

Conversion Technology Santa Barbara Experience

Emerging Technologies Forum
Tuesday, April 18, 2006,



Solid Waste Task Force

- Representation by elected officials from all Cities and the County
- Purpose to identify long-term Solid Waste Management Strategy
- Open to the Public
- Established in 2001

Solid Waste
Task Force

Project Team

Technical
Advisory
Committee (TAC)

TAC Sub-Committees

Greenwaste

Commercial

C&D

HHW

Short/Long

Conversion
Technology

SWTG Guidelines

- Local Control
- Cost Effectiveness
- Diversion
- Regional Cooperation
- Flexibility
- Reliability

SWTG Guidelines

- Current Programs will continue
- Waste diversion hierarchy is traditional recycling, waste conversion, followed by land-filling
- Develop a local clean MRF
- Conversion (Alternative Technology) should be initially sized to allow for recycling to the maximum extent feasible
- The landfill should receive a minimum volume to maintain economic feasibility



TAJIGUAS LANDFILL

Conversion Technology Efforts

Steps to Implementation

- Public Outreach and Education
- Assessment of Vendors
- *Vendor Selection*
- *Siting*
- *Vendor Agreement*
- *Permitting*
- *Construction*

Process to Date

- Initially Screened 51 Companies Worldwide
- Requested 21 Companies to provide additional Information
- Identified a Short-list (5-8) of potential Companies
- Complete Air Quality Analysis with APCD and CIWMB

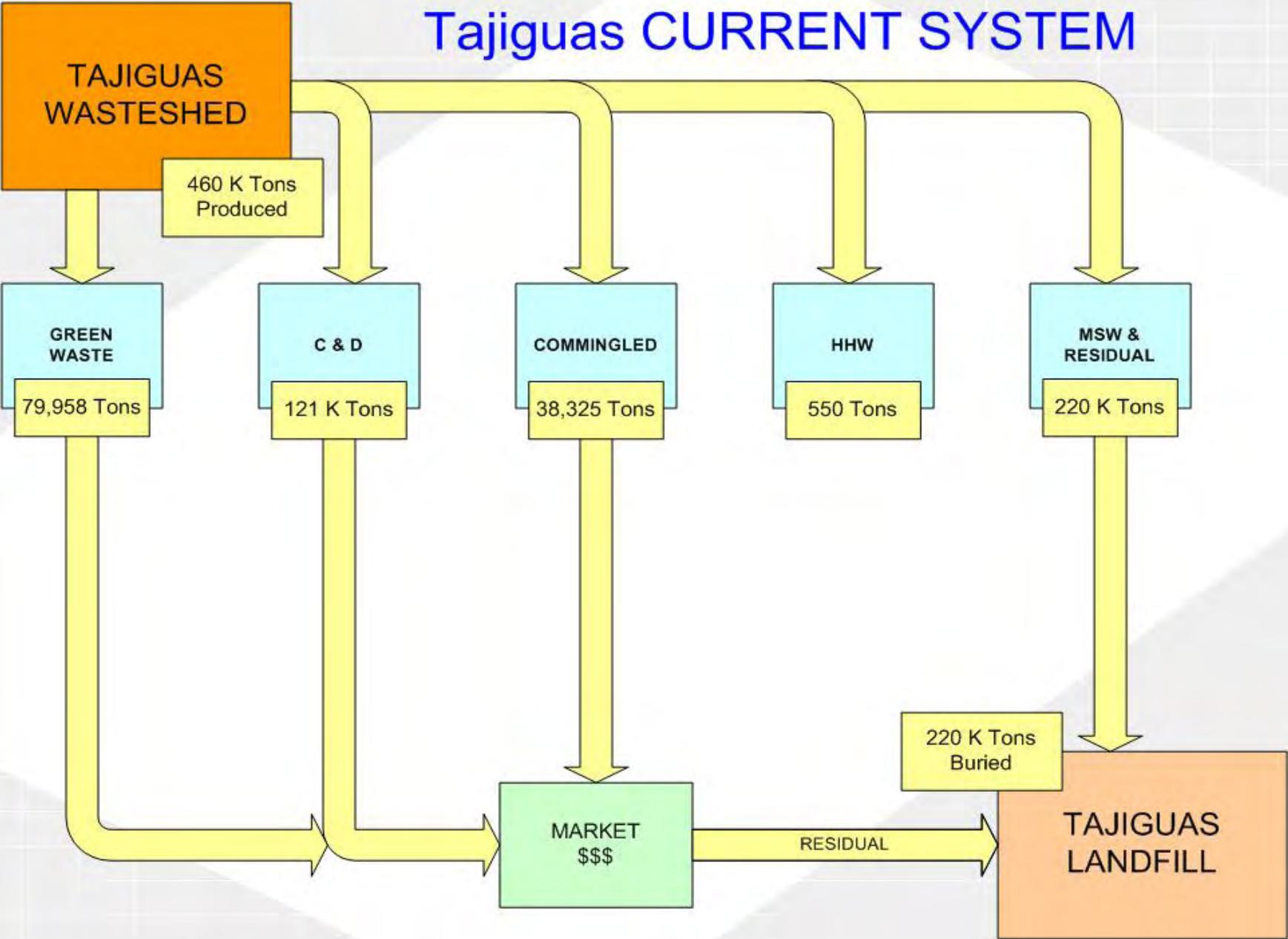
Countywide Recommendations

- Increase Commercial Recycling
- Provide for collection of E-Waste
(State wide mandate)
- Pass C&D Ordinance (by wasteshed)
- Develop a Clean MRF on the South Coast
to provide a local option for the County

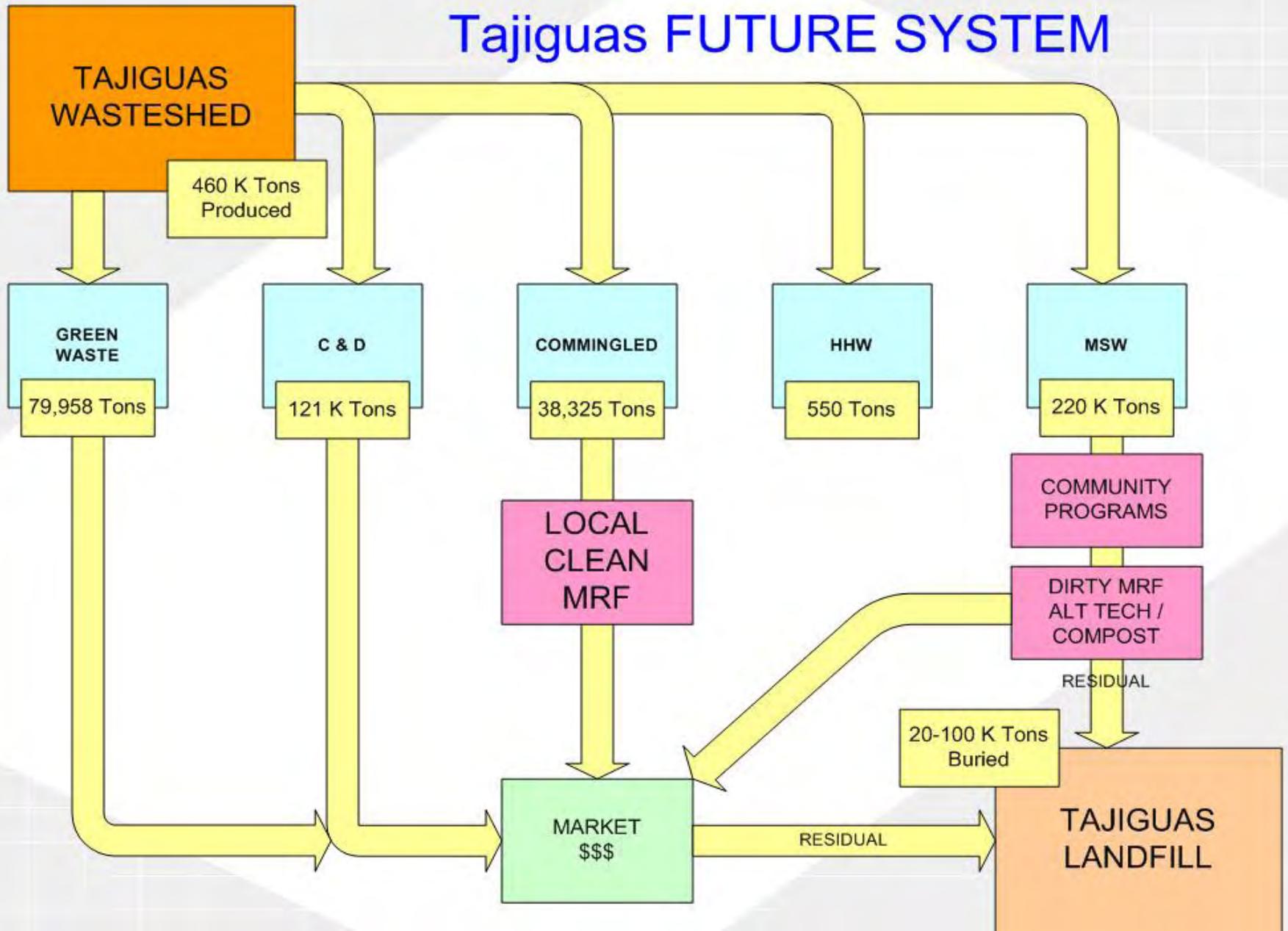
South Coast Wasteshed Proposals

- Expansion of Existing Programs
- Clean MRF
- Food Waste Collection & Processing
- Construction and Demolition Ordinances
- Household Hazardous Waste Facility
- Electronic Waste Programs
- New Conversion Facility

Tajiguas CURRENT SYSTEM



Tajiguas FUTURE SYSTEM



System Scenarios Considered by the TAC

- Existing System (No Changes/Modifications)
- Composting & Dirty MRF
+ New Community Programs
- Conversion & Dirty MRF
+ New Community Programs

Cost Comparisons of System Scenarios

<i>Scenario</i>	<i>Annual Net Cost</i>	<i>Cost Per Ton</i>
Existing System	\$7.3 M	\$27
Composting & Dirty MRF + Community Programs	\$7.6 - \$10.7 M	\$28 - 40
Conversion & Dirty MRF + Community Programs	\$7.3 - \$11.5 M	\$27 - 42

Landfill Diversion Comparison of System Scenarios

<i>Scenario</i>	<i>South Coast Diversion</i>
Existing System	55%
Projected Composting & Dirty MRF + Community Programs	74%
Projected Conversion & Dirty MRF + Community Programs	83-88%

TAC & Project Team Recommendations

- Expansion of Community Programs
- New Material Recovery Facility for Commingled Recyclables (Clean MRF)
- Dirty MRF and Conversion Technology
OR if infeasible...
- Dirty MRF and Composting Facility



Questions?