

Brown, Vence & Associates, Inc.

~ Sonoma County ~  
Reassessment of Solid Waste  
Management Plan  
Alternative & Scenario Development

Workshop  
December 9, 2004



# Overview

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## Three Goals Today

- Review Alternative evaluation & scoring
- Review Scenario development
- Discuss short-listing of Scenarios



# Reassessment of Plan Approach

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- Gather background information
- Define criteria and alternatives
- **Analyze and evaluate alternatives**
- **Develop solid waste management scenarios**
- **Short-list most appropriate scenarios**
- Conduct detailed economic analysis
- Select preferred scenario



# Evaluation & Analysis

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- Defined the alternatives and criteria
- Weighted the criteria with LTF
- Conducted detailed analysis of each alternative
- Evaluated and scored each alternative with criteria concurred on by LTF



# Alternatives

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- Export waste outside of County
- JPA assumes greater responsibility
- Maximize diversion through zero waste policies
- Expand Central Disposal Site
- Develop subregional system
- Develop West Expansion Area at Central
- Develop new long-term landfill in County
- Develop multi-county system
- Develop MRF
- Develop organics processing facility
- Privatize system



# Evaluation Criteria and Weights

Criteria	Weight (pts)
Operating History	6
Diversion Potential/Consistency with AB 939 Hierarchy	14
Distribution of Economic Benefits and Impacts, and Social Equity	6
Environmental Consequences	10
Role of Public Sector Entities & JPA Participation Potential	7
Regulatory Cooperation	7
Disposal Needs and Obligations	9
Capital Costs	6
Operating Cost	7
Cost per ton	9
Siting, Design, Permitting and Construction Requirements	9
Effect on Current System Costs	10
<b>Totals</b>	<b>100</b>



# Short-Term Alternatives Scores

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Alternative	Score
<b>Short-Term Alternatives</b>	
Alternative 1 – Exporting of Solid Waste Outside of County	<b>312</b>
Alternative 2 – Joint Powers Agency Assumes Greater Responsibility for Solid Waste	<b>341</b>
Alternative 3 – Maximize Diversion in the County through Zero Waste Policies	<b>355</b>
Alternative 4 – Expansion of the Central Disposal Site	<b>292</b>
Alternative 5 – Subregional Waste System	<b>232</b>



# Long-Term Alternatives Scores

Alternative	Score
<b>Long-Term Alternatives</b>	
Alternative 1 – Exporting of Solid Waste Outside of County	<b>312</b>
Alternative 3 – Maximize Diversion in the County through Zero Waste Policies	<b>378</b>
Alternative 6 – Development of West Expansion Area	<b>285</b>
Alternative 7 – Development of New Long-Term Landfill Capacity in the County	<b>236</b>
Alternative 8 – Develop Multi-County Regional System by Incorporating Adjacent County's Waste	<b>333</b>
Alternative 9 – Regional Cooperation to Develop a Materials Recovery Facility to Divert Non-Source Separated Recyclables from the Refuse Stream (this alternative does not include development of a source-separated recyclables MRF as these are already operated by private industry)	<b>278</b>
Alternative 10 – Development of an Organics Processing Facility	<b>248</b>
Alternative 11 – Privatization of All or Part of the Solid Waste System	<b>276</b>





# Scenario Development

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- Determined which alternatives were “base” alternatives to include in all scenarios
- Determined which alternatives scored low and were eliminated
- Determined how scenarios were grouped



# Scenario Summary

Scenario	Institutional/Structural Issues	Short-Term Disposal	Facilities	Long-Term Disposal
A	Pursue greater responsibility for the JPA; maximize diversion through zero waste policies	Export out-of-county	None	Export out-of-county
B	Pursue greater responsibility for the JPA; maximize diversion through zero waste policies	Export out-of-county	None	Expand Central and then export out-of-county
C	Pursue greater responsibility for the JPA; maximize diversion through zero waste policies	Export out-of-county	None	Develop West Area at CDS and then export out-of-county
D	Pursue greater responsibility for the JPA; maximize diversion through zero waste policies	Export out-of-county	None	Expand Central & Develop West Area at CDS and then export out-of-county
E	Pursue greater responsibility for the JPA; maximize diversion through zero waste policies	Export out-of-county	Develop MRF	Export out-of-county



# Scenario Summary (cont.)

Scenario	Institutional/Structural Issues	Short-Term Disposal	Facilities	Long-Term Disposal
F	Pursue greater responsibility for the JPA; maximize diversion through zero waste policies; develop subregional system	Export out-of-county	None	Export out-of-county
G	Pursue greater responsibility for the JPA; maximize diversion through zero waste policies; develop subregional system	Export out-of-county	None	Expand Central and then export out-of-county
H	Pursue greater responsibility for the JPA; maximize diversion through zero waste policies; develop subregional system	Export out-of-county	None	Develop West Area at CDS and then export out-of-county
I	Pursue greater responsibility for the JPA; maximize diversion through zero waste policies; develop subregional system	Export out-of-county	None	Expand Central & Develop West Area at CDS and then export out-of-county



# Scenario Summary (cont.)

Scenario	Institutional/Structural Issues	Short-Term Disposal	Facilities	Long-Term Disposal
J	Pursue greater responsibility for the JPA; maximize diversion through zero waste policies; develop subregional system	Export out-of-county	Develop MRF	Export out-of-county
K	Pursue greater responsibility for the JPA; maximize diversion through zero waste policies; develop multi-county regional system	Export out-of-county	None	Export out-of-county
L	Pursue greater responsibility for the JPA; maximize diversion through zero waste policies; develop multi-county regional system	Export out-of-county	None	Expand Central & Develop West Area at CDS and then export out-of-county
M	Pursue greater responsibility for the JPA; maximize diversion through zero waste policies; privatize solid waste system	Export out-of-county	None	Private landfill



# Findings

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- Short-term export of waste required
- Maximize diversion through zero waste policies
- Pursue greater responsibility through the JPA
- Long-term disposal capacity through exportation and/or expansion at Central
- New in-County landfill not viable
- Organics processing facility not viable
- Source separated recyclables MRFs addressed by private sector
- Non-source separated MRF of marginal benefit



# Next Tasks

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- To select short-list of scenarios
- Conduct detailed economic analysis
- Select most appropriate solid waste management scenario to implement

