b>	<b>\$ 107.92</b>	<b>\$ 110.89</b>	<b>\$ 113.97</b>	<b>\$ 117.18</b>	<b>\$ 120.51</b>	<b>\$ 126.99</b>	<b>\$ 130.68</b>	<b>\$ 134.51</b>	<b>\$ 138.48</b>	<b>\$ 142.61</b>	<b>\$ 146.89</b>	<b>\$ 181.85</b>
<b>Closure/Post-Closure Expenses</b>																				
Central Closure			\$ 2,785,681	\$ 2,897,108	\$ 3,012,992	\$ 3,133,512	\$ 3,258,853	\$ 3,389,207	\$ 3,524,775	\$ 3,665,766	\$ 3,812,397	\$ 3,964,892	\$ 4,123,488	\$ 4,288,428	\$ 4,459,965	\$ 4,638,363	\$ 4,823,898	\$ 5,016,854	\$ 5,217,528	\$ 5,426,229
Central Post Closure			\$ 743,463	\$ 773,202	\$ 804,130	\$ 836,295	\$ 869,747	\$ 904,537	\$ 940,718	\$ 978,347	\$ 1,017,481	\$ 1,058,180	\$ 1,100,507	\$ 1,144,527	\$ 1,190,308	\$ 1,237,921	\$ 1,287,438	\$ 1,338,935	\$ 1,392,492	\$ 1,448,192
All Other Landfills Post Closure	\$ 1,265,446	\$ 1,316,064	\$ 1,368,707	\$ 1,423,455	\$ 1,480,393	\$ 1,539,609	\$ 1,601,193	\$ 1,665,241	\$ 1,731,850	\$ 1,801,124	\$ 1,873,169	\$ 1,948,096	\$ 2,026,020	\$ 2,107,061	\$ 2,191,343	\$ 2,278,997	\$ 2,370,157	\$ 2,464,963	\$ 2,563,562	\$ 2,666,104
<b>Subtotal Closure/Post-Closure Expenses</b>	<b>\$ 1,265,446</b>	<b>\$ 1,316,064</b>	<b>\$ 4,897,850</b>	<b>\$ 5,093,765</b>	<b>\$ 5,297,515</b>	<b>\$ 5,509,416</b>	<b>\$ 5,729,792</b>	<b>\$ 5,958,984</b>	<b>\$ 6,197,343</b>	<b>\$ 6,445,237</b>	<b>\$ 6,703,047</b>	<b>\$ 6,971,168</b>	<b>\$ 7,250,015</b>	<b>\$ 7,540,016</b>	<b>\$ 7,841,616</b>	<b>\$ 8,155,281</b>	<b>\$ 8,481,492</b>	<b>\$ 8,820,752</b>	<b>\$ 9,173,582</b>	<b>\$ 9,540,525</b>
<b>Calculated Tipping Fee</b>	<b>\$ 100.97</b>	<b>\$ 107.17</b>	<b>\$ 131.63</b>	<b>\$ 122.33</b>	<b>\$ 125.80</b>	<b>\$ 130.84</b>	<b>\$ 128.35</b>	<b>\$ 125.72</b>	<b>\$ 129.20</b>	<b>\$ 132.81</b>	<b>\$ 136.56</b>	<b>\$ 140.45</b>	<b>\$ 144.48</b>	<b>\$ 151.69</b>	<b>\$ 156.12</b>	<b>\$ 160.72</b>	<b>\$ 165.48</b>	<b>\$ 170.43</b>	<b>\$ 175.55</b>	<b>\$ 211.38</b>
<b>Total Expenses Less Revenues w/ Zero Waste</b>	<b>\$ 27,261,719</b>	<b>\$ 29,209,523</b>	<b>\$ 36,217,358</b>	<b>\$ 33,978,261</b>	<b>\$ 35,274,177</b>	<b>\$ 37,036,811</b>	<b>\$ 36,678,717</b>	<b>\$ 36,267,764</b>	<b>\$ 37,625,400</b>	<b>\$ 39,044,384</b>	<b>\$ 40,527,461</b>	<b>\$ 42,077,502</b>	<b>\$ 43,697,506</b>	<b>\$ 46,311,859</b>	<b>\$ 48,118,181</b>	<b>\$ 50,005,773</b>	<b>\$ 51,978,269</b>	<b>\$ 54,039,470</b>	<b>\$ 56,193,347</b>	<b>\$ 68,304,103</b>
<b>Net Present Value (NPV) of Total Expenses Less Revenues</b>																				
<b>Total Expenses Less Revenues w/o Zero Waste</b>	<b>\$ 27,261,719</b>	<b>\$ 29,209,523</b>	<b>\$ 36,217,358</b>	<b>\$ 33,978,261</b>	<b>\$ 35,274,177</b>	<b>\$ 37,036,811</b>	<b>\$ 36,678,717</b>	<b>\$ 36,267,764</b>	<b>\$ 37,625,400</b>	<b>\$ 39,044,384</b>	<b>\$ 40,527,461</b>	<b>\$ 42,077,502</b>	<b>\$ 43,697,506</b>	<b>\$ 46,311,859</b>	<b>\$ 48,118,181</b>	<b>\$ 50,005,773</b>	<b>\$ 51,978,269</b>	<b>\$ 54,039,470</b>	<b>\$ 56,193,347</b>	<b>\$ 68,304,103</b>
<b>Net Present Value (NPV) of Total Expenses Less Revenues</b>																				
<b>Operating Reserves/Fund Balance</b>																				
Year Beginning - Fund Balance	\$2,981,161	\$3,055,690	\$4,128,733	\$4,488,201	\$5,492,156	\$6,680,085	\$8,487,087	\$8,699,264	\$8,916,746	\$9,139,665	\$9,368,156	\$9,602,360	\$9,842,419	\$10,088,480	\$10,340,692	\$10,599,209	\$10,864,189	\$11,135,794	\$11,414,189	\$11,699,543
Operating Reserve Deposit	\$ -	\$ 972,342	\$ 250,000	\$ 870,000	\$ 1,025,000	\$ 1,600,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating Reserve Interest	\$74,529	\$100,701	\$109,468	\$133,955	\$162,929	\$207,002	\$212,177	\$217,482	\$222,919	\$228,492	\$234,204	\$240,059	\$246,060	\$252,212	\$258,517	\$264,980	\$271,605	\$278,395	\$285,355	\$292,489
Operating Reserve	\$3,055,690	\$4,128,733	\$4,488,201	\$5,492,156	\$6,680,085	\$8,487,087	\$8,699,264	\$8,916,746	\$9,139,665	\$9,368,156	\$9,602,360	\$9,842,419	\$10,088,480	\$10,340,692	\$10,599,209	\$10,864,189	\$11,135,794	\$11,414,189	\$11,699,543	\$11,992,032
Year End - Fund Balance	\$3,055,690	\$4,128,733	\$4,488,201	\$5,492,156	\$6,680,085	\$8,487,087	\$8,699,264	\$8,916,746	\$9,139,665	\$9,368,156	\$9,602,360	\$9,842,419	\$10,088,480	\$10,340,692	\$10,599,209	\$10,864,189	\$11,135,794	\$11,414,189	\$11,699,543	\$11,992,032
<b>TONNAGE FLOW</b>																				
Amount of Waste Received at County Facilities	270,000	272,565	275,154	277,768	280,407	283,071	285,760	288,475	291,215	293,982	296,775	299,594	302,440	305,314	308,214	311,142	314,098	317,082	320,094	323,135
Amount to Central	-	-	275,154	277,768	280,407	283,071	285,760	288,475	291,215	293,982	296,775	299,594	302,440	305,314	308,214	311,142	314,098	317,082	320,094	323,135
Total System Waste	270,000	272,565	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Amount Hauled Out of County	270,000	272,565	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Amount Direct Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Original tonnage assumptions	440,333	444,516	448,739	453,002	457,305	461,650	466,035	470,463	474,932	479,444	483,999	488,597	493,238	497,924	502,654	507,430	512,250	517,117	522,029	526,988
<b>Assumptions</b>																				
Annual General Escalation Rate	4.0%																			
Annual Out of County Haul Fee Escalation Rate	2.0%																			
Annual Waste Escalation Rate	0.95%																			
Annual Revenue Increase	1.5%																			
Annual Average County Interest Rate	5.0%																			
pcmp cost per ton per year	\$ 4.69	\$ 4.83	\$ 17.80	\$ 18.34	\$ 18.89	\$ 19.46	\$ 20.05	\$ 20.66	\$ 21.28	\$ 21.92	\$ 22.59	\$ 23.27	\$ 23.97	\$ 24.70	\$ 25.44	\$ 26.21	\$ 27.00	\$ 27.82	\$ 28.66	\$ 29.52

**Sonoma County  
Economic Analysis - Full System Tonnage  
Scenario 3: Close Central Landfill and Outhaul**

	Year Fiscal Year	1 2008-09	2 2009-10	3 2010-11	4 2011-12	5 2012-13	6 2013-14	7 2014-15	8 2015-16	9 2016-17	10 2017-18	11 2018-19	12 2019-20	13 2020-21	14 2021-22	15 2022-23	16 2023-24	17 2024-25	18 2025-26	19 2026-27	20 2027-28
<b>EXPENSES</b>																					
<b>Transfer Stations &amp; Out of County Disposal</b>																					
<b>Operations &amp; Environmental Compliance</b>																					
Central Tipping Building	\$	1,633,320	1,698,653	1,766,599	1,837,263	1,910,753	1,987,184	2,066,671	2,149,338	2,235,311	2,324,724	2,417,713	2,514,421	2,614,998	2,719,598	2,828,382	2,941,517	3,059,178	3,181,545	3,308,807	3,441,159
Central Tipping Building - Additional Operations	\$	1,996,280	2,076,131	2,159,176	2,245,544	2,335,365	2,428,780	2,525,931	2,626,968	2,732,047	2,841,329	2,954,982	3,073,181	3,196,109	3,323,953	3,456,911	3,595,188	3,738,995	3,888,555	4,044,097	4,205,861
Annapolis	\$	219,391	228,167	237,294	246,785	256,657	266,923	277,600	288,704	300,252	312,262	324,753	337,743	351,253	365,303	379,915	395,111	410,916	427,353	444,447	462,225
Guerneville	\$	426,255	443,305	461,038	479,479	498,658	518,605	539,349	560,923	583,360	606,694	630,962	656,200	682,448	709,746	738,136	767,662	798,368	830,303	863,515	898,055
Healdsburg	\$	582,152	605,438	629,656	654,842	681,036	708,277	736,608	766,072	796,715	828,584	861,727	896,196	932,044	969,326	1,008,099	1,048,423	1,090,360	1,133,974	1,179,333	1,226,507
Sonoma	\$	262,224	272,713	283,621	294,966	306,765	319,035	331,797	345,069	358,871	373,226	388,155	403,681	419,829	436,622	454,087	472,250	491,140	510,786	531,217	552,466
<b>Out of County Haul and Disposal</b>	\$	14,005,622	14,421,449	14,849,622	15,290,507	15,744,482	16,211,936	16,693,268	17,188,891	17,699,230	18,224,720	18,765,812	19,322,969	19,896,667	20,487,400	21,095,670	21,722,001	22,366,927	23,031,001	23,714,792	24,418,884
<b>Capital Improvements</b>																					
Capital Repairs	\$	52,000	54,080	56,243	58,493	60,833	63,266	65,797	68,428	71,166	74,012	76,973	80,052	83,254	86,584	90,047	93,649	97,395	101,291	105,342	109,556
<b>Administration (20% of total)</b>	\$	542,642	564,348	586,922	610,399	634,815	660,208	686,616	714,080	742,644	772,349	803,243	835,373	868,788	903,540	939,681	977,268	1,016,359	1,057,014	1,099,294	1,143,266
<b>Total Transfer Station &amp; Out of County Disposal Expenses</b>	\$	19,719,887	20,364,284	21,030,171	21,718,278	22,429,364	23,164,213	23,923,636	24,708,474	25,519,596	26,357,900	27,224,320	28,119,817	29,045,390	30,002,071	30,990,928	32,013,069	33,069,638	34,161,821	35,290,844	36,457,978
<b>Disposal</b>																					
<b>Central Landfill</b>																					
Operations	\$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Environmental Compliance	\$	3,152,824	3,247,409	2,726,858	2,245,945	1,772,246	1,310,188	907,571	-	-	-	-	-	-	-	-	-	-	-	-	-
Debt Service	\$	1,711,306	1,707,771	1,710,791	1,708,461	1,711,956	1,710,676	1,709,870	-	-	-	-	-	-	-	-	-	-	-	-	-
Administration & Engineering (30% of total)	\$	813,964	846,522	880,383	915,598	952,222	990,311	1,029,924	1,071,121	1,113,966	1,158,524	1,204,865	1,253,060	1,303,182	1,355,309	1,409,522	1,465,903	1,524,539	1,585,520	1,648,941	1,714,899
Containment System	\$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
West Canyon Development	\$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Disposal Expenses</b>	\$	5,678,094	5,801,702	5,318,032	4,870,004	4,436,424	4,011,175	3,647,365	3,071,121	2,647,966	2,204,865	1,858,524	1,556,142	1,308,182	1,114,811	965,522	831,903	724,539	648,520	594,941	558,899
<b>Other</b>																					
Administration (50% of total)	\$	1,356,606	1,410,870	1,467,305	1,525,997	1,587,037	1,650,519	1,716,540	1,785,201	1,856,609	1,930,874	2,008,109	2,088,433	2,171,970	2,258,849	2,349,203	2,443,171	2,540,898	2,642,534	2,748,235	2,858,165
Litter Control	\$	290,480	302,100	314,184	326,751	339,821	353,414	367,550	382,252	397,542	413,444	429,982	447,181	465,068	483,671	503,018	523,139	544,064	565,827	588,460	611,998
Capital Expenditures at Disposal Sites	\$	961,538	1,000,000	1,040,000	1,081,600	1,124,864	1,169,859	1,216,653	1,265,319	1,315,932	1,368,569	1,423,312	1,480,244	1,539,454	1,601,032	1,665,074	1,731,676	1,800,944	1,872,981	1,947,900	2,025,817
Deposit to Operating Reserve	\$	-	972,342	250,000	870,000	1,025,000	1,600,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Engineering for Other Capital Projects	\$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Other Expenses</b>	\$	2,608,625	3,685,312	3,071,489	3,804,348	4,076,722	4,773,791	3,300,743	3,432,772	3,570,083	3,712,887	3,861,402	4,015,858	4,176,493	4,343,552	4,517,294	4,697,986	4,885,906	5,081,342	5,284,595	5,495,979
<b>TOTAL EXPENSES</b>	\$	28,006,606	29,851,299	29,419,692	30,392,631	30,942,510	31,949,179	30,871,744	29,212,367	30,203,644	31,229,311	32,290,587	33,388,735	34,525,064	35,700,932	36,917,744	38,176,958	39,480,082	40,828,683	42,224,380	43,668,856

Update of Assessment of Long-Term Solid Waste Management Alternatives,  
Economic Forecast Model Revisions for Sonoma County

Year Fiscal Year	1 2008-09	2 2009-10	3 2010-11	4 2011-12	5 2012-13	6 2013-14	7 2014-15	8 2015-16	9 2016-17	10 2017-18	11 2018-19	12 2019-20	13 2020-21	14 2021-22	15 2022-23	16 2023-24	17 2024-25	18 2025-26	19 2026-27	20 2027-28
<b>REVENUES</b>																				
Power Plant Revenues	\$ 3,155,194	\$ 3,085,780	\$ 3,051,073	\$ 3,016,365	\$ 2,981,658	\$ 2,946,951	\$ 2,912,244	\$ 2,877,537	\$ 2,842,830	\$ 2,808,123	\$ 2,773,416	\$ 2,738,708	\$ 2,704,001	\$ 2,669,294	\$ 2,634,587	\$ 2,599,880	\$ 2,565,173	\$ 2,530,466	\$ 2,495,758	\$ 2,461,051
Other Misc Revenues	\$ 852,600	\$ 865,389	\$ 878,370	\$ 891,545	\$ 904,919	\$ 918,492	\$ 932,270	\$ 946,254	\$ 960,448	\$ 974,854	\$ 989,477	\$ 1,004,319	\$ 1,019,384	\$ 1,034,675	\$ 1,050,195	\$ 1,065,948	\$ 1,081,937	\$ 1,098,166	\$ 1,114,639	\$ 1,131,358
First Year Use of Fund Balance																				
Direct Haul Revenues	\$ -	\$ -																		
West Expansion - Rock Quarry Royalties																				
<b>TOTAL REVENUES</b>	<b>\$ 4,007,794</b>	<b>\$ 3,951,169</b>	<b>\$ 3,929,442</b>	<b>\$ 3,907,911</b>	<b>\$ 3,886,577</b>	<b>\$ 3,865,444</b>	<b>\$ 3,844,514</b>	<b>\$ 3,823,791</b>	<b>\$ 3,803,277</b>	<b>\$ 3,782,977</b>	<b>\$ 3,762,893</b>	<b>\$ 3,743,028</b>	<b>\$ 3,723,385</b>	<b>\$ 3,703,969</b>	<b>\$ 3,684,782</b>	<b>\$ 3,665,828</b>	<b>\$ 3,647,110</b>	<b>\$ 3,628,632</b>	<b>\$ 3,610,397</b>	<b>\$ 3,592,410</b>
<b>NET EXPENSES</b>																				
<b>Calculated Tipping Fee</b>	<b>\$ 88.88</b>	<b>\$ 95.02</b>	<b>\$ 92.64</b>	<b>\$ 95.35</b>	<b>\$ 96.49</b>	<b>\$ 99.21</b>	<b>\$ 94.58</b>	<b>\$ 88.01</b>	<b>\$ 90.66</b>	<b>\$ 93.36</b>	<b>\$ 96.13</b>	<b>\$ 98.95</b>	<b>\$ 101.84</b>	<b>\$ 104.80</b>	<b>\$ 107.82</b>	<b>\$ 110.92</b>	<b>\$ 114.08</b>	<b>\$ 117.32</b>	<b>\$ 120.63</b>	<b>\$ 124.02</b>
<b>Closure/Post-Closure Expenses</b>																				
Central Closure			\$ 3,793,979	\$ 3,793,979	\$ 3,793,979															
Central Post Closure			\$ -	\$ -	\$ -	\$ -	\$ -	\$ 934,798	\$ 940,718	\$ 978,347	\$ 1,017,481	\$ 1,058,180	\$ 1,100,507	\$ 1,144,527	\$ 1,190,308	\$ 1,237,921	\$ 1,287,438	\$ 1,338,935	\$ 1,392,492	\$ 1,448,192
All Other Landfills Post Closure	\$ 1,265,446	\$ 1,316,064	\$ 1,368,707	\$ 1,423,455	\$ 1,480,393	\$ 1,539,609	\$ 1,601,193	\$ 1,665,241	\$ 1,731,850	\$ 1,801,124	\$ 1,873,169	\$ 1,948,096	\$ 2,026,020	\$ 2,107,061	\$ 2,191,343	\$ 2,278,997	\$ 2,370,157	\$ 2,464,963	\$ 2,563,562	\$ 2,666,104
<b>Subtotal Closure/Post-Closure Expenses</b>	<b>\$ 1,265,446</b>	<b>\$ 1,316,064</b>	<b>\$ 5,162,686</b>	<b>\$ 5,217,434</b>	<b>\$ 5,274,372</b>	<b>\$ 1,539,609</b>	<b>\$ 1,601,193</b>	<b>\$ 2,600,039</b>	<b>\$ 2,672,568</b>	<b>\$ 2,779,471</b>	<b>\$ 2,890,650</b>	<b>\$ 3,006,276</b>	<b>\$ 3,126,527</b>	<b>\$ 3,251,588</b>	<b>\$ 3,381,652</b>	<b>\$ 3,516,918</b>	<b>\$ 3,657,594</b>	<b>\$ 3,803,898</b>	<b>\$ 3,956,054</b>	<b>\$ 4,114,296</b>
<b>Calculated Tipping Fee</b>	<b>\$ 93.57</b>	<b>\$ 99.85</b>	<b>\$ 111.40</b>	<b>\$ 114.13</b>	<b>\$ 115.30</b>	<b>\$ 104.65</b>	<b>\$ 100.18</b>	<b>\$ 97.02</b>	<b>\$ 99.83</b>	<b>\$ 102.82</b>	<b>\$ 105.87</b>	<b>\$ 108.99</b>	<b>\$ 112.18</b>	<b>\$ 115.45</b>	<b>\$ 118.80</b>	<b>\$ 122.22</b>	<b>\$ 125.73</b>	<b>\$ 129.32</b>	<b>\$ 132.99</b>	<b>\$ 136.76</b>
<b>Total Expenses Less Revenues w/ Zero Waste</b>	<b>\$ 25,264,258</b>	<b>\$ 27,216,194</b>	<b>\$ 30,652,935</b>	<b>\$ 31,702,154</b>	<b>\$ 32,330,306</b>	<b>\$ 29,623,344</b>	<b>\$ 28,628,423</b>	<b>\$ 27,988,615</b>	<b>\$ 29,072,935</b>	<b>\$ 30,225,805</b>	<b>\$ 31,418,344</b>	<b>\$ 32,651,983</b>	<b>\$ 33,928,206</b>	<b>\$ 35,248,551</b>	<b>\$ 36,614,614</b>	<b>\$ 38,028,048</b>	<b>\$ 39,490,567</b>	<b>\$ 41,003,949</b>	<b>\$ 42,570,037</b>	<b>\$ 44,190,743</b>
<b>Net Present Value (NPV) of Total Expenses Less Revenues</b>																				
<b>Total Expenses Less Revenues w/o Zero Waste</b>	<b>\$ 25,264,258</b>	<b>\$ 27,216,194</b>	<b>\$ 30,652,935</b>	<b>\$ 31,702,154</b>	<b>\$ 32,330,306</b>	<b>\$ 29,623,344</b>	<b>\$ 28,628,423</b>	<b>\$ 27,988,615</b>	<b>\$ 29,072,935</b>	<b>\$ 30,225,805</b>	<b>\$ 31,418,344</b>	<b>\$ 32,651,983</b>	<b>\$ 33,928,206</b>	<b>\$ 35,248,551</b>	<b>\$ 36,614,614</b>	<b>\$ 38,028,048</b>	<b>\$ 39,490,567</b>	<b>\$ 41,003,949</b>	<b>\$ 42,570,037</b>	<b>\$ 44,190,743</b>
<b>Net Present Value (NPV) of Total Expenses Less Revenues</b>																				
<b>Operating Reserves/Fund Balance</b>																				
Year Beginning - Fund Balance	\$2,981,161	\$3,019,916	\$4,044,157	\$4,349,981	\$5,287,841	\$6,394,908	\$8,098,842	\$8,204,127	\$8,310,781	\$8,418,821	\$8,528,265	\$8,639,133	\$8,751,442	\$8,865,210	\$8,980,458	\$9,097,204	\$9,215,468	\$9,335,269	\$9,456,627	\$9,579,563
Operating Reserve Deposit	\$ -	\$ 972,342	\$ 250,000	\$ 870,000	\$ 1,025,000	\$ 1,600,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating Reserve Interest	\$38,755	\$51,899	\$55,824	\$67,860	\$82,067	\$103,934	\$105,285	\$106,654	\$108,040	\$109,445	\$110,867	\$112,309	\$113,769	\$115,248	\$116,746	\$118,264	\$119,801	\$121,358	\$122,936	\$124,534
Operating Reserve	\$3,019,916	\$4,044,157	\$4,349,981	\$5,287,841	\$6,394,908	\$8,098,842	\$8,204,127	\$8,310,781	\$8,418,821	\$8,528,265	\$8,639,133	\$8,751,442	\$8,865,210	\$8,980,458	\$9,097,204	\$9,215,468	\$9,335,269	\$9,456,627	\$9,579,563	\$9,704,098
Year End - Fund Balance	\$3,019,916	\$4,044,157	\$4,349,981	\$5,287,841	\$6,394,908	\$8,098,842	\$8,204,127	\$8,310,781	\$8,418,821	\$8,528,265	\$8,639,133	\$8,751,442	\$8,865,210	\$8,980,458	\$9,097,204	\$9,215,468	\$9,335,269	\$9,456,627	\$9,579,563	\$9,704,098
<b>TONNAGE FLOW</b>																				
Amount of Waste Received at County Facilities	270,000	272,565	275,154	277,768	280,407	283,071	285,760	288,475	291,215	293,982	296,775	299,594	302,440	305,314	308,214	311,142	314,098	317,082	320,094	323,135
Amount to Central	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total System Waste	270,000	272,565	275,154	277,768	280,407	283,071	285,760	288,475	291,215	293,982	296,775	299,594	302,440	305,314	308,214	311,142	314,098	317,082	320,094	323,135
Amount Hauled Out of County	270,000	272,565	275,154	277,768	280,407	283,071	285,760	288,475	291,215	293,982	296,775	299,594	302,440	305,314	308,214	311,142	314,098	317,082	320,094	323,135
Amount Direct Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Original tonnage assumptions	440,333	444,516	448,739	453,002	457,305	461,650	466,035	470,463	474,932	479,444	483,999	488,597	493,238	497,924	502,654	507,430	512,250	517,117	522,029	526,988
<b>Assumptions</b>																				
Annual General Escalation Rate	4.0%																			
Annual Out of County Haul Fee Escalation Rate	2.0%																			
Annual Waste Escalation Rate	0.95%																			
Annual Revenue Increase	1.5%																			
LFG Generation (and Revenue) Decrease Rate	2.6%																			
Net Revenue Increase-Revenue Decrease Rate	-1.1%																			
pcm per ton per year	\$ 4.69	\$ 4.83	\$ 18.76	\$ 18.78	\$ 18.81	\$ 5.44	\$ 5.60	\$ 9.01	\$ 9.18	\$ 9.45	\$ 9.74	\$ 10.03	\$ 10.34	\$ 10.65	\$ 10.97	\$ 11.30	\$ 11.64	\$ 12.00	\$ 12.36	\$ 12.73

**Sonoma County**  
**Economic Analysis - Full System Tonnage**  
**Scenario 4: Close Central Landfill and Outhaul via Rail**

Year Fiscal Year	1 2008-09	2 2009-10	3 2010-11	4 2011-12	5 2012-13	6 2013-14	7 2014-15	8 2015-16	9 2016-17	10 2017-18	11 2018-19	12 2019-20	13 2020-21	14 2021-22	15 2022-23	16 2023-24	17 2024-25	18 2025-26	19 2026-27	20 2027-28
<b>EXPENSES</b>																				
<b><u>Transfer Stations &amp; Out of County Disposal</u></b>																				
<b><u>Operations &amp; Environmental Compliance</u></b>																				
Central Tipping Building	\$ 1,633,320	\$ 1,698,653	\$ 1,766,599	\$ 1,837,263	\$ 1,910,753	\$ 1,987,184	\$ 2,066,671	\$ 2,149,338	\$ 2,235,311	\$ 2,324,724	\$ 2,417,713	\$ 2,514,421	\$ 2,614,998	\$ 2,719,598	\$ 2,828,382	\$ 2,941,517	\$ 3,059,178	\$ 3,181,545	\$ 3,308,807	\$ 3,441,159
Central Tipping Building - Additional Operations	\$ 1,996,280	\$ 2,076,131	\$ 2,159,176	\$ 2,245,544	\$ 2,335,365	\$ 2,428,780	\$ 2,525,931	\$ 2,626,968	\$ 2,732,047	\$ 2,841,329	\$ 2,954,982	\$ 3,073,181	\$ 3,196,109	\$ 3,323,953	\$ 3,456,911	\$ 3,595,188	\$ 3,738,995	\$ 3,888,555	\$ 4,044,097	\$ 4,205,861
Annapolis	\$ 219,391	\$ 228,167	\$ 237,294	\$ 246,785	\$ 256,657	\$ 266,923	\$ 277,600	\$ 288,704	\$ 300,252	\$ 312,262	\$ 324,753	\$ 337,743	\$ 351,253	\$ 365,303	\$ 379,915	\$ 395,111	\$ 410,916	\$ 427,353	\$ 444,447	\$ 462,225
Guerneville	\$ 426,255	\$ 443,305	\$ 461,038	\$ 479,479	\$ 498,658	\$ 518,605	\$ 539,349	\$ 560,923	\$ 583,360	\$ 606,694	\$ 630,962	\$ 656,200	\$ 682,448	\$ 709,746	\$ 738,136	\$ 767,662	\$ 798,368	\$ 830,303	\$ 863,515	\$ 898,055
Healdsburg	\$ 582,152	\$ 605,438	\$ 629,656	\$ 654,842	\$ 681,036	\$ 708,277	\$ 736,608	\$ 766,072	\$ 796,715	\$ 828,584	\$ 861,727	\$ 896,196	\$ 932,044	\$ 969,326	\$ 1,008,099	\$ 1,048,423	\$ 1,090,360	\$ 1,133,974	\$ 1,179,333	\$ 1,226,507
Sonoma	\$ 262,224	\$ 272,713	\$ 283,621	\$ 294,966	\$ 306,765	\$ 319,035	\$ 331,797	\$ 345,069	\$ 358,871	\$ 373,226	\$ 388,155	\$ 403,681	\$ 419,829	\$ 436,622	\$ 454,087	\$ 472,250	\$ 491,140	\$ 510,786	\$ 531,217	\$ 552,466
<b>Out of County Rail Haul and Disposal</b>	<b>\$ 14,005,622</b>	<b>\$ 14,421,449</b>	<b>\$ 15,691,594</b>	<b>\$ 16,157,478</b>	<b>\$ 16,637,193</b>	<b>\$ 17,131,152</b>	<b>\$ 17,639,775</b>	<b>\$ 18,163,500</b>	<b>\$ 18,702,775</b>	<b>\$ 19,258,060</b>	<b>\$ 19,829,832</b>	<b>\$ 20,418,580</b>	<b>\$ 21,024,807</b>	<b>\$ 21,649,034</b>	<b>\$ 22,291,794</b>	<b>\$ 22,953,637</b>	<b>\$ 23,635,130</b>	<b>\$ 24,336,857</b>	<b>\$ 25,059,419</b>	<b>\$ 25,803,433</b>
<b><u>Capital Improvements</u></b>																				
Capital Repairs	\$ 52,000	\$ 54,080	\$ 56,243	\$ 58,493	\$ 60,833	\$ 63,266	\$ 65,797	\$ 68,428	\$ 71,166	\$ 74,012	\$ 76,973	\$ 80,052	\$ 83,254	\$ 86,584	\$ 90,047	\$ 93,649	\$ 97,395	\$ 101,291	\$ 105,342	\$ 109,556
<b>Administration (20% of total)</b>	<b>\$ 542,642</b>	<b>\$ 564,348</b>	<b>\$ 586,922</b>	<b>\$ 610,399</b>	<b>\$ 634,815</b>	<b>\$ 660,208</b>	<b>\$ 686,616</b>	<b>\$ 714,080</b>	<b>\$ 742,644</b>	<b>\$ 772,349</b>	<b>\$ 803,243</b>	<b>\$ 835,373</b>	<b>\$ 868,788</b>	<b>\$ 903,540</b>	<b>\$ 939,681</b>	<b>\$ 977,268</b>	<b>\$ 1,016,359</b>	<b>\$ 1,057,014</b>	<b>\$ 1,099,294</b>	<b>\$ 1,143,266</b>
<b>Total Transfer Station &amp; Out of County Disposal Expenses</b>	<b>\$ 19,719,887</b>	<b>\$ 20,364,284</b>	<b>\$ 21,872,143</b>	<b>\$ 22,585,249</b>	<b>\$ 23,322,075</b>	<b>\$ 24,083,429</b>	<b>\$ 24,870,144</b>	<b>\$ 25,683,083</b>	<b>\$ 26,523,141</b>	<b>\$ 27,391,241</b>	<b>\$ 28,288,340</b>	<b>\$ 29,215,428</b>	<b>\$ 30,173,529</b>	<b>\$ 31,163,705</b>	<b>\$ 32,187,052</b>	<b>\$ 33,244,705</b>	<b>\$ 34,337,841</b>	<b>\$ 35,467,677</b>	<b>\$ 36,635,471</b>	<b>\$ 37,842,527</b>
<b><u>Disposal</u></b>																				
<b><u>Central Landfill</u></b>																				
Operations	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Environmental Compliance	\$ 3,152,824	\$ 3,247,409	\$ 2,726,858	\$ 2,245,945	\$ 1,772,246	\$ 1,310,188	\$ 907,571	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ 1,711,306	\$ 1,707,771	\$ 1,710,791	\$ 1,708,461	\$ 1,711,956	\$ 1,710,676	\$ 1,709,870	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Administration & Engineering (30% of total)	\$ 813,964	\$ 846,522	\$ 880,383	\$ 915,598	\$ 952,222	\$ 990,311	\$ 1,029,924	\$ 1,071,121	\$ 1,113,966	\$ 1,158,524	\$ 1,204,865	\$ 1,253,060	\$ 1,303,182	\$ 1,355,309	\$ 1,409,522	\$ 1,465,903	\$ 1,524,539	\$ 1,585,520	\$ 1,648,941	\$ 1,714,899
Containment System	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
West Canyon Development	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Disposal Expenses</b>	<b>\$ 5,678,094</b>	<b>\$ 5,801,702</b>	<b>\$ 5,318,032</b>	<b>\$ 4,870,004</b>	<b>\$ 4,436,424</b>	<b>\$ 4,011,175</b>	<b>\$ 3,647,365</b>	<b>\$ 3,300,000</b>	<b>\$ 3,000,000</b>	<b>\$ 2,750,000</b>	<b>\$ 2,500,000</b>	<b>\$ 2,250,000</b>	<b>\$ 2,000,000</b>	<b>\$ 1,750,000</b>	<b>\$ 1,500,000</b>	<b>\$ 1,250,000</b>	<b>\$ 1,000,000</b>	<b>\$ 750,000</b>	<b>\$ 500,000</b>	<b>\$ 250,000</b>
<b><u>Other</u></b>																				
Administration (50% of total)	\$ 1,356,606	\$ 1,410,870	\$ 1,467,305	\$ 1,525,997	\$ 1,587,037	\$ 1,650,519	\$ 1,716,540	\$ 1,785,201	\$ 1,856,609	\$ 1,930,874	\$ 2,008,109	\$ 2,088,433	\$ 2,171,970	\$ 2,258,849	\$ 2,349,203	\$ 2,443,171	\$ 2,540,898	\$ 2,642,534	\$ 2,748,235	\$ 2,858,165
Litter Control	\$ 290,480	\$ 302,100	\$ 314,184	\$ 326,751	\$ 339,821	\$ 353,414	\$ 367,550	\$ 382,252	\$ 397,542	\$ 413,444	\$ 429,982	\$ 447,181	\$ 465,068	\$ 483,671	\$ 503,018	\$ 523,139	\$ 544,064	\$ 565,827	\$ 588,460	\$ 611,998
Capital Expenditures at Disposal Sites	\$ 961,538	\$ 1,000,000	\$ 1,040,000	\$ 1,081,600	\$ 1,124,864	\$ 1,169,859	\$ 1,216,653	\$ 1,265,319	\$ 1,315,932	\$ 1,368,569	\$ 1,423,312	\$ 1,480,244	\$ 1,539,454	\$ 1,601,032	\$ 1,665,074	\$ 1,731,676	\$ 1,800,944	\$ 1,872,981	\$ 1,947,900	\$ 2,025,817
Deposit to Operating Reserve	\$ -	\$ 972,342	\$ 250,000	\$ 870,000	\$ 1,025,000	\$ 1,600,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Engineering for Other Capital Projects	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Other Expenses</b>	<b>\$ 2,608,625</b>	<b>\$ 3,685,312</b>	<b>\$ 3,071,489</b>	<b>\$ 3,804,348</b>	<b>\$ 4,076,722</b>	<b>\$ 4,773,791</b>	<b>\$ 5,300,743</b>	<b>\$ 5,832,772</b>	<b>\$ 6,370,083</b>	<b>\$ 6,912,887</b>	<b>\$ 7,461,402</b>	<b>\$ 8,015,858</b>	<b>\$ 8,576,493</b>	<b>\$ 9,143,552</b>	<b>\$ 9,725,294</b>	<b>\$ 10,314,986</b>	<b>\$ 10,917,906</b>	<b>\$ 11,533,342</b>	<b>\$ 12,167,595</b>	<b>\$ 12,818,165</b>
<b>TOTAL EXPENSES</b>	<b>\$ 28,006,606</b>	<b>\$ 29,851,299</b>	<b>\$ 30,261,664</b>	<b>\$ 31,259,601</b>	<b>\$ 31,835,222</b>	<b>\$ 32,868,395</b>	<b>\$ 33,818,251</b>	<b>\$ 34,816,976</b>	<b>\$ 35,869,924</b>	<b>\$ 36,984,128</b>	<b>\$ 38,163,582</b>	<b>\$ 39,403,312</b>	<b>\$ 40,688,051</b>	<b>\$ 42,023,507</b>	<b>\$ 43,415,346</b>	<b>\$ 44,850,705</b>	<b>\$ 46,348,886</b>	<b>\$ 47,906,423</b>	<b>\$ 49,523,914</b>	<b>\$ 51,208,855</b>















































Update of Assessment of Long-Term Solid Waste Management Alternatives,  
Economic Forecast Model Revisions for Sonoma County

	Year Fiscal Year	1 2008-09	2 2009-10	3 2010-11	4 2011-12	5 2012-13	6 2013-14	7 2014-15	8 2015-16	9 2016-17	10 2017-18	11 2018-19	12 2019-20	13 2020-21	14 2021-22	15 2022-23	16 2023-24	17 2024-25	18 2025-26	19 2026-27	20 2027-28
<b>REVENUES</b>																					
Power Plant Revenues	\$	3,202,522	\$ 3,250,560	\$ 3,299,318	\$ 3,348,808	\$ 3,399,040	\$ 3,450,026	\$ 3,501,776	\$ 3,554,303	\$ 3,607,617	\$ 3,661,731	\$ 3,716,657	\$ 3,772,407	\$ 3,828,993	\$ 3,886,428	\$ 3,944,725	\$ 4,003,896	\$ 4,063,954	\$ 4,124,913	\$ 4,186,787	\$ 4,249,589
Other Misc Revenues	\$	852,600	\$ 865,389	\$ 878,370	\$ 891,545	\$ 904,919	\$ 918,492	\$ 932,270	\$ 946,254	\$ 960,448	\$ 974,854	\$ 989,477	\$ 1,004,319	\$ 1,019,384	\$ 1,034,675	\$ 1,050,195	\$ 1,065,948	\$ 1,081,937	\$ 1,098,166	\$ 1,114,639	\$ 1,131,358
First Year Use of Fund Balance																					
Direct Haul Revenues	\$	-	\$ -																		
West Expansion - Rock Quarry Royalties					\$ 622,365	\$ 647,259	\$ 673,150	\$ 700,076	\$ 728,079	\$ 757,202	\$ 787,490	\$ 818,990	\$ 851,749	\$ 885,819							
<b>TOTAL REVENUES</b>	<b>\$</b>	<b>4,055,122</b>	<b>\$ 4,115,949</b>	<b>\$ 4,177,688</b>	<b>\$ 4,862,718</b>	<b>\$ 4,951,218</b>	<b>\$ 5,041,668</b>	<b>\$ 5,134,121</b>	<b>\$ 5,228,635</b>	<b>\$ 5,325,267</b>	<b>\$ 5,424,076</b>	<b>\$ 5,525,124</b>	<b>\$ 5,628,476</b>	<b>\$ 5,734,197</b>	<b>\$ 4,921,103</b>	<b>\$ 4,994,920</b>	<b>\$ 5,069,843</b>	<b>\$ 5,145,891</b>	<b>\$ 5,223,079</b>	<b>\$ 5,301,426</b>	<b>\$ 5,380,947</b>
<b>NET EXPENSES</b>																					
<b>Calculated Tipping Fee</b>	<b>\$</b>	<b>122.71</b>	<b>\$ 133.31</b>	<b>\$ 199.12</b>	<b>\$ 178.52</b>	<b>\$ 183.40</b>	<b>\$ 191.35</b>	<b>\$ 184.19</b>	<b>\$ 176.66</b>	<b>\$ 181.28</b>	<b>\$ 186.09</b>	<b>\$ 191.10</b>	<b>\$ 196.32</b>	<b>\$ 201.74</b>	<b>\$ 213.42</b>	<b>\$ 219.47</b>	<b>\$ 225.76</b>	<b>\$ 232.30</b>	<b>\$ 239.10</b>	<b>\$ 246.16</b>	<b>\$ 314.52</b>
<b>Closure/Post-Closure Expenses</b>																					
Central Closure				\$ 2,785,681	\$ 2,897,108	\$ 3,012,992	\$ 3,133,512	\$ 3,258,853	\$ 3,389,207	\$ 3,524,775	\$ 3,665,766	\$ 3,812,397	\$ 3,964,892	\$ 4,123,488	\$ 4,288,428	\$ 4,459,965	\$ 4,638,363	\$ 4,823,898	\$ 5,016,854	\$ 5,217,528	\$ 5,426,229
Central Post Closure				\$ 743,463	\$ 773,202	\$ 804,130	\$ 836,295	\$ 869,747	\$ 904,537	\$ 940,718	\$ 978,347	\$ 1,017,481	\$ 1,058,180	\$ 1,100,507	\$ 1,144,527	\$ 1,190,308	\$ 1,237,921	\$ 1,287,438	\$ 1,338,935	\$ 1,392,492	\$ 1,448,192
All Other Landfills Post Closure	\$	1,265,446	\$ 1,316,064	\$ 1,368,707	\$ 1,423,455	\$ 1,480,393	\$ 1,539,609	\$ 1,601,193	\$ 1,665,241	\$ 1,731,850	\$ 1,801,124	\$ 1,873,169	\$ 1,948,096	\$ 2,026,020	\$ 2,107,061	\$ 2,191,343	\$ 2,278,997	\$ 2,370,157	\$ 2,464,963	\$ 2,563,562	\$ 2,666,104
<b>Subtotal Closure/Post-Closure Expenses</b>	<b>\$</b>	<b>1,265,446</b>	<b>\$ 1,316,064</b>	<b>\$ 4,897,850</b>	<b>\$ 5,093,765</b>	<b>\$ 5,297,515</b>	<b>\$ 5,509,416</b>	<b>\$ 5,729,792</b>	<b>\$ 5,958,984</b>	<b>\$ 6,197,343</b>	<b>\$ 6,445,237</b>	<b>\$ 6,703,047</b>	<b>\$ 6,971,168</b>	<b>\$ 7,250,015</b>	<b>\$ 7,540,016</b>	<b>\$ 7,841,616</b>	<b>\$ 8,155,281</b>	<b>\$ 8,481,492</b>	<b>\$ 8,820,752</b>	<b>\$ 9,173,582</b>	<b>\$ 9,540,525</b>
<b>Calculated Tipping Fee</b>	<b>\$</b>	<b>132.09</b>	<b>\$ 142.97</b>	<b>\$ 234.72</b>	<b>\$ 215.20</b>	<b>\$ 221.18</b>	<b>\$ 230.28</b>	<b>\$ 224.29</b>	<b>\$ 217.97</b>	<b>\$ 223.84</b>	<b>\$ 229.94</b>	<b>\$ 236.28</b>	<b>\$ 242.85</b>	<b>\$ 249.68</b>	<b>\$ 262.81</b>	<b>\$ 270.35</b>	<b>\$ 278.18</b>	<b>\$ 286.31</b>	<b>\$ 294.73</b>	<b>\$ 303.48</b>	<b>\$ 373.57</b>
<b>Total Expenses Less Revenues w/ Zero Waste</b>	<b>\$</b>	<b>17,831,688</b>	<b>\$ 19,484,151</b>	<b>\$ 32,292,177</b>	<b>\$ 29,887,316</b>	<b>\$ 31,010,401</b>	<b>\$ 32,592,833</b>	<b>\$ 32,046,846</b>	<b>\$ 31,439,979</b>	<b>\$ 32,593,335</b>	<b>\$ 33,799,309</b>	<b>\$ 35,060,272</b>	<b>\$ 36,378,700</b>	<b>\$ 37,757,182</b>	<b>\$ 40,119,674</b>	<b>\$ 41,663,351</b>	<b>\$ 43,277,046</b>	<b>\$ 44,963,906</b>	<b>\$ 46,727,223</b>	<b>\$ 48,570,437</b>	<b>\$ 60,357,197</b>
<b>Net Present Value (NPV) of Total Expenses Less Revenues</b>																					
<b>Total Expenses Less Revenues w/o Zero Waste</b>	<b>\$</b>	<b>17,831,688</b>	<b>\$ 19,484,151</b>	<b>\$ 32,292,177</b>	<b>\$ 29,887,316</b>	<b>\$ 31,010,401</b>	<b>\$ 32,592,833</b>	<b>\$ 32,046,846</b>	<b>\$ 31,439,979</b>	<b>\$ 32,593,335</b>	<b>\$ 33,799,309</b>	<b>\$ 35,060,272</b>	<b>\$ 36,378,700</b>	<b>\$ 37,757,182</b>	<b>\$ 40,119,674</b>	<b>\$ 41,663,351</b>	<b>\$ 43,277,046</b>	<b>\$ 44,963,906</b>	<b>\$ 46,727,223</b>	<b>\$ 48,570,437</b>	<b>\$ 60,357,197</b>
<b>Net Present Value (NPV) of Total Expenses Less Revenues</b>																					
<b>Operating Reserves/Fund Balance</b>																					
Year Beginning - Fund Balance	\$	2,981,161	\$ 3,055,690	\$ 4,128,733	\$ 4,488,201	\$ 5,492,156	\$ 6,680,085	\$ 8,487,087	\$ 8,699,264	\$ 8,916,746	\$ 9,139,665	\$ 9,368,156	\$ 9,602,360	\$ 9,842,419	\$ 10,088,480	\$ 10,340,692	\$ 10,599,209	\$ 10,864,189	\$ 11,135,794	\$ 11,414,189	\$ 11,699,543
Operating Reserve Deposit	\$	-	\$ 972,342	\$ 250,000	\$ 870,000	\$ 1,025,000	\$ 1,600,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating Reserve Interest	\$	74,529	\$ 100,701	\$ 109,468	\$ 133,955	\$ 162,929	\$ 207,002	\$ 212,177	\$ 217,482	\$ 222,919	\$ 228,492	\$ 234,204	\$ 240,059	\$ 246,060	\$ 252,212	\$ 258,517	\$ 264,980	\$ 271,605	\$ 278,395	\$ 285,355	\$ 292,489
Operating Reserve	\$	3,055,690	\$ 4,128,733	\$ 4,488,201	\$ 5,492,156	\$ 6,680,085	\$ 8,487,087	\$ 8,699,264	\$ 8,916,746	\$ 9,139,665	\$ 9,368,156	\$ 9,602,360	\$ 9,842,419	\$ 10,088,480	\$ 10,340,692	\$ 10,599,209	\$ 10,864,189	\$ 11,135,794	\$ 11,414,189	\$ 11,699,543	\$ 11,992,032
Year End - Fund Balance	\$	3,055,690	\$ 4,128,733	\$ 4,488,201	\$ 5,492,156	\$ 6,680,085	\$ 8,487,087	\$ 8,699,264	\$ 8,916,746	\$ 9,139,665	\$ 9,368,156	\$ 9,602,360	\$ 9,842,419	\$ 10,088,480	\$ 10,340,692	\$ 10,599,209	\$ 10,864,189	\$ 11,135,794	\$ 11,414,189	\$ 11,699,543	\$ 11,992,032
<b>TONNAGE FLOW</b>																					
Amount of Waste Received at County Facilities		135,000	136,283	137,577	138,884	140,204	141,536	142,880	144,237	145,608	146,991	148,387	149,797	151,220	152,657	154,107	155,571	157,049	158,541	160,047	161,568
Amount to Central		-	-	137,577	138,884	140,204	141,536	142,880	144,237	145,608	146,991	148,387	149,797	151,220	152,657	154,107	155,571	157,049	158,541	160,047	161,568
Total System Waste		135,000	136,283	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Amount Hauled Out of County		135,000	136,283	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Amount Direct Haul		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Original tonnage assumptions		440,333	444,516	448,739	453,002	457,305	461,650	466,035	470,463	474,932	479,444	483,999	488,597	493,238	497,924	502,654	507,430	512,250	517,117	522,029	526,988
<b>Assumptions</b>																					
Annual General Escalation Rate		4.0%																			
Annual Out of County Haul Fee Escalation Rate		2.0%																			
Annual Waste Escalation Rate		0.95%																			
Annual Revenue Increase		1.5%																			
Annual Average County Interest Rate		5.0%																			
PCM per ton per year	\$	9.37	\$ 9.66	\$ 35.60	\$ 36.68	\$ 37.78	\$ 38.93	\$ 40.10	\$ 41.31	\$ 42.56	\$ 43.85	\$ 45.17	\$ 46.54	\$ 47.94	\$ 49.39	\$ 50.88	\$ 52.42	\$ 54.01	\$ 55.64	\$ 57.32	\$ 59.05

**Sonoma County  
Economic Analysis - 50% System Tonnage and Central Transfer Station Alone  
Scenario 3: Close Central Landfill and Outhaul**

Year Fiscal Year	1 2008-09	2 2009-10	3 2010-11	4 2011-12	5 2012-13	6 2013-14	7 2014-15	8 2015-16	9 2016-17	10 2017-18	11 2018-19	12 2019-20	13 2020-21	14 2021-22	15 2022-23	16 2023-24	17 2024-25	18 2025-26	19 2026-27	20 2027-28
<b>EXPENSES</b>																				
<b>Transfer Stations &amp; Out of County Disposal</b>																				
<b>Operations &amp; Environmental Compliance</b>																				
Central Tipping Building	\$ 1,633,320	\$ 1,698,653	\$ 1,766,599	\$ 1,837,263	\$ 1,910,753	\$ 1,987,184	\$ 2,066,671	\$ 2,149,338	\$ 2,235,311	\$ 2,324,724	\$ 2,417,713	\$ 2,514,421	\$ 2,614,998	\$ 2,719,598	\$ 2,828,382	\$ 2,941,517	\$ 3,059,178	\$ 3,181,545	\$ 3,308,807	\$ 3,441,159
Central Tipping Building - Additional Operations	\$ 1,996,280	\$ 2,076,131	\$ 2,159,176	\$ 2,245,544	\$ 2,335,365	\$ 2,428,780	\$ 2,525,931	\$ 2,626,968	\$ 2,732,047	\$ 2,841,329	\$ 2,954,982	\$ 3,073,181	\$ 3,196,109	\$ 3,323,953	\$ 3,456,911	\$ 3,595,188	\$ 3,738,995	\$ 3,888,555	\$ 4,044,097	\$ 4,205,861
<b>Out of County Haul and Disposal</b>	\$ 6,065,613	\$ 6,245,701	\$ 6,431,136	\$ 6,622,076	\$ 6,818,686	\$ 7,021,133	\$ 7,229,590	\$ 7,444,237	\$ 7,665,256	\$ 7,892,837	\$ 8,127,176	\$ 8,368,472	\$ 8,616,931	\$ 8,872,768	\$ 9,136,201	\$ 9,407,454	\$ 9,686,762	\$ 9,974,362	\$ 10,270,501	\$ 10,575,432
<b>Capital Improvements</b>																				
Capital Repairs	\$ 52,000	\$ 54,080	\$ 56,243	\$ 58,493	\$ 60,833	\$ 63,266	\$ 65,797	\$ 68,428	\$ 71,166	\$ 74,012	\$ 76,973	\$ 80,052	\$ 83,254	\$ 86,584	\$ 90,047	\$ 93,649	\$ 97,395	\$ 101,291	\$ 105,342	\$ 109,556
<b>Administration (20% of total)</b>	\$ 542,642	\$ 564,348	\$ 586,922	\$ 610,399	\$ 634,815	\$ 660,208	\$ 686,616	\$ 714,080	\$ 742,644	\$ 772,349	\$ 803,243	\$ 835,373	\$ 868,788	\$ 903,540	\$ 939,681	\$ 977,268	\$ 1,016,359	\$ 1,057,014	\$ 1,099,294	\$ 1,143,266
<b>Total Transfer Station &amp; Out of County Disposal Expenses</b>	\$ 10,289,855	\$ 10,638,913	\$ 11,000,077	\$ 11,373,775	\$ 11,760,452	\$ 12,160,569	\$ 12,574,604	\$ 13,003,051	\$ 13,446,423	\$ 13,905,252	\$ 14,380,086	\$ 14,871,499	\$ 15,380,080	\$ 15,906,442	\$ 16,451,222	\$ 17,015,077	\$ 17,598,689	\$ 18,202,766	\$ 18,828,041	\$ 19,475,273
<b>Disposal</b>																				
<b>Central Landfill</b>																				
Operations	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Environmental Compliance	\$ 3,152,824	\$ 3,247,409	\$ 2,726,858	\$ 2,245,945	\$ 1,772,246	\$ 1,310,188	\$ 907,571	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ 1,711,306	\$ 1,707,771	\$ 1,710,791	\$ 1,708,461	\$ 1,711,956	\$ 1,710,676	\$ 1,709,870	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Administration & Engineering (30% of total)	\$ 813,964	\$ 846,522	\$ 880,383	\$ 915,598	\$ 952,222	\$ 990,311	\$ 1,029,924	\$ 1,071,121	\$ 1,113,966	\$ 1,158,524	\$ 1,204,865	\$ 1,253,060	\$ 1,303,182	\$ 1,355,309	\$ 1,409,522	\$ 1,465,903	\$ 1,524,539	\$ 1,585,520	\$ 1,648,941	\$ 1,714,899
Containment System	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
West Canyon Development	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Disposal Expenses</b>	\$ 5,678,094	\$ 5,801,702	\$ 5,318,032	\$ 4,870,004	\$ 4,436,424	\$ 4,011,175	\$ 3,647,365	\$ 3,071,121	\$ 2,113,966	\$ 1,158,524	\$ 1,204,865	\$ 1,253,060	\$ 1,303,182	\$ 1,355,309	\$ 1,409,522	\$ 1,465,903	\$ 1,524,539	\$ 1,585,520	\$ 1,648,941	\$ 1,714,899
<b>Other</b>																				
Administration (50% of total)	\$ 1,356,606	\$ 1,410,870	\$ 1,467,305	\$ 1,525,997	\$ 1,587,037	\$ 1,650,519	\$ 1,716,540	\$ 1,785,201	\$ 1,856,609	\$ 1,930,874	\$ 2,008,109	\$ 2,088,433	\$ 2,171,970	\$ 2,258,849	\$ 2,349,203	\$ 2,443,171	\$ 2,540,898	\$ 2,642,534	\$ 2,748,235	\$ 2,858,165
Litter Control	\$ 290,480	\$ 302,100	\$ 314,184	\$ 326,751	\$ 339,821	\$ 353,414	\$ 367,550	\$ 382,252	\$ 397,542	\$ 413,444	\$ 429,982	\$ 447,181	\$ 465,068	\$ 483,671	\$ 503,018	\$ 523,139	\$ 544,064	\$ 565,827	\$ 588,460	\$ 611,998
Capital Expenditures at Disposal Sites	\$ 961,538	\$ 1,000,000	\$ 1,040,000	\$ 1,081,600	\$ 1,124,864	\$ 1,169,859	\$ 1,216,653	\$ 1,265,319	\$ 1,315,932	\$ 1,368,569	\$ 1,423,312	\$ 1,480,244	\$ 1,539,454	\$ 1,601,032	\$ 1,665,074	\$ 1,731,676	\$ 1,800,944	\$ 1,872,981	\$ 1,947,900	\$ 2,025,817
Deposit to Operating Reserve	\$ -	\$ 972,342	\$ 250,000	\$ 870,000	\$ 1,025,000	\$ 1,600,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Engineering for Other Capital Projects	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Other Expenses</b>	\$ 2,608,625	\$ 3,685,312	\$ 3,071,489	\$ 3,804,348	\$ 4,076,722	\$ 4,773,791	\$ 3,300,743	\$ 3,432,772	\$ 3,570,083	\$ 3,712,887	\$ 3,861,402	\$ 4,015,858	\$ 4,176,493	\$ 4,343,552	\$ 4,517,294	\$ 4,697,986	\$ 4,885,906	\$ 5,081,342	\$ 5,284,595	\$ 5,495,979
<b>TOTAL EXPENSES</b>	\$ 18,576,574	\$ 20,125,927	\$ 19,389,597	\$ 20,048,127	\$ 20,273,599	\$ 20,945,536	\$ 19,522,712	\$ 17,506,945	\$ 18,130,472	\$ 18,776,662	\$ 19,446,354	\$ 20,140,417	\$ 20,859,754	\$ 21,605,304	\$ 22,378,038	\$ 23,178,965	\$ 24,009,133	\$ 24,869,628	\$ 25,761,577	\$ 26,686,152

Update of Assessment of Long-Term Solid Waste Management Alternatives,  
Economic Forecast Model Revisions for Sonoma County

Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Fiscal Year	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28
<b>REVENUES</b>																				
Power Plant Revenues	\$ 3,155,194	\$ 3,085,780	\$ 3,051,073	\$ 3,016,365	\$ 2,981,658	\$ 2,946,951	\$ 2,912,244	\$ 2,877,537	\$ 2,842,830	\$ 2,808,123	\$ 2,773,416	\$ 2,738,708	\$ 2,704,001	\$ 2,669,294	\$ 2,634,587	\$ 2,599,880	\$ 2,565,173	\$ 2,530,466	\$ 2,495,758	\$ 2,461,051
Other Misc Revenues	\$ 852,600	\$ 865,389	\$ 878,370	\$ 891,545	\$ 904,919	\$ 918,492	\$ 932,270	\$ 946,254	\$ 960,448	\$ 974,854	\$ 989,477	\$ 1,004,319	\$ 1,019,384	\$ 1,034,675	\$ 1,050,195	\$ 1,065,948	\$ 1,081,937	\$ 1,098,166	\$ 1,114,639	\$ 1,131,358
First Year Use of Fund Balance																				
Direct Haul Revenues	\$ -	\$ -																		
West Expansion - Rock Quarry Royalties																				
<b>TOTAL REVENUES</b>	<b>\$ 4,007,794</b>	<b>\$ 3,951,169</b>	<b>\$ 3,929,442</b>	<b>\$ 3,907,911</b>	<b>\$ 3,886,577</b>	<b>\$ 3,865,444</b>	<b>\$ 3,844,514</b>	<b>\$ 3,823,791</b>	<b>\$ 3,803,277</b>	<b>\$ 3,782,977</b>	<b>\$ 3,762,893</b>	<b>\$ 3,743,028</b>	<b>\$ 3,723,385</b>	<b>\$ 3,703,969</b>	<b>\$ 3,684,782</b>	<b>\$ 3,665,828</b>	<b>\$ 3,647,110</b>	<b>\$ 3,628,632</b>	<b>\$ 3,610,397</b>	<b>\$ 3,592,410</b>
<b>NET EXPENSES</b>																				
Calculated Tipping Fee	\$ 107.92	\$ 118.69	\$ 112.37	\$ 116.21	\$ 116.88	\$ 120.68	\$ 109.73	\$ 94.87	\$ 98.40	\$ 102.00	\$ 105.69	\$ 109.46	\$ 113.32	\$ 117.27	\$ 121.30	\$ 125.43	\$ 129.65	\$ 133.98	\$ 138.40	\$ 142.94
<b>Closure/Post-Closure Expenses</b>																				
Central Closure			\$ 3,793,979	\$ 3,793,979	\$ 3,793,979			\$ 934,798	\$ 940,718	\$ 978,347	\$ 1,017,481	\$ 1,058,180	\$ 1,100,507	\$ 1,144,527	\$ 1,190,308	\$ 1,237,921	\$ 1,287,438	\$ 1,338,935	\$ 1,392,492	\$ 1,448,192
Central Post Closure			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
All Other Landfills Post Closure	\$ 1,265,446	\$ 1,316,064	\$ 1,368,707	\$ 1,423,455	\$ 1,480,393	\$ 1,539,609	\$ 1,601,193	\$ 1,665,241	\$ 1,731,850	\$ 1,801,124	\$ 1,873,169	\$ 1,948,096	\$ 2,026,020	\$ 2,107,061	\$ 2,191,343	\$ 2,278,997	\$ 2,370,157	\$ 2,464,963	\$ 2,563,562	\$ 2,666,104
<b>Subtotal Closure/Post-Closure Expenses</b>	<b>\$ 1,265,446</b>	<b>\$ 1,316,064</b>	<b>\$ 5,162,686</b>	<b>\$ 5,217,434</b>	<b>\$ 5,274,372</b>	<b>\$ 1,539,609</b>	<b>\$ 1,601,193</b>	<b>\$ 2,600,039</b>	<b>\$ 2,672,568</b>	<b>\$ 2,779,471</b>	<b>\$ 2,890,650</b>	<b>\$ 3,006,276</b>	<b>\$ 3,126,527</b>	<b>\$ 3,251,588</b>	<b>\$ 3,381,652</b>	<b>\$ 3,516,918</b>	<b>\$ 3,657,594</b>	<b>\$ 3,803,898</b>	<b>\$ 3,956,054</b>	<b>\$ 4,114,296</b>
Calculated Tipping Fee	\$ 117.29	\$ 128.34	\$ 149.90	\$ 153.78	\$ 154.50	\$ 131.55	\$ 120.94	\$ 112.89	\$ 116.75	\$ 120.91	\$ 125.17	\$ 129.53	\$ 134.00	\$ 138.57	\$ 143.24	\$ 148.04	\$ 152.94	\$ 157.97	\$ 163.12	\$ 168.40
<b>Total Expenses Less Revenues w/ Zero Waste</b>	<b>\$ 15,834,226</b>	<b>\$ 17,490,823</b>	<b>\$ 20,622,841</b>	<b>\$ 21,357,651</b>	<b>\$ 21,661,394</b>	<b>\$ 18,619,701</b>	<b>\$ 17,279,391</b>	<b>\$ 16,283,193</b>	<b>\$ 16,999,763</b>	<b>\$ 17,773,157</b>	<b>\$ 18,574,111</b>	<b>\$ 19,403,665</b>	<b>\$ 20,262,896</b>	<b>\$ 21,152,923</b>	<b>\$ 22,074,908</b>	<b>\$ 23,030,055</b>	<b>\$ 24,019,618</b>	<b>\$ 25,044,894</b>	<b>\$ 26,107,234</b>	<b>\$ 27,208,038</b>
<b>Net Present Value (NPV) of Total Expenses Less Revenues</b>																				
<b>Total Expenses Less Revenues w/o Zero Waste</b>	<b>\$ 15,834,226</b>	<b>\$ 17,490,823</b>	<b>\$ 20,622,841</b>	<b>\$ 21,357,651</b>	<b>\$ 21,661,394</b>	<b>\$ 18,619,701</b>	<b>\$ 17,279,391</b>	<b>\$ 16,283,193</b>	<b>\$ 16,999,763</b>	<b>\$ 17,773,157</b>	<b>\$ 18,574,111</b>	<b>\$ 19,403,665</b>	<b>\$ 20,262,896</b>	<b>\$ 21,152,923</b>	<b>\$ 22,074,908</b>	<b>\$ 23,030,055</b>	<b>\$ 24,019,618</b>	<b>\$ 25,044,894</b>	<b>\$ 26,107,234</b>	<b>\$ 27,208,038</b>
<b>Net Present Value (NPV) of Total Expenses Less Revenues</b>																				
<b>Operating Reserves/Fund Balance</b>																				
Year Beginning - Fund Balance	\$2,981,161	\$3,019,916	\$4,044,157	\$4,349,981	\$5,287,841	\$6,394,908	\$8,098,842	\$8,204,127	\$8,310,781	\$8,418,821	\$8,528,265	\$8,639,133	\$8,751,442	\$8,865,210	\$8,980,458	\$9,097,204	\$9,215,468	\$9,335,269	\$9,456,627	\$9,579,563
Operating Reserve Deposit	\$ -	\$ 972,342	\$ 250,000	\$ 870,000	\$ 1,025,000	\$ 1,600,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating Reserve Interest	\$38,755	\$51,899	\$55,824	\$67,860	\$82,067	\$103,934	\$105,285	\$106,654	\$108,040	\$109,445	\$110,867	\$112,309	\$113,769	\$115,248	\$116,746	\$118,264	\$119,801	\$121,358	\$122,936	\$124,534
Operating Reserve	\$3,019,916	\$4,044,157	\$4,349,981	\$5,287,841	\$6,394,908	\$8,098,842	\$8,204,127	\$8,310,781	\$8,418,821	\$8,528,265	\$8,639,133	\$8,751,442	\$8,865,210	\$8,980,458	\$9,097,204	\$9,215,468	\$9,335,269	\$9,456,627	\$9,579,563	\$9,704,098
Year End - Fund Balance	\$3,019,916	\$4,044,157	\$4,349,981	\$5,287,841	\$6,394,908	\$8,098,842	\$8,204,127	\$8,310,781	\$8,418,821	\$8,528,265	\$8,639,133	\$8,751,442	\$8,865,210	\$8,980,458	\$9,097,204	\$9,215,468	\$9,335,269	\$9,456,627	\$9,579,563	\$9,704,098
<b>TONNAGE FLOW</b>																				
Amount of Waste Received at County Facilities	135,000	136,283	137,577	138,884	140,204	141,536	142,880	144,237	145,608	146,991	148,387	149,797	151,220	152,657	154,107	155,571	157,049	158,541	160,047	161,568
Amount to Central	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total System Waste	135,000	136,283	137,577	138,884	140,204	141,536	142,880	144,237	145,608	146,991	148,387	149,797	151,220	152,657	154,107	155,571	157,049	158,541	160,047	161,568
Amount Hauled Out of County	135,000	136,283	137,577	138,884	140,204	141,536	142,880	144,237	145,608	146,991	148,387	149,797	151,220	152,657	154,107	155,571	157,049	158,541	160,047	161,568
Amount Direct Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Original tonnage assumptions	440,333	444,516	448,739	453,002	457,305	461,650	466,035	470,463	474,932	479,444	483,999	488,597	493,238	497,924	502,654	507,430	512,250	517,117	522,029	526,988
<b>Assumptions</b>																				
Annual General Escalation Rate	4.0%																			
Annual Out of County Haul Fee Escalation Rate	2.0%																			
Annual Waste Escalation Rate	0.95%																			
Annual Revenue Increase	1.5%																			
LFG Generation (and Revenue) Decrease Rate	2.6%																			
Net Revenue Increase-Revenue Decrease Rate	-1.1%																			
PCM per ton per year	\$ 9.37	\$ 9.66	\$ 37.53	\$ 37.57	\$ 37.62	\$ 10.88	\$ 11.21	\$ 18.03	\$ 18.35	\$ 18.91	\$ 19.48	\$ 20.07	\$ 20.68	\$ 21.30	\$ 21.94	\$ 22.61	\$ 23.29	\$ 23.99	\$ 24.72	\$ 25.46

**Sonoma County  
Economic Analysis - 50% System Tonnage and Central Transfer Station Alone  
Scenario 4: Close Central Landfill and Outhaul via Rail**

Year Fiscal Year	1 2008-09	2 2009-10	3 2010-11	4 2011-12	5 2012-13	6 2013-14	7 2014-15	8 2015-16	9 2016-17	10 2017-18	11 2018-19	12 2019-20	13 2020-21	14 2021-22	15 2022-23	16 2023-24	17 2024-25	18 2025-26	19 2026-27	20 2027-28
<b>EXPENSES</b>																				
<b>Transfer Stations &amp; Out of County Disposal</b>																				
<b>Operations &amp; Environmental Compliance</b>																				
Central Tipping Building	\$ 1,633,320	\$ 1,698,653	\$ 1,766,599	\$ 1,837,263	\$ 1,910,753	\$ 1,987,184	\$ 2,066,671	\$ 2,149,338	\$ 2,235,311	\$ 2,324,724	\$ 2,417,713	\$ 2,514,421	\$ 2,614,998	\$ 2,719,598	\$ 2,828,382	\$ 2,941,517	\$ 3,059,178	\$ 3,181,545	\$ 3,308,807	\$ 3,441,159
Central Tipping Building - Additional Operations	\$ 1,996,280	\$ 2,076,131	\$ 2,159,176	\$ 2,245,544	\$ 2,335,365	\$ 2,428,780	\$ 2,525,931	\$ 2,626,968	\$ 2,732,047	\$ 2,841,329	\$ 2,954,982	\$ 3,073,181	\$ 3,196,109	\$ 3,323,953	\$ 3,456,911	\$ 3,595,188	\$ 3,738,995	\$ 3,888,555	\$ 4,044,097	\$ 4,205,861
<b>Out of County Rail Haul and Disposal</b>	\$ 6,065,613	\$ 6,245,701	\$ 6,852,122	\$ 7,055,562	\$ 7,265,041	\$ 7,480,740	\$ 7,702,844	\$ 7,931,541	\$ 8,167,029	\$ 8,409,508	\$ 8,659,186	\$ 8,916,277	\$ 9,181,001	\$ 9,453,585	\$ 9,734,262	\$ 10,023,273	\$ 10,320,863	\$ 10,627,290	\$ 10,942,814	\$ 11,267,706
<b>Capital Improvements</b>																				
Capital Repairs	\$ 52,000	\$ 54,080	\$ 56,243	\$ 58,493	\$ 60,833	\$ 63,266	\$ 65,797	\$ 68,428	\$ 71,166	\$ 74,012	\$ 76,973	\$ 80,052	\$ 83,254	\$ 86,584	\$ 90,047	\$ 93,649	\$ 97,395	\$ 101,291	\$ 105,342	\$ 109,556
<b>Administration (20% of total)</b>	\$ 542,642	\$ 564,348	\$ 586,922	\$ 610,399	\$ 634,815	\$ 660,208	\$ 686,616	\$ 714,080	\$ 742,644	\$ 772,349	\$ 803,243	\$ 835,373	\$ 868,788	\$ 903,540	\$ 939,681	\$ 977,268	\$ 1,016,359	\$ 1,057,014	\$ 1,099,294	\$ 1,143,266
<b>Total Transfer Station &amp; Out of County Disposal Expenses</b>	\$ 10,289,855	\$ 10,638,913	\$ 11,421,063	\$ 11,807,260	\$ 12,206,808	\$ 12,620,177	\$ 13,047,858	\$ 13,490,356	\$ 13,948,196	\$ 14,421,922	\$ 14,912,097	\$ 15,419,304	\$ 15,944,150	\$ 16,487,260	\$ 17,049,283	\$ 17,630,895	\$ 18,232,790	\$ 18,855,694	\$ 19,500,354	\$ 20,167,548
<b>Disposal</b>																				
<b>Central Landfill</b>																				
Operations	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Environmental Compliance	\$ 3,152,824	\$ 3,247,409	\$ 2,726,858	\$ 2,245,945	\$ 1,772,246	\$ 1,310,188	\$ 907,571	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Debt Service	\$ 1,711,306	\$ 1,707,771	\$ 1,710,791	\$ 1,708,461	\$ 1,711,956	\$ 1,710,676	\$ 1,709,870	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Administration & Engineering (30% of total)	\$ 813,964	\$ 846,522	\$ 880,383	\$ 915,598	\$ 952,222	\$ 990,311	\$ 1,029,924	\$ 1,071,121	\$ 1,113,966	\$ 1,158,524	\$ 1,204,865	\$ 1,253,060	\$ 1,303,182	\$ 1,355,309	\$ 1,409,522	\$ 1,465,903	\$ 1,524,539	\$ 1,585,520	\$ 1,648,941	\$ 1,714,899
Containment System	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
West Canyon Development	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Disposal Expenses</b>	\$ 5,678,094	\$ 5,801,702	\$ 5,318,032	\$ 4,870,004	\$ 4,436,424	\$ 4,011,175	\$ 3,647,365	\$ 3,300,743	\$ 3,071,121	\$ 2,856,097	\$ 2,658,524	\$ 2,476,646	\$ 2,306,182	\$ 2,145,309	\$ 2,000,522	\$ 1,869,903	\$ 1,752,539	\$ 1,648,941	\$ 1,556,899	\$ 1,483,899
<b>Other</b>																				
Administration (50% of total)	\$ 1,356,606	\$ 1,410,870	\$ 1,467,305	\$ 1,525,997	\$ 1,587,037	\$ 1,650,519	\$ 1,716,540	\$ 1,785,201	\$ 1,856,609	\$ 1,930,874	\$ 2,008,109	\$ 2,088,433	\$ 2,171,970	\$ 2,258,849	\$ 2,349,203	\$ 2,443,171	\$ 2,540,898	\$ 2,642,534	\$ 2,748,235	\$ 2,858,165
Litter Control	\$ 290,480	\$ 302,100	\$ 314,184	\$ 326,751	\$ 339,821	\$ 353,414	\$ 367,550	\$ 382,252	\$ 397,542	\$ 413,444	\$ 429,982	\$ 447,181	\$ 465,068	\$ 483,671	\$ 503,018	\$ 523,139	\$ 544,064	\$ 565,827	\$ 588,460	\$ 611,998
Capital Expenditures at Disposal Sites	\$ 961,538	\$ 1,000,000	\$ 1,040,000	\$ 1,081,600	\$ 1,124,864	\$ 1,169,859	\$ 1,216,653	\$ 1,265,319	\$ 1,315,932	\$ 1,368,569	\$ 1,423,312	\$ 1,480,244	\$ 1,539,454	\$ 1,601,032	\$ 1,665,074	\$ 1,731,676	\$ 1,800,944	\$ 1,872,981	\$ 1,947,900	\$ 2,025,817
Deposit to Operating Reserve	\$ -	\$ 972,342	\$ 250,000	\$ 870,000	\$ 1,025,000	\$ 1,600,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Engineering for Other Capital Projects	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Other Expenses</b>	\$ 2,608,625	\$ 3,685,312	\$ 3,071,489	\$ 3,804,348	\$ 4,076,722	\$ 4,773,791	\$ 3,300,743	\$ 3,432,772	\$ 3,570,083	\$ 3,712,887	\$ 3,861,402	\$ 4,015,858	\$ 4,176,493	\$ 4,343,552	\$ 4,517,294	\$ 4,697,986	\$ 4,885,906	\$ 5,081,342	\$ 5,284,595	\$ 5,495,979
<b>TOTAL EXPENSES</b>	\$ 18,576,574	\$ 20,125,927	\$ 19,810,584	\$ 20,481,613	\$ 20,719,954	\$ 21,405,144	\$ 19,995,965	\$ 17,994,249	\$ 18,632,245	\$ 19,293,333	\$ 19,978,364	\$ 20,688,222	\$ 21,423,824	\$ 22,186,121	\$ 22,976,100	\$ 23,794,783	\$ 24,643,235	\$ 25,522,556	\$ 26,433,891	\$ 27,378,426

Update of Assessment of Long-Term Solid Waste Management Alternatives,  
Economic Forecast Model Revisions for Sonoma County

Year Fiscal Year	1 2008-09	2 2009-10	3 2010-11	4 2011-12	5 2012-13	6 2013-14	7 2014-15	8 2015-16	9 2016-17	10 2017-18	11 2018-19	12 2019-20	13 2020-21	14 2021-22	15 2022-23	16 2023-24	17 2024-25	18 2025-26	19 2026-27	20 2027-28
<b>REVENUES</b>																				
Power Plant Revenues	\$ 3,155,194	\$ 3,085,780	\$ 3,051,073	\$ 3,016,365	\$ 2,981,658	\$ 2,946,951	\$ 2,912,244	\$ 2,877,537	\$ 2,842,830	\$ 2,808,123	\$ 2,773,416	\$ 2,738,708	\$ 2,704,001	\$ 2,669,294	\$ 2,634,587	\$ 2,599,880	\$ 2,565,173	\$ 2,530,466	\$ 2,495,758	\$ 2,461,051
Other Misc Revenues	\$ 852,600	\$ 865,389	\$ 878,370	\$ 891,545	\$ 904,919	\$ 918,492	\$ 932,270	\$ 946,254	\$ 960,448	\$ 974,854	\$ 989,477	\$ 1,004,319	\$ 1,019,384	\$ 1,034,675	\$ 1,050,195	\$ 1,065,948	\$ 1,081,937	\$ 1,098,166	\$ 1,114,639	\$ 1,131,358
First Year Use of Fund Balance																				
Direct Haul Revenues	\$ -	\$ -																		
West Expansion - Rock Quarry Royalties																				
<b>TOTAL REVENUES</b>	<b>\$ 4,007,794</b>	<b>\$ 3,951,169</b>	<b>\$ 3,929,442</b>	<b>\$ 3,907,911</b>	<b>\$ 3,886,577</b>	<b>\$ 3,865,444</b>	<b>\$ 3,844,514</b>	<b>\$ 3,823,791</b>	<b>\$ 3,803,277</b>	<b>\$ 3,782,977</b>	<b>\$ 3,762,893</b>	<b>\$ 3,743,028</b>	<b>\$ 3,723,385</b>	<b>\$ 3,703,969</b>	<b>\$ 3,684,782</b>	<b>\$ 3,665,828</b>	<b>\$ 3,647,110</b>	<b>\$ 3,628,632</b>	<b>\$ 3,610,397</b>	<b>\$ 3,592,410</b>
<b>NET EXPENSES</b>																				
<b>Calculated Tipping Fee</b>	<b>\$ 107.92</b>	<b>\$ 118.69</b>	<b>\$ 115.43</b>	<b>\$ 119.33</b>	<b>\$ 120.06</b>	<b>\$ 123.92</b>	<b>\$ 113.04</b>	<b>\$ 98.24</b>	<b>\$ 101.84</b>	<b>\$ 105.52</b>	<b>\$ 109.28</b>	<b>\$ 113.12</b>	<b>\$ 117.05</b>	<b>\$ 121.07</b>	<b>\$ 125.18</b>	<b>\$ 129.39</b>	<b>\$ 133.69</b>	<b>\$ 138.10</b>	<b>\$ 142.60</b>	<b>\$ 147.22</b>
<b>Closure/Post-Closure Expenses</b>																				
Central Closure			\$ 3,793,979	\$ 3,793,979	\$ 3,793,979			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Central Post Closure								\$ 934,798	\$ 940,718	\$ 978,347	\$ 1,017,481	\$ 1,058,180	\$ 1,100,507	\$ 1,144,527	\$ 1,190,308	\$ 1,237,921	\$ 1,287,438	\$ 1,338,935	\$ 1,392,492	\$ 1,448,192
All Other Landfills Post Closure	\$ 1,265,446	\$ 1,316,064	\$ 1,368,707	\$ 1,423,455	\$ 1,480,393	\$ 1,539,609	\$ 1,601,193	\$ 1,665,241	\$ 1,731,850	\$ 1,801,124	\$ 1,873,169	\$ 1,948,096	\$ 2,026,020	\$ 2,107,061	\$ 2,191,343	\$ 2,278,997	\$ 2,370,157	\$ 2,464,963	\$ 2,563,562	\$ 2,666,104
<b>Subtotal Closure/Post-Closure Expenses</b>	<b>\$ 1,265,446</b>	<b>\$ 1,316,064</b>	<b>\$ 5,162,686</b>	<b>\$ 5,217,434</b>	<b>\$ 5,274,372</b>	<b>\$ 1,539,609</b>	<b>\$ 1,601,193</b>	<b>\$ 2,600,039</b>	<b>\$ 2,672,568</b>	<b>\$ 2,779,471</b>	<b>\$ 2,890,650</b>	<b>\$ 3,006,276</b>	<b>\$ 3,126,527</b>	<b>\$ 3,251,588</b>	<b>\$ 3,381,652</b>	<b>\$ 3,516,918</b>	<b>\$ 3,657,594</b>	<b>\$ 3,803,898</b>	<b>\$ 3,956,054</b>	<b>\$ 4,114,296</b>
<b>Calculated Tipping Fee</b>	<b>\$ 117.29</b>	<b>\$ 128.34</b>	<b>\$ 152.96</b>	<b>\$ 156.90</b>	<b>\$ 157.68</b>	<b>\$ 134.80</b>	<b>\$ 124.25</b>	<b>\$ 116.27</b>	<b>\$ 120.20</b>	<b>\$ 124.43</b>	<b>\$ 128.76</b>	<b>\$ 133.19</b>	<b>\$ 137.73</b>	<b>\$ 142.37</b>	<b>\$ 147.12</b>	<b>\$ 151.99</b>	<b>\$ 156.98</b>	<b>\$ 162.09</b>	<b>\$ 167.32</b>	<b>\$ 172.69</b>
<b>Total Expenses Less Revenues w/ Zero Waste</b>	<b>\$ 15,834,226</b>	<b>\$ 17,490,823</b>	<b>\$ 21,043,827</b>	<b>\$ 21,791,136</b>	<b>\$ 22,107,750</b>	<b>\$ 19,079,309</b>	<b>\$ 17,752,645</b>	<b>\$ 16,770,497</b>	<b>\$ 17,501,536</b>	<b>\$ 18,289,827</b>	<b>\$ 19,106,121</b>	<b>\$ 19,951,471</b>	<b>\$ 20,826,966</b>	<b>\$ 21,733,740</b>	<b>\$ 22,672,969</b>	<b>\$ 23,645,873</b>	<b>\$ 24,653,719</b>	<b>\$ 25,697,822</b>	<b>\$ 26,779,548</b>	<b>\$ 27,900,313</b>
<b>Net Present Value (NPV) of Total Expenses Less Revenues</b>																				
<b>Total Expenses Less Revenues w/o Zero Waste</b>	<b>\$ 15,834,226</b>	<b>\$ 17,490,823</b>	<b>\$ 21,043,827</b>	<b>\$ 21,791,136</b>	<b>\$ 22,107,750</b>	<b>\$ 19,079,309</b>	<b>\$ 17,752,645</b>	<b>\$ 16,770,497</b>	<b>\$ 17,501,536</b>	<b>\$ 18,289,827</b>	<b>\$ 19,106,121</b>	<b>\$ 19,951,471</b>	<b>\$ 20,826,966</b>	<b>\$ 21,733,740</b>	<b>\$ 22,672,969</b>	<b>\$ 23,645,873</b>	<b>\$ 24,653,719</b>	<b>\$ 25,697,822</b>	<b>\$ 26,779,548</b>	<b>\$ 27,900,313</b>
<b>Net Present Value (NPV) of Total Expenses Less Revenues</b>																				
<b>Operating Reserves/Fund Balance</b>																				
Year Beginning - Fund Balance	\$2,981,161	\$3,019,916	\$4,044,157	\$4,349,981	\$5,287,841	\$6,394,908	\$8,098,842	\$8,204,127	\$8,310,781	\$8,418,821	\$8,528,265	\$8,639,133	\$8,751,442	\$8,865,210	\$8,980,458	\$9,097,204	\$9,215,468	\$9,335,269	\$9,456,627	\$9,579,563
Operating Reserve Deposit		\$ 972,342	\$ 250,000	\$ 870,000	\$ 1,025,000	\$ 1,600,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating Reserve Interest	\$38,755	\$51,899	\$55,824	\$67,860	\$82,067	\$103,934	\$105,285	\$106,654	\$108,040	\$109,445	\$110,867	\$112,309	\$113,769	\$115,248	\$116,746	\$118,264	\$119,801	\$121,358	\$122,936	\$124,534
Operating Reserve	\$3,019,916	\$4,044,157	\$4,349,981	\$5,287,841	\$6,394,908	\$8,098,842	\$8,204,127	\$8,310,781	\$8,418,821	\$8,528,265	\$8,639,133	\$8,751,442	\$8,865,210	\$8,980,458	\$9,097,204	\$9,215,468	\$9,335,269	\$9,456,627	\$9,579,563	\$9,704,098
Year End - Fund Balance	\$3,019,916	\$4,044,157	\$4,349,981	\$5,287,841	\$6,394,908	\$8,098,842	\$8,204,127	\$8,310,781	\$8,418,821	\$8,528,265	\$8,639,133	\$8,751,442	\$8,865,210	\$8,980,458	\$9,097,204	\$9,215,468	\$9,335,269	\$9,456,627	\$9,579,563	\$9,704,098
<b>TONNAGE FLOW</b>																				
Amount of Waste Received at County Facilities	135,000	136,283	137,577	138,884	140,204	141,536	142,880	144,237	145,608	146,991	148,387	149,797	151,220	152,657	154,107	155,571	157,049	158,541	160,047	161,568
Amount to Central	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total System Waste	135,000	136,283	137,577	138,884	140,204	141,536	142,880	144,237	145,608	146,991	148,387	149,797	151,220	152,657	154,107	155,571	157,049	158,541	160,047	161,568
Amount Hauled Out of County	135,000	136,283	137,577	138,884	140,204	141,536	142,880	144,237	145,608	146,991	148,387	149,797	151,220	152,657	154,107	155,571	157,049	158,541	160,047	161,568
Amount Direct Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Original tonnage assumptions	440,333	444,516	448,739	453,002	457,305	461,650	466,035	470,463	474,932	479,444	483,999	488,597	493,238	497,924	502,654	507,430	512,250	517,117	522,029	526,988
<b>Assumptions</b>																				
Annual General Escalation Rate	4.0%																			
Annual Out of County Haul Fee Escalation Rate	2.0%																			
Annual Waste Escalation Rate	0.95%																			
Annual Revenue Increase	1.5%																			
LFG Generation (and Revenue) Decrease Rate	2.6%																			
Net Revenue Increase-Revenue Decrease Rate	-1.1%																			
PCM per ton per year	\$ 9.37	\$ 9.66	\$ 37.53	\$ 37.57	\$ 37.62	\$ 10.88	\$ 11.21	\$ 18.03	\$ 18.35	\$ 18.91	\$ 19.48	\$ 20.07	\$ 20.68	\$ 21.30	\$ 21.94	\$ 22.61	\$ 23.29	\$ 23.99	\$ 24.72	\$ 25.46