### MARIN COUNTY HAZARDOUS & SOLID WASTE JOINT POWERS AUTHORITY

**Board of Directors Meeting** 

Thursday, January 28, 2010 Marin Municipal Water District 220 Nellen Avenue, Corte Madera

9:00 -10:00 AM

#### **AGENDA**

Call to Order.

- 1) Approval of JPA Board Meeting Minutes. (Action)
  - A. Approval of JPA Board Meeting Minutes from May 28, 2009.
  - B. Approval of JPA Board Meeting Minutes from October 29, 2009.
- 2) Nondisposal Facility Element Amendment Approval. (Action)
- 3) Update on County Activities Surrounding Plastics from Charles McGlashan. (Information)
- 4) FY 10-11 Budget Process and Workgroup. (Action)
- 5) Accept Zero Waste Feasibility Study. (Action)
- 6) Accept JPA Audit and Financial Statements for year ending June 30, 2009. (Action)
- 7) 2008 Annual Report Submittal. (Information)
- 8) Household Hazardous Waste Facility Grant Update. (Information)
- 9) Open Time.
- 10) Adjourn.

The full agenda including staff reports can be viewed at www.marinrecycles.org/mins\_agendas.cfm

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#### 1A

#### Draft

## MARIN COUNTY HAZARDOUS & SOLID WASTE MANAGEMENT JOINT POWERS AUTHORITY

Board of Directors Meeting Thursday, May 28, 2009 Marin Municipal Water District 220 Nellen Avenue, Corte Madera

#### **MINUTES**

#### MEMBERS PRESENT

George Rodericks, Belvedere Michael Rock, Fairfax Anne Montgomery, Mill Valley Debra Stutsman, San Anselmo Adam Politzer, Sausalito Margaret Curran, Tiburon Jean Bonander, Larkspur Gary Broad, Ross

#### **MEMBERS ABSENT**

David Bracken, Corte Madera Matthew Hymel, County of Marin Ken Nordhoff, San Rafael

#### STAFF PRESENT

Michael Frost, JPA Eric Lueder, JPA Staff Alex Soulard, JPA Staff Kiel Gillis, JPA Staff Jeff Rawles, JPA Consultant

#### **OTHERS PRESENT**

Pat Thompson, City of Novato Richard Tagore-Erwin, R3 Consulting Judy Schriebman, LGVSD Tamara Hull, JPA LTF Bruce Baum Kiki LaPorta, Sustainable Marin Roger Roberts, Marin Conservation League Stuart Moody, Green Sangha Steve McCaffrey, Redwood Emp. Dis., JPA LTF Marc Levine Kay Karchevski, San Rafael Bill Carney, Sustainable San Rafael Patty Garbarino, MSS JPA LTF Tamara Peters, Sustainable Marin Mona Myasato, County of Marin Kaoru Cruz, CIWMB Katie Garrison, CIWMB Jon Elam, TCSD, JPA LTF David Haskell, JPA LTF

Call to Order The Board of Directors meeting came to order at 9:11 AM.

- 1. <u>Approval of JPA Board Meeting Minutes from October 30, 2008.</u> M/s Bonander, Rock to approve JPA Board Meeting Minutes from October 30, 2008. The motion passed unanimously.
- 2. <u>CIWMB Grant Resolution.</u> Staff presented a resolution to the Board that would allow staff to apply for all grants from the California Integrated Waste Management Board which the JPA is qualified for within the next five years. The resolution will prevent conflicts with JPA meeting dates and application deadlines. No questions or comments. M/s Bonander, Rodericks to approve the Grant Resolution. The motion passed unanimously.
- 3. Approve JPA FY09-10 Budget, Contract and Tipping Fee Resolution. Staff presented the FY09-10 Budget noting that the HHW program has exceeded its budget and reserves have been used to compensate and tipping fees raised by \$0.09. To accommodate the cost overrun, the San Rafael Fire Department is requesting a \$94,317 budget adjustment

for FY 08-09. Staff also noted that the budget included a HHW Grant, the Zero Waste Program and a \$50,000 public outreach campaign. Mr. Bruce Baum asked staff to explain the relationship between the three agencies to operate the HHW Facility, who is paying for the facility expansion, and why there was a cost of living increase. Staff responded stating that the City of San Rafael holds the permit for the HHW Facility and the JPA rents the facility space from Marin Sanitary Service. The JPA contracts with the City of San Rafael for the operation of the facility and processing of waste. The HHW Grant will pay for costs of new equipment but the expansion of the building is paid by Marin Sanitary, and the cost of living is based on union contracts for set amounts. LTF member, Mr. David Haskell, stated that the budget needs to be increased for Zero Waste, private interests are being represented over public, and that recycling is the new garbage. Individual public members stated the \$50,000 of public outreach should begin being spent immediately, tipping fees should be increase, 100% of resources should be managed, and that the JPA should model itself after Stopwaste.org. Another LTF member, Mr. Jon Elam, stated that the Zero Waste Program is moving a long smoothly, we must wait for the feasibility study for guidance, and that the budget is a great step towards the zero waste goals. M/s Bonander, Montgomery to approve the JPA FY 09-10 Budget, Contract and Tipping Fee Resolution. The motion passed unanimously.

- 4. 2008 Financial Statements and Auditor's Report. Staff presented the 2008 Auditor's Report and noted that there were no exemptions. Jean Bonander noted that the Auditors report is being approved in May of the following year and asked if staff could look into expediting the process. Staff agreed to check with the auditor. A public member asked if there were estimated amounts in the report due to exemptions that were made in 2007 from a delay in invoicing from the HHW Facility. Staff noted that no amounts are estimated. M/s Politzer, Rock to accept the report. Motion was unanimously approved.
- 5. Zero Waste Feasibility Study Presentation. Staff introduced Richard Tagore Erwin of R3 Consulting Group. Mr. Tagore-Erwin presented the preliminary findings of the Zero Waste Feasibility Study and requested input from the Executive Committee. He described their process of data collection and their meetings with haulers and facilities to date. He outlined potential policy changes, facility siting, contract adjustments that are potential methods for increased diversion and conservation, and reported on comments that were received from the Local Task Force, the Executive Committee, and from members of the public. A member of the public stated all municipalities need to pass Zero Waste Resolutions and that franchise fees should be eliminated and a road impact fee should be put into place. Individual public members noted that Zero Waste must be defined so that no waste leaves Marin, a focus should be on climate change, producer responsibility, and restructuring of franchise agreements. Additional comments from the public promoted ideas of a reuse/repair programs to develop jobs, pay as you throw systems, and developing a framework of facilities to facilitate change.
- 6. <u>Executive Committee Report</u> Staff presented the Local Task Force minutes from the Executive Committee meetings as an informational item. No Comments were received.
- 7. <u>Local Task Force Report</u>. Staff presented the Local Task Force minutes from the Local Task Force meetings as an informational item. No Comments were received.
- 8. <u>2007 Annual Report Submittal.</u> Staff reported that the JPA has exceeded its goals in the 2007 annual report and that SB1016 has changed the reporting system to be based on

limiting disposal rather than tracking diversion. The goals are based on an average of generation from historic data. Marin has a high generation but also a high diversion. Moving forward the JPA will need to work on limiting consumption.

- 9. <u>Set Date for November 2009 JPA Board Meeting.</u> The Board agreed to have staff determine a date for the November meeting with the Chair.
- 10. <u>Open Time</u>. Katie Garrison of the CIWMB reported on the Waste Board's Waste Reduction Awards Program and encouraged the Board to have local businesses and nonprofits apply before June 15, 2009.
- 11. Adjourn.

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## MARIN COUNTY HAZARDOUS & SOLID WASTE MANAGEMENT JOINT POWERS AUTHORITY

Board of Directors Meeting Thursday, October 29, 2009 Marin Municipal Water District 220 Nellen Avenue, Corte Madera

#### **MINUTES**

#### **MEMBERS PRESENT**

Matthew Hymel, County of Marin Michael Rock, Fairfax Anne Montgomery, Mill Valley Debra Stutsman, San Anselmo Adam Politzer, Sausalito Margaret Curran, Tiburon Jean Bonander, Larkspur Ken Nordhoff, San Rafael David Bracken, Corte Madera Michael Frank, Novato

#### **MEMBERS ABSENT**

Gary Broad, Ross George Rodericks, Belvedere

#### STAFF PRESENT

Michael Frost, JPA Staff Alex Soulard, JPA Staff Jeff Rawles, JPA Consultant Nancy Grisham, JPA Staff

#### **OTHERS PRESENT**

Loretta Figueroa, Almonte Sanitary District, LTF Kerry Mazzoni, San Rafael Christopher Gray, San Rafael Fire Dept. Patty Garbarino, Marin Sanitary

Call to Order The Board of Directors meeting came to order at 9:07 AM.

1. Report on JPA Household Hazardous Waste Facility. Staff provided a history of the San Rafael Household Hazardous Waste Facility. San Rafael received a permit to operate the HHW Facility, which they entered into an agreement with the Marin Recycling and Resource Recovery Association (MRRRA) to operate. In 1996 the JPA entered into an agreement with the City of San Rafael to allow all Marin citizens, excluding Novato, to use the facility. In 2007 the JPA was awarded a \$300,000 grant for facility improvements. However, a problem arose due to grant language that states the JPA needs to maintain ownership of real and personal property funded by the grant. JPA staff has worked with counsel, the CIWMB and the City of San Rafael to come to an agreement that will satisfy the grant terms by ensuring the JPA will refund grant funds on a pro rata basis if the Facility closes before 10 years. Patty Garbarino, President of the MRRRA, stated that Marin Sanitary Service would repay grant funds if the HHWF closes prior to the 10 year requirement. Legal Counsel for each group has been working on an agreement that would indemnify the JPA from repayment of the funds and place the requirement on Marin Sanitary Service. Additionally, each party agreed that the contracts for facility operation should be updated and recommended a subcommittee of JPA Board members be appointed to review the agreements. Jean Bonander asked if the subcommittee to revise the agreements could be the Executive Committee. Staff and JPA members agreed that a three member subcommittee would work better.

M/s Nordhoff, Montgomery to authorize Michael Frost to sign an agreement with the CIWMB to reflect an acceptable amortization of the \$300,000 CIWMB HHW Facility Improvements Grant and to sign a separate or combined indemnification agreement with MRRRA to indemnify the JPA for the acceptable amortization of the \$300,000 CIWMB HHW Facility Improvement Grant, both of which will be subject to review and approval by the JPA and CIWMB attorneys. The motion was unanimously approved.

M/s Nordhoff, Montgomery to allow staff to amend the existing CIWMB grant agreement to eliminate the securitization provisions currently contained in the grant and authorize Michael Frost to sign the required grant amendments necessary to accommodate CIWMB approval that the JPA does not have to take title to property funded by the grant. The motion was unanimously approved.

Ken Nordhoff, Matthew Hymel, and Debra Stutsman volunteered to be on the subcommittee for review of the HHW Facility Agreements. M/s Rock, Bonander to appoint a subcommittee of Ken Nordhoff, Matthew Hymel, and Debra Stutsman to work with the City of San Rafael to update the current operating agreement with MRRRA for oversight of the HHW and the existing agreement for HHW program oversight and administration and report back to the Executive Committee. The motion was unanimously approved.

- 2. Open Time. No comments were received.
- 3. Adjourn.

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# MARIN COUNTY HAZARDOUS AND SOLID WASTE MANAGEMENT JOINT POWERS AUTHORITY

Belvedere:

George Rodericks

January 28, 2010

Corte Madera:

David Bracken

To: JPA Board Members

Re:

County of Marin:

Matthew Hymel

From: Alex Soulard

Fairfax:

Michael Rock

Larkspur: Robert Sinnott

Mill Valley:

Novato: Michael Frank

Ross: Gary Broad

San Anselmo:
Debbie Stutsman

San Rafael: Ken Nordhoff

Sausalito: Adam Politzer

Tiburon: Margaret Curran Trom. Alica Country

The California Department of Resources Recycling and Recovery has requested the JPA amend its Nondisposal Facility Element (NDFE) to reflect Redwood Landfill's composting operation and changes to their permit. Staff developed an amended NDFE that has been reviewed by the Local Task Force and the Executive Committee which recommended your Board approve and adopt the document.

Nondisposal Facility Element Amendment Approval

Staff prepared and circulated the amended document to the Local Task Force on July 7, 2009. As required by State law, the Local Task Force had a 90 day review period to submit comments, which ended on October 1, 2009. Staff received comments solely from Redwood Landfill. The comments clarified permit restrictions of their planned facilities. JPA staff worked with County Environmental Health Division, who serve as the State approved Local Enforcement Agency (LEA) to ensure the changes were applicable and warranted before making appropriate revisions to the NDFE.

The document identifies facilities that are required to be permitted as Solid Waste Facilities but are not disposal facilities such as <u>materials</u> recovery facilities, compost facilities, and <u>transfer stations</u>. The NDFE may also discuss other utilized resources such as Redwood Empire Disposal's recycling facilities in Santa Rosa.

It is requested your Board approve the attached Nondisposal Facility Element. Once approved by the JPA Board the document will be sent to the California Department of Resources Recycling and Recovery, which will have 30 days to determine the completeness of the amendment.

Attachment

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# Nondisposal Facility Element for the Marin County Hazardous and Solid Waste Management Joint Powers Authority

Approved

Marin County Hazardous and Solid Waste Management Joint Powers Authority

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#### **Executive Summary**

#### Introduction

California Public Resources Code (PRC), Sections 41730 et seq., require every California city and county to prepare and adopt a Nondisposal Facility Element (NDFE) for all new Nondisposal Facilities, and any expansion of existing Nondisposal facilities, which will be needed to implement local Source Reduction and Recycling elements (SRREs). A Nondisposal facility is defined as any solid waste facility required to obtain a state solid waste facility permit except a disposal facility or transformation facility (PRC Section 40151).

The NDFE identifies the utilization of transfer station and material recovery facilities (MRFs) as Nondisposal facilities necessary to implement the Marin County Hazardous and Solid Waste Management Joint Powers Authority (JPA) goals. Tables 1-1 through 1-4, attached, identify the Nondisposal facilities the JPA utilizes to implement its SRRE and meet the solid waste diversion requirements of PRC Section 41780.

#### Marin's Non-Disposal Facility System

There are primary nondisposal facilities currently utilized in the diversion of commercial and residential materials in Marin County. The first and the principal source of waste diversion for Marin County is Marin Recycling and Resource Recovery Center in San Rafael which recovers substantial amounts of materials from curbside collection, drop-off, Cal. Redemption, debris boxes and self-haulers. This facility is directly next to the Marin Sanitary transfer station which is permitted by the LEA and used to consolidate loads of municipal solid waste. The second nondisposal facility utilized in Marin County is Marin Sanitary Inert which accepts waste from Marin Sanitary's residential and commercial accounts. Redwood Landfill Biosolids Co-Composting Facility is the main composting operation within Marin. This facility currently processes green waste from all incoming sources and will begin a pilot program for potential composting of foodwaste.

In addition to the in-County facilities there are many facilities identified in Section 2 that are outside of Marin for processing of recyclables, compost, and biomass, which are used by Marin's haulers and facilities to process additional tonnages. Staff has organized the facilities in order of both their proximity to Marin and in order of the greatest handlers of Marin generated materials, although the infrastructure is bound to change as markets, permitting, and consumption changes over time.

#### Section 1 – In County Facilities

Title 14 of the California Code of Regulations, Division 7, Chapter 9, Article 6.4 outlines the information that is required for each type of facility. Sections 18753 and 18754 specifically describe what is required for Nondisposal Facilities and Transfer Stations within a jurisdiction.

In addition to these requirements staff has identified the type of material the facility processes to paint a more accurate picture of Marin's activities. All jurisdictions have been identified as the Marin County Hazardous and Solid Waste Management Joint Powers Authority (JPA) since the JPA is a regional jurisdiction as approved by all the Marin municipalities and the CIWMB.

#### Section 18753. Description of Nondisposal Facilities within a Jurisdiction.

The NDFE shall identify all existing, expansion of existing, and proposed nondisposal facilities located within a jurisdiction which recover for reuse or recycling at least five percent of the total volume of material received by the facility.

- (a) Each facility description shall include, but is not limited to:
  - (1) type of facility;
  - (2) facility capacity;
  - (3) anticipated diversion rate or expected diversion rate from the total amount of the waste that the facility receives; and,
  - (4) participating jurisdictions.
- (b) Each facility location description may include, but is not limited to:
  - (1) address of the facility; or,
  - (2) description of the general area, (include a land use map, zoning map, or other type of planning map).

#### Section 18754. Description of Transfer Stations within a Jurisdiction.

The NDFE shall identify existing, expansion of existing, and proposed transfer stations located within a jurisdiction, which recover less than five percent of the volume of materials received for reuse or recycling.

- (a) Each facility description shall include, but is not limited to:
  - (1) name of facility; and;
  - (2) participating jurisdictions;
  - (3) facility capacity.
- (b) Each facility location description may include, but is not limited to:
  - (1) address of the facility; or,
  - (2) description of the general area, (include a land use map, zoning map, or other type of planning map).

Name of Facility: Redwood Landfill – Biosolids Co-Composting Facility

(SWFP # 21-AA-0001)

Type of Facility: Composting

Facility Capacity: Current: 170 tons per day of feedstock

Planned: potentially up to 514 tons per day of feedstock.

**Anticipated Diversion Rate:** Greater than 95% Diversion

Type of Material: Green/yard/wood waste, food waste, Class B Biosolids, and

active and finished compost.

Participating Jurisdictions: The Marin County Hazardous and Solid Waste Management

**Joint Powers Authority** 

Location of Facility: 8950 Redwood Highway, Novato, CA 94945

5.

Name of Facility:

Redwood Landfill - Material Recovery Facility

(Planned Facility\*)

Type of Facility:

Material Recovery Facility

**Facility Capacity:** 

400 tons per day of feedstock.

**Anticipated Diversion Rate:** 

Approximately 70% Diversion

Type of Material:

Construction/demolition, wood waste, and other debris related

materials.

Participating Jurisdictions:

The Marin County Hazardous and Solid Waste Management

Joint Powers Authority

**Location of Facility:** 

8950 Redwood Highway, Novato, CA 94945

<sup>\*</sup> Currently permitted to accept up to 400 tons per day of non-hazardous separated or commingled materials for recycling until Material Recovery Facility is permitted and operational. (See JTD, Table 5-6, dated November 17, 2008.)

Name of Facility: Marin Sanitary Service Transfer Station

(SWIS # 21-AA-0005)

Type of Facility: Transfer Station

Facility Capacity: Cumulative total of 2,640 tons per day. This

includes material brought/delivered to MRRC, residual waste from sorting at MRRC that is taken to Transfer Station, and material brought

directly to the Transfer Station.

Anticipated Diversion Rate: Less than 5% Diversion

Type of Material: Municipal solid waste from residential customers

Participating Jurisdictions: The Marin County Hazardous and Solid Waste Management

Joint Powers Authority

Location of Facility: 565 Jacoby Street, San Rafael, CA 94901

Name of Facility:

Marin Sanitary Service Resource Recovery Ctr.

(SWIS # 21-AA-0005)

Type of Facility:

Material Recovery Facility

**Facility Capacity:** 

Cumulative total of 2,640 tons per day. This includes material brought/delivered to MRRC, residual waste from sorting at MRRC that is taken to Transfer Station, and material brought

directly to the Transfer Station.

**Anticipated Diversion Rate:** 

Approximately 70% Diversion

Type of Material:

Construction/demolition, woodwaste, and other debris related

materials.

Participating Jurisdictions:

The Marin County Hazardous and Solid Waste Management

Joint Powers Authority

Location of Facility:

565 Jacoby Street, San Rafael, CA 94901

Name of Operation: Marin Sanitary Service Type A Inert Processing

Operation

(SWIS # 21-AA-0059, Permitted with an Enforcement Agency

Notification)

Type of Operation: This is an Inert Debris Type A Processing

Operation, not a Facility.

Operation Capacity: Average of 250 tons per day of soil and Type A

Inert Debris (e.g. concrete, asphalt), with less than 10% residuals such as plastic, drywall and lumber. Peak tonnage of 750 tpd. Volume of material on-site (incl. both processed and unprocessed) may not exceed 22,500 cubic yards.

Anticipated Diversion Rate: Greater than 90% diversion

Type of Material: Construction/demolition, and inert material

Participating Jurisdictions: The Marin County Hazardous and Solid Waste Management

Joint Powers Authority

**Location of Operation:** 1050 Andersen Drive, San Rafael, CA 94901

Name of Operation: Bolinas-Stinson Beach Resource Recovery Operation

(SWIS # 21-AA-0060, Permitted with an Enforcement Agency

Notification)

Type of Operation: Composting Facility.

Operation Capacity: Peak loading of 120 Cubic Yards. 8000 Cubic Yards Annually.

Anticipated Diversion Rate: Over 90% diversion.

Type of Material: Clean Green Material

Participating Jurisdictions: The Marin County Hazardous and Solid Waste Management

Joint Powers Authority

Location of Operation: Olema-Bolinas Road (APN 193-030-38), Bolinas, CA 94924

Name of Operation:

McEvoy Ranch

(SWIS #21-AA-0058, Permitted with an Enforcement Agency

Notification)

Type of Operation:

Composting Operation.

**Operation Capacity:** 

Peak loading of 100 cubic yards. Total annual volume of

material is 800 cubic yards per year.

**Anticipated Diversion Rate:** 

Over 95% diversion.

Type of Material:

Olive oil mill waste, livestock manure, landscape

and orchard debris.

**Participating Jurisdictions:** 

Approximately 75% of material is generated on-site, with 25%

(i.e. livestock manure) from nearby area (e.g. West Marin).

**Location of Operation:** 

5935 Redhill Road, Petaluma (Marin Co.), CA, 94952

#### Section 2 – Out of County Facilities

Title 14 of the California Code of Regulations, Division 7, Chapter 9, Article 6.4 outlines the information that is required for each type of facility. Sections 18753.5 and 18754.5 specifically describe what is required for Nondisposal Facilities and Transfer Stations that are utilized outside of a jurisdiction. Since the only transfer station used is within Marin no transfer stations are identified in this section.

In addition to these requirements staff has identified the capacity of the facility when available and the type of material the facility processes to paint a more accurate picture of Marin's activities. All tonnage estimates for the amount of waste transported to the facilities are based upon the most current reports from Marin's haulers.

Section 18753.5. Description of Nondisposal Facilities outside a Jurisdiction

The NDFE shall identify all existing, expansion of existing, and proposed nondisposal facilities which a jurisdiction, plans to utilize, but which are not located within the jurisdiction, and which recover for reuse or recycling at least five percent of the total volume of material received by the facility.

- (a) Each facility description shall include, but is not limited to:
- (1) type of facility;
- (2) estimated amount of the waste the jurisdiction will transport to the facility;
- (3) anticipated diversion rate or expected diversion rate from the total amount of the waste that the facility receives; and,
- (4) location of facility.

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Name of Operation: North Bay Corporation MRF

(SWIS #49-AA-0399(temp.), SWFP)

Type of Operation: Transfer/Processing Facility

**Operation Capacity:** 600 Tons per Day

Anticipated Diversion Rate: Over 90% diversion.

**Anticipated Amount of Waste** 

From Jurisdiction to Facility: Approximately 13,500 tons annually

Type of Material: Curbside Residential and Commercial Recyclables

**Location of Operation:** 3417 Standish Ave., Santa Rosa, CA 94507

Name of Operation: Redwood Empire Recycling

(Planned Facility)

Type of Operation: Transfer/Processing Facility

Operation Capacity: Capacity of facility not regulated under permit.

Anticipated Diversion Rate: Over 90% diversion.

**Anticipated Amount of Waste** 

From Jurisdiction to Facility: Approximately 1,500 tons annually

Type of Material: Curbside Residential and Commercial Recyclables

**Location of Operation:** 3400 Standish Ave

Santa Rosa, CA 95407

Name of Operation:

Northern Recycling Compost-Zamora

(SWIS #57-AA-0029, an Enforcement Agency

Notification)

Type of Operation:

Composting Facility.

**Operation Capacity:** 

Design Capacity of 100,000 cubic yards. Permitted tonnage of

300 tons per day and 120 vehicles per day.

**Anticipated Diversion Rate:** 

Over 90% diversion.

**Anticipated Amount of Waste** 

From Jurisdiction to Facility:

Approximately 20,000 tons annually.

Type of Material:

**Green Material** 

**Location of Operation:** 

11220 County Road 94, Zamora, CA 95698

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Name of Facility: Woodland Bio-Mass Power Limited

Type of Facility: Biomass Facility

Facility Capacity: 200,000 tons annually

Anticipated Diversion Rate: Greater than 95% Diversion

**Anticipated Amount of Waste** 

From Jurisdiction to Facility: Approximately 30,000 tons annually.

Type of Material: Woodwaste and other burnable items.

Location of Facility: 1786 E Kentucky Ave, Woodland, CA 95776

Name of Facility: West County Resource Recovery Facility Central Processing

Facility (SWFP # 07-AA-0034)

Type of Facility: Material Recovery Facility/Transfer Station

Facility Capacity: 1200 tons per day

Anticipated Diversion Rate: Approximately 85% Diversion

Anticipated Amount of Waste From Jurisdiction to Facility: Approximately 3500 tons annually

Type of Material: Curbside Residential and Commercial Recyclables

Location of Facility: 101 Pittsburg Ave., Richmond, CA 94801

Name of Facility: West Contra Costa SLF Composting Facility

(SWFP # 07-AA-0044)

Type of Facility: Composting Facility

Facility Capacity: 200 tons per day

Anticipated Diversion Rate: Greater than 95% Diversion

**Anticipated Amount of Waste** 

From Jurisdiction to Facility: Approximately 1,500 tons annually.

Type of Material: Green Materials

Location of Facility: Foot Of Parr Blvd., Richmond, CA 94801

Name of Facility:

Strategic Material

(No SWFP Required for this type of facility)

Type of Facility:

Recycling Facility

**Facility Capacity:** 

Not limited by permits

**Anticipated Diversion Rate:** 

Greater than 90% Diversion

**Anticipated Amount of Waste** 

From Jurisdiction to Facility:

Approximately 250 Tons Annually

Type of Material:

Recyclable Glass

Location of Facility:

1931 Fairway Drive, San Leandro, CA

Name of Facility: Smurfit Stone Container Corporation, Recycling Division

(No permit required for this type of facility)

Type of Facility: Recycling Facility

Facility Capacity: 15,000 tons per month

Anticipated Diversion Rate: Greater than 95% Diversion

**Anticipated Amount of Waste** 

From Jurisdiction to Facility: Approximately 1,500 tons annually

Type of Material: Curbside Residential and Commercial Recyclables

Location of Facility: 800 77<sup>th</sup> Avenue, Oakland, CA 94621

Name of Facility: Dutra Materials Richmond Quarry

(No SWFP Required, SMARA ID #91-07-0006 mining permit)

Type of Facility: Recycling of Concrete and Asphalt

Facility Capacity: Not limited by permits.

Anticipated Diversion Rate: Greater than 95%

**Anticipated Amount of Waste** 

From Jurisdiction to Facility: Approximately 2,000 Tons Annually

Type of Material: Concrete and Asphalt

**Location of Facility:** 961 Western Drive, Richmond, CA

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Name of Facility: Dutra Materials Petaluma Facility

(Planned only at this time)

Type of Facility: Recycling of Concrete and Asphalt

Facility Capacity: Under negotiation with Sonoma County

Anticipated Diversion Rate: Greater than 95%

**Anticipated Amount of Waste** 

From Jurisdiction to Facility: To Be Determined Once Facility is Operational

Type of Material: Concrete and Asphalt

Location of Facility: 3355 Petaluma Blvd. South, Petaluma, CA

Name of Facility: Sims Metal Management – Licensed Scrap Metal Dealer

(No permit required for this type of facility)

Type of Facility: Scrap Metal Purchasing and Export Yard

Facility Capacity: 1,000 tons per day

Anticipated Diversion Rate: 100% Recycled

**Anticipated Amount of Waste** 

From Jurisdiction to Facility: Approximately 300 tons annually

Type of Material: Scrap Metal

Location of Facility: 600 South 4<sup>th</sup> Street, Richmond, CA 94804

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## **APPENDIX B**

# REVISED HAZARDOUS AND SOLID WASTE JOINT POWERS AGREEMENT COUNTY OF MARIN

This Agreement is entered into this 1st day of July, 1996 pursuant to the provisions of Title 1, Division 7, Chapter 5, Article 1 (Section 6500 et seq.) of the California Government Code relating to the joint exercise of powers among the following parties: The County of Marin (hereafter referred to as the "County"), the Cities of Belvedere, Larkspur, Mill Valley, Novato, San Rafael, and Sausalito, and the Towns of Corte Madera, Fairfax, Ross, San Anselmo, and Tiburon (hereafter collectively referred to as the "Cities and Towns"), which are all within the County of Marin.

#### PREAMBLE

The principle objectives of the agencies signatory to this Agreement are as follows:

A. Scope of the Agreement. The principle responsibilities of the new Authority, established by this Agreement, are to meet the goals of the Source Reduction and Recycling Element mandated by State Public Resources Code Sections 40900 to 43000 and the adoption and implementation of the Household Hazardous Waste Element required by Sections 25135 to 25135.8 of the Health and Safety Code.

Responsibilities for programs in the Certified Unified Program Agency (CUPA), which include the Hazardous Materials Business Plan Program, Risk Management and Prevention Plan Program, Aboveground Storage Tank Program, Underground Storage Tank Program, the Hazardous Waste Generator Program and the Tiered Permit On-Site Treatment Program, are to be managed as provided for by state law. The City of San Rafael will continue to administer its own CUPA programs. The County will administer these programs for the remaining Cities and Towns.

Operation of a household hazardous waste collection program is also mandated by state law. The County, the Cities and Towns will establish a local program that is available to their residents.

- B. <u>Limiting Membership in the Authority</u>. Membership in the Authority will be limited to the County, the Cities and Towns. The districts included under the previous agreement are not signatories to this agreement and will not serve in any governing role. Representatives of the districts would continue to be included on the AB 939 Local Task Force.
- C. Governing Structure. The day-to-day administration of the Authority will be vested with an Executive Committee responsible to the Board of Directors for the administration and management of Authority affairs. The Executive Committee will be comprised of the Chair and Vice Chair of the governing Board plus three Board members from the County, the City of San Rafael and the City of Novato.

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The Board of Directors shall be comprised of one representative for each member agency. The Board member may be a member of the agency's City/Town Council or Board of Supervisors or the agency's staff.

A majority of the members of the Board of Directors will constitute a quorum for purposes of conducting business, and a majority of a quorum will be authorized to act on behalf of the Authority.

D. AB 939 Local Task Force. The Board will establish and be advised by an AB 939 Local Task Force, whose composition, duties and authority are specified in Public Resources Code Section 40950. The Task Force will include at least two representatives of waste haulers, one representative of an environmental organization, two representatives of special districts involved in the regulation and disposal of waste, and five public representatives appointed by the member agencies serving on the Executive Committee established in this Agreement.

If a conflict between this preamble and the specifications contained in Article 1 through Article 17 is presented, it is the intent of this Agreement that the Articles are to be considered determinative.

#### **ARTICLE 1: FACTS AND DECLARATIONS**

#### Solid Waste Management

WHEREAS, Sections 40900 to 43000 of the State Public Resources Code requires the County and each of its Cities to prepare, adopt, and implement source reduction and recycling elements and requires the County to prepare a county-wide siting element and a county integrated waste management plan; and

WHEREAS, the County, Cities, and Towns believe it would be to their mutual advantage and the public benefit to coordinate their power and authority to implement integrated waste management programs which meet the waste management requirements of State law; and

#### Hazardous Waste Management

WHEREAS, Government Code Section 66780.8 and Health and Safety Code Section 25135 through 25135.8 establishes a planning process and requirements for the preparation, adoption, amendment, administration, and enforcement of County hazardous waste management plans; and

#### Existing Solid Waste Management System

WHEREAS, an effective system of solid waste collection, recycling, diversion and disposal currently exists within the county involving the franchised waste haulers.

#### Role of Districts

WHEREAS, the Sanitary Districts of Almonte, Alto, Homestead Valley, Las Gallinas, Novato, and Ross Valley, and the Community Service Districts of Marin City and Tamalpais, and the Bolinas Community Public Utility District, and the Strawberry Recreation District and the Stinson Beach County Water District (hereafter collectively referred to as the "Districts") play a role in the regulation of the existing solid waste management system and will continue to exercise responsibilities in the effort to fully comply with State solid waste diversion goals; and

WHEREAS, the County, Cities and Towns acting through this Agreement intend to strengthen the existing solid waste management system in the operation and development of future waste management activities; and

#### Joint Planning and Implementation

WHEREAS, the County, Cities and Towns believe that many of the programs and facilities described in the above mentioned elements and plans will be both long-term and most cost-effectively provided on a multi-jurisdictional or county-wide basis; and

WHEREAS, the County, Cities and Towns believe that a separate, special purpose agency responsible for, and capable of, preparation, adoption, revision, amendment, administration, and enforcement of the Marin County Integrated Waste Management Plan and, the Marin County Hazardous Waste Management Plan (hereafter referred to as the "Plans"), and planning, financing, implementing, managing, and maintaining of the related programs would be most cost-effective on a County-wide basis; and

WHEREAS, the Joint Exercise of Powers Act (Government Code Section 6500 et seq.) provide for joint action by two or more public agencies, and Public Resources Code section 41823 authorizes a city or county or agency formed under a joint exercise of powers agreement for the purpose of preparing and implementing source reduction and recycling elements on a county-wide integrated waste management plan; and

WHEREAS, it is the intent of the contracting agencies to utilize these statutory authorizations in this Agreement; and

#### Public Involvement

WHEREAS, the County, Cities and Towns intend to encourage ongoing community involvement in the development and implementation of future solid and hazardous waste activities by utilizing an AB 939 Task Force, advisory committees, community meetings, and other similar mechanisms to obtain public participation in these activities; and

#### Legislation and Markets

WHEREAS, the County, Cities and Towns intend to actively promote markets for recycled materials and advocate legislation which furthers the reduce, reuse, recycle hierarchy; and

#### Promoting Cost Effective Programs

WHEREAS, in the planning and implementation of countywide programs, the County, Cities and Towns intend to give particular attention to the cost-effectiveness of programs; and

#### Sharing Of Costs In An Equitable Manner

WHEREAS, it is the intent of the County, Cities and Towns that costs for planning and implementing solid and hazardous waste programs will be based on a fair and equitable allocation system that considers previous investments of each member, the relative benefits to each member and the actual cost of service; and

NOW, THEREFORE, the Agencies agree as follows:

#### **ARTICLE 2: DEFINITIONS**

Certain words as used in this Agreement shall be defined as follows:

- A. "Agencies" shall mean the County, Cities and Towns.
- B. "Agreement" shall mean this agreement that establishes the County of Marin Hazardous and Solid Waste Joint Powers Authority.
- C. "Authority" shall mean the County of Marin Hazardous and Solid Waste Joint Powers. Authority.
- D. "Board" shall mean the governing body of the County of Marin Hazardous and Solid Waste Joint Powers Authority.

- E. "County" shall mean the County of Marin.
- F. "Cities" shall mean the cities of Belvedere, Larkspur, Mill Valley, Novato, San Rafael, and Sausalito.
- G. "Towns" shall mean the Towns of Corte Madera, Fairfax, Ross, San Anselmo, and Tiburon.
- H. "Executive Committee" shall mean the committee composed of the Chair and Vice-Chair of the Governing Board plus three additional members of the Governing Board as appointed by the Governing Board.
- I. "Hazardous Waste Facility" shall mean a facility which includes all contiguous land and structures used for the handling, treating, recycling, storing or disposing of hazardous wastes.
- J. "Members" shall mean the County, Cities or Towns which are signatories to this Agreement.
- K. "Quorum" shall mean a majority of the Board Members.

#### **ARTICLE 3: PURPOSE**

#### 3.1 Purpose of Agreement

The purpose of this Agreement is to establish a public entity separate from the County and each of the Cities and Towns. This public entity is to be known as the County of Marin Hazardous and Solid Waste Joint Powers Authority (hereafter referred to as the "Authority").

#### 3 2 Purpose of Authority

The purpose of the Authority shall be to comply with Sections 40900 to 43000 of the Public Resources Code, Section 66780.8 of the Government Code and Health and Safety Code Sections 25135 through 25135.8.

- a. Prepare, adopt, revise, amend, administer and enforce hazardous waste and solid waste plans.
- b. Plan, finance, implement, manage and/or monitor multi-jurisdictional or countywide programs and facilities related to the plans.
- c. And other new requirements imposed on the member agencies by future acts of the State or Federal Government as agreed by the member agencies.

#### 3.3 Member Programs

It is recognized that members, such as the City of San Rafael, operate required programs outside the scope of this Agreement, such as administering a hazardous materials and an underground storage tank program and other programs covered by the Certified Unified Program Agency (CUPA).

## ARTICLE 4: CREATION OF MARIN COUNTY WASTE MANAGEMENT AUTHORITY

#### 4.1 <u>Creation of Authority</u>

There is hereby created by the County, Cities and Towns of Marin the Marin County Hazardous and Solid Waste Management Authority to exercise in the manner set forth in this Agreement the powers common to each of the Agencies.

#### 4.2 Separate Entity

The Authority shall be a public entity separate from the Agencies. Pursuant to Government Code Section 6503.5, notice of the Agreement shall be filed with the Secretary of State within 30 days of this Agreement's effective date. Pursuant to Government code Section 6508.1 the debts, liabilities and obligations of the Authority shall not constitute the debts, liabilities or obligations of any parties to the Agreement.

#### ARTICLE 5: POWERS OF THE AUTHORITY

#### 5.1 General Powers

The Authority shall have any and all powers authorized by law to the parties and may:

- a. Prepare, adopt, revise, amend, administer and enforce the provisions of the Plans,
- b. Evaluate and recommend programs designed to achieve compliance with AB 939 in a cost effective manner;
- Implement those programs for member agencies that choose to participate under section 6.2 of this Agreement;
- d. Advise the members on issues related to regional hazardous and solid waste facilities and programs;
- e. Advocate the interests of the members related to regional hazardous and solid waste facilities and programs with local, state and federal officials;
- f. Plan for regional hazardous and solid waste facilities and programs;
- g. Develop regional hazardous and solid waste programs;

- h. Develop markets for the reuse of recyclable materials;
- i. Contract for the operation of regional hazardous and solid waste facilities and programs;
- j. Regulate rates of regional hazardous and solid waste facilities and programs;
- k. Advise on matters of hazardous and solid waste rates and charges.

Nothing in this Agreement shall be construed to authorize franchise of solid waste collection.

#### 5.2 Specific Powers

In carrying out its general powers granted pursuant to the statutes noted in Section 5.1, the Authority is hereby authorized to perform all acts necessary for the exercise of said powers which may include but are not limited to the following:

- a. Adopt ordinances and resolutions,
- b. Monitor pertormance,
- c. Make and enter into contracts,
- d. Apply for and accept grants, advances, and contributions,
- e. Employ or contract for the services of agents, employees, consultants and such other persons or firms as it deems necessary,
- f. Conduct studies.
- g. Acquire, hold or dispose of property,
- h. Sue and be sued in its own name,
- i. Appoint and retain legal counsel as necessary to fulfill its powers, duties and responsibilities under this Agreement
- j. Incur debts, liabilities or obligations subject to limitations herein set forth,
- k. Levy and collect fees and charges, including administrative and operating costs, as provided in this Agreement or by law, against all entities to which the Agreement or law applies,
- 1. To adopt, as authorized by law, ordinances or resolutions necessary to carry out the purposes of this Agreement,
- m. Issue bonds, subject to the provisions and limitations of the Government Code of the State of California,
- n. Adopt annually, by July 1 of each fiscal year, an annual workplan and corresponding budget setting forth all administrative, operational and capital expenses for the Authority, and
- o. Implement the programs authorized in Article 6, and
- p. Indemnify the member agencies pursuant to Article 10.

#### 5.3 By-Laws

The Board may adopt from time to time such policies, procedures, by-laws, rules or regulations for the conduct of its affairs as may be required.

## ARTICLE 6: PROGRAMS OF THE AUTHORITY

#### 6.1 Basic Programs of the Authority

It is agreed that the following functions will form the basic minimum programs to be undertaken by the Authority on behalf of all of the member agencies.

- a. <u>Administration</u>. Administrative functions of the Authority as related to this section.
- b. Planning Preparation, amendment, administration and monitoring of the county-wide portions of the AB939 plans. This includes: the Source Reduction and Recycling Element, the Household Hazardous Waste Element, the Solid Waste Facility Siting Element, the Non-Disposal Facility Element and the Countywide Integrated Waste Management Plan.
- c. <u>Monitoring and Reporting</u>. Comply with the requirements of the various identified statutes to maintain and report on efforts to meet the waste diversion goals of State law.
- d. <u>Compliance Review</u>. Develop, evaluate and recommend various programs designed to bring about compliance with AB 939 requirements for member agencies that choose to participate under section 6.2.
- e. <u>Legislation</u>. Track legislation pertaining to hazardous and solid waste issues and recommend position statements to the Board of Directors.

### 6.2 Agency Election to Participate in Authority Programs

Except for the basic programs listed in Section 6.1 above, member agencies may, by formal action of their governing boards, choose whether or not they wish to participate in and fund programs to be developed by the Authority.

#### 6.3 Contract with County and/or Others

The Authority intends to contract with the County and others to perform the programs as listed in Section 3.2, "Purpose of Authority" and the "Basic Programs" of the Authority listed in Section 6.1. of this Agreement.

#### ARTICLE 7: ORGANIZATION OF AUTHORITY

#### 7.1 Members

- a. The County, Cities and Towns may enter into this Agreement by July 1, 1996.
- b. The County, and any City or Town may be considered for membership in the Authority after July 1, 1996, by presenting an adopted resolution to the Board which includes a request to become a member of the Authority and Board and upon a majority affirmative vote of a quorum of the Board accepting the County, City or Town and upon payment of any charges and upon satisfaction of any conditions established by the Board as a prerequisite for membership.

#### 7.2 Board

- a. The Authority shall be governed by the "Board" which shall exercise all powers and authority on behalf of the Authority.
- b. The Board shall consist of one member of the governing body or the chief administrative officer of the County and each of the Cities and Towns which are party to this Agreement. Upon execution of this Agreement, the governing body of the County and each of the Cities and Towns shall appoint its member of the Board and another member to serve as an alternate to the Board, to serve in the absence of the regular member. Each member and alternate shall serve at the pleasure of the governing body of the appointing agency. Any change in appointment of a member or alternate shall be by action of the governing body of the appointing agency.
- c. A majority of the members of the Board shall constitute a quorum for the transaction of business. The Authority shall act upon majority vote of those in attendance, each member having one vote, of the members of the Board.
- d. The Board shall elect by majority vote, from its members, a Chair and Vice Chair. The Chair shall represent the Authority and execute any contracts and other documents when required by the Rules of Procedure and/or By-Laws. The Vice-Chair shall serve in the absence of the Chair.

#### 7.3 Executive Committee

- a. The Executive Committee shall be responsible to the Board for the administration and management of Authority affairs, for the provision of assistance and advice to the Board.
- b. The Executive Committee shall be composed of the Chair and Vice-Chair plus three other members of the Governing Board elected by the Board. Three of the

committee members must be from the County, San Rafael, and Novato. One representative shall be selected by the Southern Marin cities of Sausalito, Tiburon, Belvedere and Mill Valley. One representative shall be selected by the Ross Valley cities of Ross, San Anselmo, Fairfax, Larkspur and Corte Madera.

- c. Three members of the Executive Committee shall constitute a quorum for the transaction of business. No action shall be taken by the Executive Committee except upon a majority affirmative vote of the quorum (each member having one vote) of the members of the Executive Committee.
- d. Members shall serve two-year terms and may be reappointed.

#### 7.4 Additional Committees

- a. The member agencies shall establish an AB 939 Local Task Force whose composition, duties and authority are described in Public Resource Code Section 40950. The Task Force so established shall be advisory to the Governing Board established under this Agreement.
- b. The AB 939 Local Task Force shall include at least two representatives of waste haulers, one representative of an environmental organization two representatives of special districts involved in the regulation and disposal of waste, and five public representatives appointed by the member agencies serving on the Executive Committee established under this Agreement.
- c. In addition to the Executive Committee and an AB 939 Local Task Force, the Board may from time to time establish additional committees to carry out Authority purposes, and appoint committee members from the Board, the legislative bodies or administration of member agencies, Authority staff, and/or staff of the member agencies. The Board may also establish and appoint members to citizen's advisory committees as deemed appropriate.
- d. To the extent practical, the Board shall appoint members to committees in such a manner as to encourage the broadest possible participation of the member agencies.

#### ARTICLE 8: MEETINGS AND REPORTS

#### 8.1 Board Meetings

- a. The Board shall hold at least one (1) regular meeting each year as determined by the by-laws.
- b. Special meetings of the Board may be called in accordance with the provision of Section 54956 of the California Government Code.

- c. All meetings of the Board shall be held subject to the provisions of the Ralph M. Brown Act (Sections 54950 et. seq. of the California Government Code), and other applicable laws of the State of California requiring notice be given of meetings of public bodies.
- d. Minutes of all Board meetings will be kept and shall, as soon as possible after each meeting, be forwarded to each member and alternate member of the Board.
- e. The Chair of the Board shall cause correspondence to be prepared and delivered as directed by the Board.
- f. The public agency with whom the Authority contracts with to provide services shall be the keeper of the official records of the Authority.

#### 8.2 <u>Executive Committee Meetings</u>

- a. The Executive Committee shall hold at least one (1) meeting each quarter
- b. Special meetings or the Executive Committee may be called by the Chair, or by a majority of the members of the Executive Committee or at the direction of the Board.
- Minutes of all Executive Committee meetings will be kept and shall, as soon as possible after each meeting, be forwarded to members of the committee and to each member and alternate member of the Board.

#### 8.3 Other Committee Meetings

- a. Other Committee's shall hold meetings as may be called by the Committee Chair, or a majority of the members.
- b. Minutes of all meetings will be kept and forwarded to members of the committee and to each member and alternate of the Board.

#### 8.4 Progress Reports

At least annually, a report on the progress toward achieving the diversion goals of state law shall be prepared and distributed to members of the Governing Board.

#### ARTICLE 9: FUNDING

#### 9.1 <u>Authority Budget</u>

The Board shall adopt an annual budget for the Authority's activities within ninety (90) days of the effective date of this Agreement and by June 1 of each succeeding year. Public funds may not be disbursed by the Authority without adoption of the approved budget and all receipts and disbursements shall be in strict accordance with the approved budget. The budget shall identify

the programs of the Authority and allocate funds by program. The budget and accounting system shall account for direct and overhead costs by program. The Board shall allocate these costs for each program with the adoption of the annual budget.

#### 9.2 Funding of the Authority

The Authority has the need and legal authority to levy fees and charges for programs, services and permits. The Authority is authorized to levy fees for only those programs identified in Section 6.1. Basic Programs of the Authority, and Section 6.2, Agency Election to Participate in Authority Programs. The funding for programs identified in Section 6.1 should be as specified in Section 9.2.B. The Authority is also authorized to levy fees and charges for administrative activities, permits and programs with independent funding.

- a. The Basic Programs of the Authority defined in Section 6.1 shall be funded as follows and adjusted annually as may be needed to fund the Basic Programs.
  - Marin County. The tee shall be based on a rate per ton of solid waste collected and disposed based on the 1994 disposed tonnages listed on Exhibit A attached to this Agreement. Exhibit A shall be amended within ninety (90) days after a member agency approves a new franchise and a fee shall be established in a manner determined by the Executive Committee. The base year will be adjusted every two years starting in July 1, 1998 based on the most recent state certified tonnages. The fee is to be paid in two equal payments due July 30 and January 30 of each year.
  - ii. A fee shall be charged at all permitted landfills in Marin County to all non-franchised haulers. The fee shall be based on a rate per ton for all tons of waste disposed at the landfill. The landfills shall forward these fees collected on a monthly basis.
- b. The Authority is authorized to establish additional programs as defined in Section 6.2 with the approval of the Board of Directors and the individual Authority members participating in any such additional programs. The funding mechanism for any additional programs shall be developed as a component of every additional program and must have approval by the Board of Directors and each member agency participating in any additional program. All costs including overhead or administration of any additional program shall not be charged to the Basic Programs.
- c. The Authority may charge fees to the extent allowed by law for administrative services rendered to the public or any member agencies such as, but not limited to, copying, processing fees, legal costs, preparation of reports, etc. The Authority

may also charge to the extent allowed below for programs intended to be fully cost covering, such as permit fees, applications, EIRs, educational materials, such as decals and pamphlets, monitoring of any programs, permits or application approvals. All fees under this Section shall be approved by the Board of Directors in conjunction with the annual adoption of this Authority's budget.

#### 9.3 <u>Duties of Treasurer</u>

- a. The Board shall appoint a Treasurer from among the senior management staff of the member agencies. The Treasurer shall be either the County Auditor/Controller, or the Treasurer Tax Collector or the Finance Director of one of the members.
- b. The Treasurer shall serve as the depository and have custody of all Authority funds and establish and maintain such books, records, funds, and accounts as may be required by reasonable accounting practice, Government Code section 6505.—The books and records of the Authority shall be open to inspection at all reasonable times to the County, Cities, and Towns and their representatives.
- c. The Treasurer, within ninety (90) days after the close of each fiscal year (which shall be from July 1 to June 30), shall give a complete written report of all financial activities for such fiscal year to the County, Cities, and Towns.
- d. The Treasurer shall prepare such financial reports as may be directed by the Board or Executive Committee.
- e. The Treasurer shall cause an independent annual audit of the accounts and records to be conducted by a certified public accountant in compliance with the requirements of section 6505 of the Government Code and generally accepted auditing standards.

#### 9.4 Debts and Liabilities

No debt, liability, or obligation of the Authority shall constitute a debt, liability, or obligation of any Agency and each party's obligation hereunder is expressly limited only to the appropriation and contribution of such funds as may be levied pursuant to this Agreement or as the parties hereto may agree.

#### 9.5 <u>Disposition of Authority Funds Upon Termination</u>

a. In the event of termination of the Authority where there is a successor public entity which will carry on the activities of the Authority and assume its obligations, Authority funds, including any interest earned on deposits, remaining upon

- termination of the Authority and after payment of all obligations shall be transferred to the successor public entity.
- b. If there is no successor public entity which would carry on any of the activities of the Authority or assume any of its obligations, Authority funds, including any interest earned on deposits, remaining upon termination of the Authority and after payment of all obligations, shall be provided in proportion to the contribution of each agency's ratepayers contributed during the term of this Agreement. Any such Authority funds received in this manner shall be used to defray the Agency's cost of hazardous and solid waste management programs or facilities.
- c. If there is a successor public agency which would undertake some of the functions of the Authority and assume some of its obligations, Authority funds, including any interest earned on deposits, remaining upon termination of the Authority and after payment of all obligations, shall be allocated by the Board between the successor public entity and member agencies.
- d. In the event the Authority is terminated under circumstances falling with (b) or (c) above, all decisions of the Board with regard to determinations of amounts to be transferred to member agencies or any successor shall be final.

#### 9.6 Financial Liability of Member Agencies

In the event of a default by the Authority, the member agencies shall be liable for the Authority's debts in a proportion equal to the contribution of each agency's ratepayers to the funding of the Authority.

#### ARTICLE 10: INDEMNIFICATION

The Authority shall acquire such insurance protection as is necessary to protect the interest of the Authority, the County, Cities, Towns and the public. The Authority created by this Agreement shall assume the defense of and indemnify and save harmless the County, Cities, Towns and each of their respective officers, agents and employees, from all claims, losses, damages, costs, injury and liability of every kind, nature and description directly or indirectly arising from the performance of any of the activities of the Authority or the activities undertaken pursuant to this Agreement.

#### ARTICLE 11: EFFECTIVE DATE

This Agreement shall become effective when two-thirds (2/3) of the Cities, Towns and the County execute the Agreement, but not before July 1, 1996.

#### **ARTICLE 12: TERMINATION**

This Agreement may be terminated by the Board upon notice of withdrawal being received from a majority of the member agencies. Upon termination, payment of the obligations and division of the property of the Authority shall be conducted pursuant to Section 9.5 of Article 9 of this Agreement.

#### **ARTICLE 13: AMENDMENTS**

This Agreement may be amended only upon the two-thirds (2/3) affirmative vote of the Board.

#### ARTICLE 14: WITHDRAWAL

Any City, Town, or the County may withdraw from this Agreement effective July 1st of any year upon ninety (90) days, prior to the end of the fiscal year, written notice to the Authority. Upon withdrawal, a City, Town, or the County retains its financial obligations for current contracts executed to fulfill this Agreement, assumes responsibility for its obligations under AB 939, and assumes that responsibility at its own expense.

#### ARTICLE 15: SEVERABILITY

If any provision of this Agreement or its application to any person or circumstances is held invalid, the remainder of this Agreement and the application of the provision to other persons or circumstances shall not be affected.

#### ARTICLE 16: NOTICES

All notices to Agencies shall be deemed to have been given when mailed to the governing body of each agency.

## ARTICLE 17: AGREEMENT COMPLETE

The foregoing constitutes the full and complete Agreement of the parties. There are no oral understandings or agreements not set forth in writing herein.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed by their proper officers thereunder duly authorized and effective as of the date of execution of all parties hereto.

COUNTY OF MARIN	Handl Brown Jr.
Date04-09-96	By Armst
	CHAIRMAN
CITY OF BELVEDERE	Le DOS
Date <u>5.22.96</u>	By Meyer 1. Johnson
CITY OF LARKSPUR	
Date Mary 15, 1446	By January Tandal
CITY OF MILL VALLEY	
Date May 22, 1996	By
CITY OF NOVATO	By Hay Palleins Mayor Proten
Date <u>4/23/96</u>	By Tax Chellena Magor 100 TEN
CITY OF SAN RAFAEL	
Date 5/22/9	By The By
CITY OF SAUSALITO	11/1/ Petr
Date 6/6/96	By Muny
TOWN OF CORTE MADERA	Fish a by man
Date 5/1/96	By pinan 11. Manarow
TOWN OF FAIRFAX	A Link
Date 5/22/96	By Jugus Mar
TOWN OF ROSS	00000
Date 7/13/96	By Ally Or
TOWN OF SAN ANSELMO	OA RO
Date 5-23-96	By Selle Volla
TOWN OF TIBURON	Michy Will
Date 4/8/96	Ву

### **APPENDIX C**

Name of Facility:

Redwood Landfill – Biosolids Co-Composting Facility

(SWFP # 21-AA-0001)

Type of Facility:

Composting

**Facility Capacity:** 

Current: 170 tons per day of feedstock

Planned: potentially up to 514 tons per day of feedstock.

**Anticipated Diversion Rate:** 

Greater than 95% Diversion

Type of Material: active and finished

Green/yard/wood waste, food waste, Class B \_\_Biosolids, and

compost

**Participating Jurisdictions:** 

The Marin County Hazardous and Solid Waste Management

Joint Powers Authority

Location of Facility:

8950 Redwood Highway, Novato, CA 94945

Name of Facility:	Redwood Landfill – Material Recovery Facility
110000	(Planned Facility*)
Type of Facility:	Material Recovery Facility
Facility Capacity:	400 tons per day of feedstock
Anticipated Diversion Rate:	Approximately 70% Diversion
Type of Material:	Construction/demolition, wood waste, and other debris related
Type of Materials	materials.
Participating Jurisdictions:	The Marin County Hazardous and Solid Waste Management
	Joint Powers Authority
Location of Facility:	8950 Redwood Highway, Novato, CA 94945

<sup>\*</sup> Currently permitted to accept up to 400 tons per day of non-hazardous separated or commingled materials for recycling until Material Recovery Facility is permitted and operational. (See JTD, Table 5-6, dated November 17, 2008.)

## MARIN COUNTY HAZARDOUS AND SOLID WASTE MANAGEMENT JOINT POWERS AUTHORITY

Belvedere:

George Rodericks

Date: January 28, 2010

Corte Madera:

**David Bracken** 

To: JPA Board

County of Marin: **Matthew Hymel** 

From: Michael Frost

Fairfax: Michael Rock Re:

Larkspur: **Robert Sinnot** 

FY 10-11 Budget Process and Workgroup

Mill Valley:

**Anne Montgomery** 

Novato: Michael Frank

Ross: **Gary Broad** 

San Anselmo: **Debbie Stutsman** 

San Rafael: Ken Nordhoff

Sausalito: **Adam Politzer** 

Tiburon: **Margaret Curran** 

At their January 20, 2010 meeting the Executive Committee appointed Debbie Stutsman and George Rodericks as the Executive Committee's budget subcommittee. The Committee also approved the following budget schedule:

- 1. February 20, 2010, San Rafael Fire Department submits budget request to JPA staff.
- 2. March 19, 2010, JPA staff submits budget request and fee resolution to Executive Committee budget subcommittee.
- 3. Budget subcommittee meets with staff before April 14, 2010 for review and approval.
- 4. April 14, 2010, budget and fee resolution approved by Executive Committee.
- 5. May 27, 2010, budget and fee resolution adopted by full JPA Board.

In addition to the regular responsibilities of the budget subcommittee the group has been directed to develop a matrix of costs and prioritize the menu of programs recommended in the Zero Waste Feasibility Study. It may be desirable to form a working group of this Board's selection to review recommended Zero Waste programs, prioritize, and make recommendations to the budget subcommittee. Staff requests your Board to provide direction.

Chief Chris Grey, San Rafael Fire Department CC: Captain Bradley Mark, San Rafael Fire Department

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### MARIN COUNTY HAZARDOUS AND SOLID WASTE MANAGEMENT JOINT POWERS AUTHORITY

Belvedere:

George Rodericks

January 28, 2010

Corte Madera:

To: JPA Board

**David Bracken** 

From: Michael Frost

County of Marin: Matthew Hymel

Final Draft Zero Waste Feasibility Study Re:

Fairfax: Michael Rock

Larkspur: Robert Sinnot

Mill Valley: **Ann Montgomery** 

Novato: Michael Frank

Ross: **Gary Broad** 

San Anselmo: **Debbie Stutsman** 

San Rafael: Ken Nordhoff

Sausalito: Adam Politzer

Tiburon: Margaret Curran Attached is the final draft of the Zero Waste Feasibility Study (Exhibit A) the JPA commissioned with R3 Consulting Group. Your Executive Committee has reviewed and commented on this study, and recommends your Board take the following action:

1. Accept the study.

Direct staff and your Budget Sub-committee to include in next 2. year's Budget Request additional staffing and resources to increase coordination in Marin on zero waste, and to include in next year's budget funding to be granted to local municipalities to implement programs outlined in this study.

At your Executive Committees' request, the comment period was extended to November 10, 2010. All comments (Exhibit B) have been responded to and are incorporated into the report. The study and comments are posted on the JPA's website - marinrecycles.org.

During the past year, R3 with the cooperation and assistance of your staff met and solicited comments regarding zero waste from the known stakeholders in Marin. Counting today's second presentation to your Board, R3 and your staff have conducted nine public meetings on this study. With cooperation and assistance from local cities in Marin. haulers, Local Task Force (LTF), special districts, and concerned citizens, R3 was able to complete the study on schedule that outlines Marin's strengths and weaknesses in waste reduction. The attached study and executive summary outline R3's conclusions and recommendations. R3 concludes that it is possible for Marin County to reach zero waste goals.

Aside from the financial issues, clearly three of the major challenges for Marin in addressing zero waste goals are:

A. The multiple and diverse municipalities, special districts, haulers and 25 franchising agencies that need to coordinate to present a consistent approach to reducing

waste. For example, the City and County of San Francisco has already adopted a composting program that includes food and green waste. However, the City and County of San Francisco is one agency, with one hauler.

- B. Marin lacks local facilities for composting food and/or green waste. This is not unique to Marin, but trucking Marin waste long distance limits the environmental benefits.
- C. Creating consumer behavior changes that will reduce their environmental impact.

Topic "A" above is probably the most unique and administratively complex. In their study, R3 recommends the JPA be given more authority to implement many of the steps R3 recommends as necessary to achieve Marin's Zero Waste goals.

At your Executive Committees' request, the JPA's legal counsel reviewed the draft Zero Waste Feasibility Study for compatibility with the existing JPA articles and whether its existing powers allow the JPA to address recommendations contained in the zero waste feasibility study.

Counsel's opinion is that the existing agreement allows for new programs as outlined in the Zero Waste Study, as long as they are consistent with the purpose and powers of the JPA in achieving compliance with AB 939. Counsel noted the purpose of the JPA agreement refers to and includes "new requirements imposed on member agencies by future acts of the State and Federal Government as agreed by the member agencies." Therefore it would follow that new programs which do not fit under that description would be of a voluntary nature in regard to each member's participation to the extent that such programs extend beyond what is required by State and Federal law. This concept would be similar to the Household Hazardous Waste Program currently administered by the JPA. As you are aware, San Rafael Fire Department administers the HHW for the JPA, except Novato who operates a separate program and is granted funds by the JPA.

Counsel cautioned that the existing JPA agreement provides that the JPA shall indemnify and hold harmless member agencies. This indemnification provision would indicate that the JPA consider carefully the possible funding of programs for a member agency to individually administer. For example, should the JPA decide to consider the granting of funds to programs for, e.g., a city to administer, the JPA may wish to consider options to address the potential liability involved.

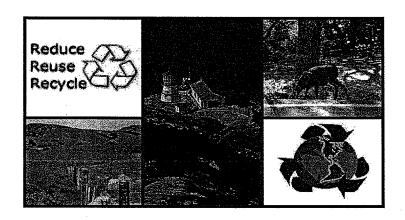
JPA staff will be looking at other regional agencies, specifically the Alameda Waste Management Authority who currently operate with a significantly larger budget, for applicability in Marin. Should the JPA desire to expand its budget and programs, Alameda's program might provide a template on which programs are best administered centrally, and other programs that are better administered at each municipality.

#### **Attachments**

#### **EXHIBIT A**

# Marin County Hazardous and Solid Waste Management JPA

Final Draft Zero Waste Feasibility Study



Presented by R3 Consulting Group

December 2009

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## **Executive Summary**

#### Overview

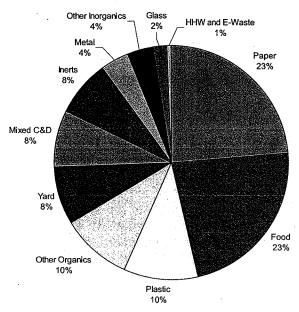
The Marin Hazardous and Solid Waste Management Joint Powers Authority (JPA<sup>1</sup>) has established a Zero Waste Goal of achieving 80 percent waste reduction in the next five years and zero disposal by 2025. To address how best to meet this Zero Waste Goal, the JPA has initiated a two-phase process. Phase I, the "Zero Waste Feasibility Study", focuses on establishing programs and policies to strengthen the countywide framework for meeting the Phase 11 will focus implementation of specific programs and policies by the Member agencies and the JPA to meet the Goal.

On a countywide basis, the Member Agencies. Special **Districts** (e.g., Sanitary Districts), and the JPA have successfully implemented programs to comply with the Integrated Waste Management Act's (AB 939) requirements of diverting from landfill 50 percent of waste generation. Regional Agency, comprising of all the communities in Marin County, the JPA reports diversion progress the California Integrated Waste Management Board (CIWMB) on a countywide basis.

The most recent calculated diversion rate by the CIWMB was for 2006, and the JPA had a diversion rate of 72 percent. Although the diversion rate is high, the amount of material disposed

over the past 13 years has remained fairly level at about 229,000 tons. As seen in Figure 1, the major categories of disposed materials are: Food Waste. Organics and Yard Waste --Paper -- 23%. Inerts and Mixed C&D --16% and Plastics -- 10%. recommendations developed as part of this Zero Waste Feasibility Study specifically reduction target and diversion of these disposed materials.

#### Figure ES - 1 Materials Disposed



#### **Key Findings**

- JPA Resources. Currently, the JPA does not have the direction or staffing needed to effectively work on a countywide level and achieve the recommendations. Unless there is a strengthening of the JPA's role to assist. Member Agencies in implementing the recommendations, it is unlikely that the Zero Waste Goal will be met, and the status quo will continue.
- Program Consistency. It will also be necessary for the JPA, Member

<sup>&</sup>lt;sup>1</sup> The JPA is comprised of 12 Member Agencies: Belvedere, Corte Madera, Fairfax, Larkspur, Mill Valley, Novato, Ross, San Anselmo, San Rafael, Sausalito, Tiburon and unincorporated Marin County. Within these areas, six haulers operate 26 franchise service areas with varying programs and requirements.

Agencies, and haulers to implement programs and policies that are consistent countywide. The Member Agencies will need to adopt or revise ordinances, and modify their franchise agreements to establish the framework and standards for their waste reduction and diversion programs to meet the Zero Waste Goal.

- **Economies** of Scale. Some programs, such as ordinance enforcement and public education of programs, would be more efficiently and cost-effectively managed at the JPA countywide level than independently by each Member Agency. In addition, many of the policy related programs can be better and cheaper if administered at a countywide level.
- Short and Long-Term Programs. A balance will have to be drawn for short-term and long-term programs and policies that address eliminating the creation of waste (up-stream, but long-term implementation) and the disposal and diversion of waste (down-stream, but short-term implementation). Up-stream programs include public education promote efforts that reduced consumption. Extended Producer Responsibility (EPR) policies that product promote redesign hazardous materials, product bans, etc. Down-stream programs include increasing the types of materials collected by haulers (e.g., food), revising franchise agreements and

- ordinances to reflect industry standards and establish waste reduction and diversion requirements, implement food waste digestion and composting, etc.
- <u>Diversion Facilities.</u> Approximately 56 percent, or 128,000 tons of food, yard, organic waste, inerts, and mixed C&D were disposed at landfill. In order to meet the Zero Waste Goal, reduction and processing of these targeted materials is critical. However, currently there is insufficient capacity for the facilities located within the County to process these materials and it may be necessary to transport these materials to out-of-county facilities.
- Public Education. Finally, and most importantly, for both Phase I and Phase II programs to be successful, public education must be strong and consistent among Member Agencies, and be continuous.

#### Recommendations

There are 18 recommendations that will help the JPA achieve the Zero Waste Goal. Phase I recommendations are intended to provide the JPA with clear direction and support to provide assistance to Member Agencies, and for the Member Agencies to begin taking the additional steps to meet the Zero Waste Goal. Phase II recommendations address the implementation up-stream and down-stream waste prevention and diversion programs.

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	JPA	Member Agencies	Haulers (Via Member Agencies)
Phase I	Recommendations #1-5	Recommendations #6-10	None
Phase II	Recommendations #11	Recommendation #18	Recommendations #12-17

Table ES-1 identifies the recommendations to be implemented by the responsible party. Recommendations are briefly explained following the table.

#### PHASE I

## 1. Increase JPA Program Assistance with Other County Departments

The County Departments that manage the used oil block grant, collection sustainability and teams operate separately from the JPA and do not consistently share information and aid program administration. Because meeting the Zero Waste Goal involves materials targeted in such programs, it is important for the JPA to be informed of collection results for programs such as used oil, sharps, etc., and be able to assist in public outreach on a countywide basis, as needed, to prevent waste generation and promote proper disposal of such material.

## 2. Increase JPA Staffing and Their Role in Assisting Administration of Member Agency and Countywide Programs

The Member Agencies currently do not have the resources to monitor all hauler and ordinance program performance or implement new programs. If adequately staffed, the JPA could cost-effectively assist the Member Agencies in program support such as compliance with the C&D ordinance. monitoring hauler contracts, public education, etc. Having a greater assistance role will help insure that the programs are consistent and potentially lead to higher diversion and impact on waste reduction, and formal action from the Member Agencies is necessary for this to occur.

## 3. Increase the Frequency of Board of Directors Meetings

Increasing the number of meetings held will enable the Board of Directors and Member Agencies to be more involved in addressing Zero Waste issues and provide the JPA with more constant contact with the administrators throughout policies the County. Currently, the Board of Directors is the main contact that the JPA staff have with the Member Agencies and as recommendations are implemented and JPA seeks direction for the County, having increased communication and interaction will be essential. increased meetings would be tied to defining the goals of the JPA and any associated staff and time needs. The increased communication could lead to improved partnership with Member Agencies and effective more implementation of programs. The Board of Directors may wish to consider developing a subcommittee to address the goals of this recommendation.

## 4. Help with Siting/Permitting Processes of a) Solid Waste Facilities and b) Non-Solid Waste Facilities

A. The haulers operating in the County have the opportunity to transport material such as green waste and food waste out of the County for composting or other diversion. However, because the franchise agreements do not require specific diversion of these materials and the cost impacts of transporting material, the material is not being diverted in the amount it could. The lack of the necessary infrastructure in the County is a constraint for the JPA to achieve high diversion programs unless franchise agreements require transporting the material

diversion facilities. The JPA could assist prospective facilities with the siting process, but it should be noted that such a facility would be hard to site in the County due to land use and environmental issues.

B Non-solid waste facilities for materials, such as salvaged construction and demolition material, should be helped by JPA staff to identify potential sites and work with Member This type of facility Agencies. retail-focused includes businesses that promote reuse that do not require processing of The JPA should materials. continue to play an active role in helping site new facilities that provide diversion and reuse opportunities to the region. These facilities will also help create "green jobs" in Marin County.

#### 5. Support Extended Producer Responsibility (EPR) and Waste Reduction Policies at State and National Level

The JPA has been active in supporting legislation that helps eliminate hazardous materials from the disposal waste stream. The JPA should continue this activity and also support any national legislation that might positively affect the JPA's Zero Waste Goals. In addition, individual Member Agencies should support these efforts as well Extended Producer through Responsibility resolutions and letter campaigns for products, such fluorescent lighting and paint.

#### 6. Revise Solid Waste Ordinances

The solid waste industry and regulations have changed considerably since 1990. However, the ordinances that regulate the hauler franchise agreements in

some cases have not been updated for 45 years. Extensive revisions will likely be necessary for the ordinances so that address construction and thev mandatory recycling. demolition. diversion requirements, etc. Addressing these issues in the ordinance will set the implementing framework for diversion programs and revising franchise agreements. Another method to consider including is the requirement commercial and multi-family dwelling material all is sorted before disposal to reclaim recyclable material. These sectors dispose of highly recyclable material, such as paper, that could be diverted through the sorting process.

## 7. Revise Franchise Agreement Language

Franchise agreements can be designed to encourage "green" operations and encourage maximum diversion. Many of the franchise agreements are lacking provisions that address collection hours. type of fuel vehicles use, vehicle noise and weight, explicit list of recyclable materials, diversion standards, required diversion programs, public education requirements, solid waste hierarchy. customer or hauler incentives promote diversion, etc. Another method to consider including is the requirement multi-family commercial and dwelling material all is sorted before disposal to reclaim recyclable material. These sectors dispose of highly recyclable material, such as paper, that could be diverted through the sorting process.

## 8. Adopt, Enforce, and Homogenize the Construction and Demolition Ordinance

The diversion of construction and demolition materials may not occur unless all Member Agencies adopt and enforce C&D ordinances. With only five Member Agencies adopting the

ordinance and having varying requirements, diversion of construction and demolition material is not maximized and contractors and haulers could be confused with the various requirements. Construction demolition material has local facilities to be processed at and the absence of countywide ordinances reauirina diversion misses an opportunity for effective immediate and diversion. Public education and enforcement of the haulers and permittees is an essential component to the success of the diversion.

#### 9. Adopt and Enforce Multi-Family Dwelling and Business Recycling Ordinance

With single-family residential customers currently serviced with comprehensive diversion opportunities. multi-family dwellings and businesses are the next sectors that can achieve high diversion. Currently multi-family dwellings and businesses dispose significant amounts of recoverable paper and food. Until mandatory recycling requirements are established for these sectors, conjunction with public education, there is little incentive for increasing diversion by the customers or haulers. addition, each Member Agency will be required to adopt such an ordinance in the next few years to comply with the climate change bill, AB 32.

### 10. Encourage Consumption and Disposal Changes

Promoting reduced consumption by making better choices when shopping is a necessary element to ultimately eliminate waste generation. Efforts should be made to increase customer awareness of online and local resources that encourage material exchange, repair and reuse. Public education must be a significant and on-going element to promote the consumption and disposal changes.

#### PHASE II

### 11. Promote Countywide Sale and/or Disposal Bans

Undertaking product sale and/or disposal bans are most effective when all Member Agencies simultaneously adopt them rather than each jurisdiction implementing different bans. The Town of Fairfax has already implemented a plastic bag ban and the state is also considering charging fees. Such bans will be most effective on a countywide level and the JPA can assist Member Agencies with the public education and creating a homogeneous approach for expanding or implementing new bans.

### 12. Implement Wet/Dry Collection Routes

A way to potentially increase recovery of material from commercial businesses is to re-route trucks to collect similar types of material (selective routing). For example, one truck should service locations that generate mostly paper goods (dry goods) and other service businesses that generate mostly food waste (wet goods). By designing such routes, contamination of loads is minimized and more materials can potentially be diverted.

# 13. Offer Residential Unlimited Services of Recycling and Green Waste Containers

These programs are dependent on services offered by the haulers. While some haulers provide unlimited recycling and green waste service, there is an opportunity to improve collection because not all haulers provide a sufficient number of containers to all residents or charge a fee for extra containers. Rate structures for this service should also be reviewed as part of the franchise agreement revision to determine if there are incentives for

customers to divert material and haulers to meet diversion standards.

#### 14. Add Materials Collected to Recycling Stream

All recyclables should be collected by haulers if there is a market for them. While the economy is slow, this may not be possible, but increasing collected materials, even if not generating profit, should be considered as a way to reduce disposal.

# 15. Add Food Waste Diversion to Collection Services (Residential and Commercial)

After green waste, food waste collection and composting is the big next step to reducing waste disposal. As with green waste, the availability of processing facilities is the limiting factor, but digestion and composting facilities are beginning to be established in Marin County (e.g., Redwood Landfill, Marin Sanitary Service energy projects, Pacific Biogas Energy).

#### 16. Implement Food Waste Digestion

Marin Sanitary Service is undertaking food waste digestion with the Central Marin Sanitation Agency (CMSA). The CMSA only services a portion of Marin County and other sanitary districts serving the county should also explore combining food waste with current digestion operations.

#### 17. Promote Backyard Composting

Getting residents engaged will help promote sustainability and waste awareness. In addition, developing a community garden where residents can bring food waste should be explored. The JPA should also assist with this recommendation.

# 18. Require Deconstruction/ Salvage/Resale of Construction and Demolition Materials

materials Salvaging prior to deconstruction will allow materials to be reused and diverted from the landfill. This practice has already begun in parts of the County, but support from Member Agencies in the form of ordinances and promotion will help keep useful materials from being unnecessarily disposed.

Table ES-2 Funding Options					
	Has Authority to Implement				
	JPA	Member Agencies			
Customer rates		✓			
AB 939 fees	<b>√</b>	✓			
Vehicle impact fees		✓			
Franchise fees		· 🗸			
General fund		✓			
Facility host fees		✓			
Developer fee		✓			
Ballot initiative fee/tax		✓.			
EPR policy/fee		<b>/</b>			

#### **Funding Options**

To fund the recommendations, the JPA and Member Agencies have a variety of options, but the Member Agencies have authority over most methods (see Table ES-2). Other than the AB 939 fees that are charged by the JPA, the authority to implement or adjust funding mechanisms are held by each Member Agency. In essence, these fees will ultimately be paid by the customer through service rates with the exception of Extended Producer Responsibility

(EPR) which should be paid by consumers of the product. These funding mechanisms include the following:

- Vehicle impact fees;
- Franchise fees;
- General fund;
- Facility host fee;
- Developer fee;
- Ballot initiative fee/tax; and
- EPR policy/fee.

With each of: these funding mechanisms, the Member Agencies have the opportunity to use the money to support programs and policies to support the Zero Waste Goal. As the Member Agencies evaluate the recommendations, these funding options will need to be further explored to meet their needs.

Table ES-3 identifies the estimated costs and potential funding source for implementing the recommendations. *It* should also be noted, that many

programs, such as revising an ordinance and franchise agreement, can be more cost effectively done on a countywide basis as a "model" to guide each Member Agency's unique ordinance and franchisee agreement rather than each Member Agency developing its own ordinance or franchise agreement language. Therefore, in Table ES-3, the estimated costs can be significantly reduced if programs are implemented on a countywide basis.

Analysis of the recommendations on a cost per ton basis shows that the following recommendations cost the least to implement for diversion or waste reduction achieved: 11, 10, 17, 18 and 8. Details are provided in Appendix B, Table 2.

Table ES-3  Estimated Costs					
Responsible Party		Recommendation	Estimated One-Time Cost	Estimated Ongoing Cost	Potential Funding Source
Phase I					
JPA	1 .	Increase Communication/ Assistance of the JPA with other County Departments (e.g., used oil programs, sharps)	N/A	\$40,000+ Materials and staffing	AB 939 Fee
	2	Increase JPA's Staff and Role in Assisting Administration of Member Agency and Countywide Programs. Could support #6-10 below.	\$200,000 (Fund Phase II)	\$120,000+ Materials and staffing	AB 939 Fee
	3	Increase Board of Directors Meeting Frequency	N/A	N/A	AB 939 Fee

		Table ES-3 Estimated Co	sts		
Responsible Party		Recommendation	Estimated One-Time Cost	Estimated Ongoing Cost	Potential Funding Source
	4	Help Facilities with Siting and Permitting: a) Solid Waste and b) Non-Solid Waste  JPA materials and staffing	N/A	\$120,000 Materials and staffing	AB 939 Fee
	5	Support EPR and Waste Reduction Policies at State and National Level Public education	N/A	\$120,000 Materials and staffing	AB 939 Fee
		Phase I JPA Subtotal	\$200,000	\$400,000	•
Member Agencies (MA)	6	Revise Solid Waste Ordinances Could be done as part of #2 above.	\$5,000- \$10,000 each MA	N/A	Franchise Fee, General Fund
	7	Revise Franchise Agreement Language. Could be done as part of #2 above.	\$25,000- \$75,000 each MA	N/A	Franchise Fee, General Fund
	8	Adopt, Enforce, and Homogenize the Construction and Demolition Ordinance. Could be done as part of #2 above.	\$5,000- \$10,000 each MA	\$5,000 each MA or \$60,000 for region	Franchise Fee, General Fund, AB 939 Fee
	9	Adopt and Enforce Multi- Family Dwelling and Business Recycling Ordinance. Could be done as part of #2 above.	\$5,000- \$10,000 each MA	\$5,000 each MA or \$60,000 for region	Franchise Fee, General Fund, AB 939 Fee
	10	Encourage Consumption and Disposal Changes.  Public education. Could be done as part of #2 above.	\$5,000- \$10,000 each MA	\$5,000 each MA or \$60,000 for region	Franchise Fee, General Fund, AB 939 Fee
	Phase	e I Member Agencies Subtotal	\$45,000- \$115,000 each MA	\$15,000 each MA-\$180,000 for region	
Phase II					

		Table ES-3 Estimated Co	ds = 2		
Responsible Party		Recommendation	Estimated One-Time Cost	Estimated Ongoing Cost	Potential Funding Source
JPA	11	Promote Countywide Sale and/or Disposal Bans	\$50,000+ for public education	\$30,000+	AB 939 Fee
		Phase II JPA Subtotal	\$50,000+	\$30,000+	
Haulers (via Member Agencies)	12	Implement Wet/Dry Collection Routes	Franchise Agreement Revision	2%-10% rate increase	Customer Rates
	13	Offer Residential Unlimited Services of Recycling and Green Waste Containers	Franchise Agreement Revision	1%-3% rate increase	Customer Rates
	14	Add Materials Collected to the Recycling Stream	Franchise Agreement Revision	1%-3% rate increase	Customer Rates
	15	Add Food Waste Diversion to Collection Services (Residential and Commercial)	Franchise Agreement Revision	1%-5% rate increase	Customer Rates
	16	Implement Food Waste Digestion	Franchise Agreement Revision	2%-10% rate increase	Customer Rates
	17	Promote Backyard Composting	\$5,000- \$10,000 each MA	\$5,000 each MA or \$60,000 for region	Customer Rates
		Phase II Hauler Subtotal	\$5,000- \$10,000 each MA	\$5,000 each MA or \$60,000 for region	
Member Agencies	18	Require Deconstruction/ Salvage/ Resale of Construction and Demolition Materials	\$5,000- \$10,000 each MA for public education	\$5,000 each MA or \$60,000 for region	C&D deposi system or fee
	Phase	II Member Agencies Subtotal	\$5,000- \$10,000 each MA	\$5,000 each MA or \$60,000 for region	
		Total	\$910,000- \$1,870,000 for the region	\$730,000+ for the region and 7%-31% rate increase	

### **Projected Zero Waste Results**

Implementing the recommendations could achieve a reduction of over 180,000 tons of disposal and waste generation. This would equate to approximately 94 percent diversion.

Table ES-4 identifies the estimated diversion each for each recommendation. Programs where diversion is dependent on or support recommendations are identified within the table.

		Table ES-4 Diversion Estimates by Recommendation	
Responsible Party		Recommendation	Estimated Diversion Tons
Phase I			
JPA	1	Increase JPA Program Assistance with other County Departments (e.g., used oil programs, sharps and pharmaceuticals)	Supports #4-18
10 <b>1</b>	2	Increase JPA's Staff and Role in Assisting Administration of Member Agency and Countywide Programs	Supports #4- 18
	3	Increase Board of Directors Meeting Frequency	Supports #4- 18
	4	Help Facilities with Siting and Permitting:  a) Solid Waste and b) Non-Solid Waste	Supports #18
	5	Support Extended Producer Responsibility (EPR) and Waste Reduction Policies at State and National Level	Supports #10 & 11
Member Agencies	6	Revise Solid Waste Ordinances	Supports #7 ,9, & 18
	7	Revise Franchise Agreement Language	Supports #8, 9, 12, 13, 14, 15 &16
	8	Adopt, Enforce, and Homogenize the Construction and Demolition Ordinance	22,900 and supports #18
A Common	9	Adopt and Enforce Multi-Family Dwelling and Business Recycling Ordinance	29,700
	10	Encourage Consumption and Disposal Changes	2,300
Phase II			
JPA	11	Promote Countywide Sale and/or Disposal Bans	1,100
Haulers (via Member Agencies)	12	Implement Wet/Dry Collection Routes (Commercial and Multi-family)	102,000
	13	Offer Residential Unlimited Services of Recycling and Green Waste Containers	7,300
200 B	14	Add Materials Collected to the Recycling Stream	2,300
	15	Add Food Waste Diversion to Collection Services (Residential and Commercial)	4,500 and supports #12 &16
	16	Implement Food Waste Digestion	N/A

		Table ES-4 Diversion Estimates by Recommendatio	'n	
Responsible Party		Recommendation		Estimated Diversion Tons
	17	Promote Backyard Composting		4,500 as part of food waste diversion (#15)
Member Agencies	18	Require Deconstruction/ Salvage/ Resale of Construction and Demolition Materials		11,500 and supports #8
		. 7	Total	183,600

#### **Report Organization**

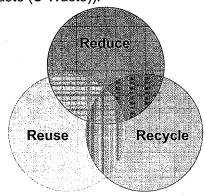
- Section I: Provides an introduction to the study.
- Section II: Identifies the goals of the study.
- Section III: Identifies the methodology used in evaluating the JPA and developing recommendations.
- Section IV: Identifies data sources used to develop the recommendations.
- Section V: Identifies challenges to achieving Zero Waste.
- Section VI: Provides analysis of existing programs and opportunities.
- Section VII: Identifies recommendations for the JPA, Member Agencies and haulers (via Member Agencies) to undertake.
- Section VIII: Identifies funding methods available to execute the recommendations.

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### I. Introduction

The Marin Hazardous and Solid Waste Management Joint Powers Authority (JPA) is comprised of 12 Member Agencies: Belvedere, Corte Madera, Fairfax, Larkspur, Mill Valley, Novato, Ross, San Anselmo, San Rafael, Sausalito, Tiburon and unincorporated Marin County. Through the JPA, the communities have been implementing programs to comply with the Integrated Waste Management Act's (AB 939) requirements of diverting 50 percent of generated waste 1. The most recent diversion rate calculated by the California Integrated Waste Management Board (CIWMB) was for 2006 and the JPA had a diversion rate of 72 percent. It is the JPA's objective to increase the diversion rate to 80 percent by 2012 and Zero Waste by 2025.

Due to the increased diversion goals and a need to address the waste stream and make Marin County (County) more environmentally sustainable, this report analyzes the JPA's current policies and programs regarding non-hazardous and hazardous waste (includes Universal Waste (U-Waste)).



<sup>&</sup>lt;sup>1</sup> Household hazardous waste is not considered in determining diversion rates, because it is not legal to dispose of the materials in landfills. However, reduction of HHW is consistent with a Zero Waste Goal.

The Zero Waste goal can be described as a community's environmental impact minimized by adopting policies and programs that promote waste prevention, product redesign to reduce toxics and consumption, and local material reuse and recycling.

In order for Zero Waste to be attained, it is necessary for the JPA, Member Agencies, and haulers to implement programs and policies that are consistent countywide.

# Structure of Recommendations

To achieve Zero Waste requires a combination of short-term and long-term programs and policies that address eliminating the creation of waste (upstream) and the disposal and diversion of waste (down-stream).

The tandem of up-stream and downstream will reduce the waste generated over the long-term when combined with sustained and consistent public education messages. Although upstream policies and programs will have impact on disposal over the long-term, actions must begin now to create the desired consumer behavior changes.

The down-stream waste management programs are focused on short and long-term programs and policies that divert material for higher and best use. Maximizing diversion can occur through existing and new programs to recover material for resale, compost and energy generation.

In consideration for the impacts of the short-term and long-term impacts of programs and policies, the recommendations presented in this Feasibility Study are organized into two phases: Phase I and Phase II. Phase I recommendation are intended to create a regional (countywide) foundation for recommended programs and policies to work. Phase II recommendations are

those that are to be implemented at a countywide and Member Agency level.

Regardless of the recommendation, public education is a fundamental component of enabling the recommendations to achieve consistent and desired diversion outcomes.

#### II. Goals

The JPA has established the goals of achieving 80 percent diversion and Zero Waste in the next five to 17 years. To determine how Marin County can attain these goals, the JPA engaged the R3 Consulting Group (R3) Team (includes California Waste Associates: Environmental Planning Consultants; Heidi Sanborn, Product and Stewardship Consultant) to evaluate current solid waste and household hazardous waste programs, suggest improvements or new programs, and solicit feedback from stakeholders. This report provides a summary of our findings and presents an analysis of potential diversion rates if suggested program changes were implemented. The analysis also includes a review of current public education material and waste-related ordinances.

### III. Methodology

As part of the analysis, the JPA's current diversion and disposal practices household hazardous waste management was evaluated, with a focus on the sectors that generated the material (e.g., single family and multifamily residential. commercial. construction and demolition, self-haul "other/unknown"). These categories are used as a foundation to consider improvements to current programs and policies. Data was provided by the franchised haulers, facility operators, CIWMB, JPA staff and County staff.

In addition, R3 created a model that evaluated what changes to the current waste management program could be undertaken to increase the JPA's diversion rate. The model can be anticipated adjusted to reflect diversion. participation and diversion rate was calculated with the increase the assumption that diversion resulted in an identical reduction in disposal.

As a way to also increase the JPA's environmental sustainability, the hauler franchise agreements and policies developed by the JPA and Member Agencies were reviewed. Stakeholder meetings/workshops were conducted with the JPA staff, JPA Board of Directors, JPA Executive Committee, Local Task Force. County of Marin of Supervisors, franchised Board haulers, and general public.

#### IV. Data Sources

This study provides a "big picture" view of how diversion rates can be changed by improving existing programs or implementing new programs. Information presented in this Feasibility Study is from data provided by JPA staff, Member Agency staff, facility operators, franchise agreements and franchised haulers. All franchise agreement, public education and rates were requested, but not all data was able to be obtained. Below are data sources used to conduct analysis.

- Relevant franchise agreement information from 26 franchise service areas.
- Available tonnage information from the JPA. However, data did not distinguish the tonnage of material collected and recycled from Single

Family Dwellings (SFD), Multi-Family **Dwellings** (MFD), Commercial, and Construction and Demolition (C&D); this information is valuable for tracking programs and targeting education efforts. Therefore, analysis in this Feasibility Study is provided only for SFD and commercial sectors.

- Waste characterization data used was based off of a study of the Marin Sanitary Service (MSS) Transfer Station conducted in 2007 for residential and light commercial loads. The study did not include the Novato waste stream.
- Disposal tonnage as reported by the Disposal Reporting System (DRS).
- Household data from the U.S. Census.
- Reports provided by franchised haulers.
- Residential food waste diversion program information was obtained from the Alameda County Waste Management Authority.

In addition, attempts were made to obtain additional program diversion information from the CIWMB, but no information was provided.

This study does not reflect the political viability of making the suggested program changes.

### V. Challenges to Achieving Zero Waste

The Member Agencies and Special Districts (e.g., Sanitary Districts) in the JPA have a wide variety of programs that are intended to promote waste reduction, the recycling of products, and result in reducing the amount of material disposed. As a result, the JPA has consistently been recognized for

exceeding the state's 50 percent diversion requirement and business waste reduction efforts.

Although the JPA has a strong record of high diversion rates, in 2007 the reported disposal was 229,271 tons (70 percent reported diversion). This compares to approximately 250,000 tons of disposal as reported in 1995 (32 percent reported diversion). Accordingly, over the past 14 years, while reported diversion has increased dramatically. actual disposal remained relatively flat. This is due to consumption rates not changing. Additional policies and programs will need to be developed and implemented to meet the JPA's Zero Waste Goals.

In order to meet the Zero Waste Goals, several major challenges must be addressed that affect program development and implementation. These are as follows:

- The JPA has a minimal role in solid waste program implementation at the Member Agency level and does not have any direct authority or resources to implement new programs and effectively increase diversion and prevent waste generation.
- Each Member Agency administers it own franchise agreement, and the agreements are not diversion-based or waste reduction-based agreements.
- Member Agencies operating individually may not have adequate resources to develop, implement and enforce the necessary program to support the Zero Waste Goals.
- There is insufficient capacity for facilities located within the County to process the amount of organic waste materials to meet the Zero Waste Goals.

There is one C&D processing facility located within the County (Marin Resource Recovery Center-MRRC) that may have adequate capacity to process all C&D materials. However, this facility is privately owned and operated and not all Member Agencies and Special Districts direct their C&D materials to the MRRC. For areas not serviced by MSS. directing C&D materials this facility (or any specific facility) should be accompanied with some form of public oversight (rate review) of the tipping fees charged to process C&D materials.

The recommendations based on the analysis in Section VI are specifically designed to mitigate the impediments listed above.

### VI. Analysis

The JPA, its Member Agencies, and Special Districts have a wide array of programs that help reduce the amount of materials disposed and properly manage household hazardous waste materials. This section discusses accomplishments of Marin County. provides programs and current recommendations that will help the JPA become a Zero Waste community.

# Marin County Leadership in Waste Reduction and Recycling

The JPA has consistently been recognized for exceeding the state's 50 percent diversion requirement and business waste reduction efforts.

### CIWMB Award-Winning Waste Reduction Practices

In 2001, JPA won a CIWMB Trash-Cutters Award for its collaborative effort between Member Agencies and businesses to promote and support diversion programs and activities. In addition, the County of Marin created a market incentive for recycled products by instituting a 15 percent price preference for purchases.

the JPA's activities, with Along been regularly businesses have recognized over the years for their contribution to reducing the waste being environmentally stream and responsible. The CIWMB has awarded the Waste Reduction Awards Program (WRAP) Award to 213 businesses in Marin County since 1993 and seven businesses have been awarded the WRAP Winner of the Year since this honor was initiated in 1996.

#### Marin County Sustainability Team

The Community Development Agency (Agency) has a Sustainability Team that has the following countywide programs: C&D ordinance, green building, climate protection, waste tire collection (in partnership with the JPA), energy conservation, and promoting green living. In addition to these programs, the Agency has a reuse grant to encourage deconstruction contractors to provide services in Marin and to site a reuse facility for construction and demolition materials. The grants may not be offered depending on economic conditions.

Its website is a resource for people to learn how to take action to reduce their ecological footprint. On the main website page of the Sustainability Team, there is no link to the JPA or information related to waste reduction beyond commercial businesses. There is an opportunity to expand the website's content to increase its relevance to individual consumers and JPA efforts and resources such as the California Product Stewardship Council.

Within the website is an interactive tool that assesses the progress in making Marin County more sustainable in relation to the following categories: economy; agricultural systems; health, arts and culture, education and preparation, infrastructure; planning, energy and buildings; and natural and biological systems.

One key element buried within the infrastructure category is solid waste reduction and recycling. The application as currently designed does not highlight waste reduction as a crucial issue and also does not reflect current disposal data or JPA Zero Waste goals. Measuring waste reduction is essential to reaching the Zero Waste goals and identifying the disposal in per capita will allow terms residents businesses to assess the role each individual has in the system.

#### Green Business Program

Administered by the Marin County Community Development Department, the Green Business program is a part of the Bay Area Green Business Program which is designed to encourage voluntary participation of businesses to reduce their environmental impacts and be recognized as an official "green business". The program recognizes businesses that are in compliance with environmental laws and conserve energy, water, and other resources, and implement sound environmental practices that prevent pollution and waste generation.

To become a "green business" the application company submits an identifying the conservation and sustainable actions they have implemented. The County then verifies the information. Assistance to achieve threshold standards is also available through the Agency. As part of the program, businesses receive the following:

- Recognition certificate;
- Green Business window decal;
- Promotional items for customers;
- Camera ready art work; and
- Ongoing promotions through local advertising and public events.

The types of businesses in Marin County that are certified as being "green" range from auto-related services to professional services such as dentists and photography. The program is available for any business or public agency. As noted on their website, the County has over 300 certified green businesses which include local solid waste and recycling haulers, Marin Sanitary Service, and **Tamalpais** Community Service District. Marin Sanitary Service reports that they have assisted over 100 businesses qualify for the program through their management services.

#### Green Building Program

The County, through the Agency, is promoting the "green" design of buildings to reduce energy and water use. It is through this program's website that the Construction and Demolition ordinance for the unincorporated County areas and Single Dwelling Energy Efficiency ordinance are accessible.

Another countywide effort that involves all cities and the County is the Green Building, Energy Retrofit and Solar Transformation (Green BERST). This multi-agency collaboration is under way to work on green building ordinances, and some aspects of a construction and demolition ordinance.

Resources currently available also include the Residential Green Building

Guidelines and Rating System that identifies the criteria to become certified as green building. The Agency website also details the benefits of undergoing green building, which beside the environmental benefits, also allows the contractor/homeowner the opportunity for County assistance throughout the process. and receive fast-track permitting and a waiver for the energy review fee. Residents can also contact the Agency for rebates, tax credits, and financing opportunities for replacement of wood-burning stoves and installation of solar panels.

#### JPA Role

The purpose of the Marin Hazardous and Solid Waste JPA is to provide household hazardous waste collection, recycling and disposal information. ensure Marin's compliance with State recyclina mandates. and provide education for the citizens businesses of Marin. The JPA has an annual budget of approximately \$2 million (includes HHW facility staffing) and three full-time equivalent staff members. Any additional programs requires a formal action by Member Agency governing boards determine if they want to participate and fund programs to developed by the JPA.

The JPA is administrated by the Marin County Department of Public Works/ Waste Management. The role of the JPA is determined by the policies that are adopted by the JPA Board and the JPA Executive Committee. Based on the JPA agreement, and the policies and direction from the Board and Executive Committee, the JPA has the following responsibilities:

 Collecting disposal and diversion tonnage information from the solid waste service providers;

- Monitoring and reporting to the CIWMB the County's disposal tonnage, diversion rate and providing an update on the 39 adopted Source Reduction and Recycling and Household Hazardous Waste programs;
- Collecting tipping fees (AB 939 fees) from material disposed at Redwood Landfill and Recycling Center (Redwood Landfill) or processed through the Marin Sanitary Service Transfer Station;
- Conducting public outreach for countywide programs:
  - Websites: www.MarinRecycles.org and www.MarinMax.org
  - Stop junk mail kits
  - Tire Amnesty events (administered by the Department of Public Works)
  - Marin County Public Works Builders Guide
  - Christmas tree recycling
  - HHW education
  - Phone book recycling guide
  - West Marin consulting and outreach (administered by the Department of Public Works)
- Tracking legislation and recommending position statements to the Board of Directors;
- Applying for grants (availability will depend on economic conditions);
- Administering grants (e.g., CIWMB HHW grant for increasing store takeback of materials);
- Developing model ordinances for Member Agencies to adopt and enforce (e.g., construction and demolition ordinance); and
- Collecting batteries from County offices.

In addition to these activities, the JPA also has partnerships with the Bay Area Recycling Outreach Coalition (BayROC) and has passed a resolution supporting the California Product Stewardship Council (CPSC).

The JPA mostly interacts with the solid waste service providers in gathering tonnage information from the haulers. However, the JPA does not receive data from all haulers on HHW materials that may also be picked through curbside operations like those provided by Mill Valley Refuse. Other solid waste related activities that the JPA does not manage for the Member Agencies are the following:

- Used oil block grant collection (program is managed by the Marin County Stormwater Pollution Prevention program (MCSTOPP)), and the Novato Sanitary District;
- Marin County Solid and Hazardous Waste Permanent Facility (program is managed by the City of San Rafael and is funded by JPA fees);
- Household Hazardous Waste collection at the Novato Household Hazardous Waste Permanent Facility for the Novato Sanitary District (NSD) (program is operated by the NSD and funded by AB 939 fees);
- Pharmaceutical and sharps collection (program is managed by the County Environmental Health Department and is partially funded by the NSD and others); and
- Battery collection (program is managed by the San Rafael Fire Departments and in Novato by the NSD).

Because a variety of entities manage these programs, the JPA may or may not be receiving information on collection or be aware of opportunities to help improve or expand programs. For the permanent facility, sharps, and battery collection, the JPA does fund the program and has eventual oversight of the programs.

#### Tonnage Reports to the JPA

The JPA does not receive reports from all haulers that identify the service sectors that generated the diversion and disposal tonnages (e.g., residential, multi-family, commercial). While the JPA receive aggregate tonnage does numbers, having the tonnage identified by service sector would better enable the JPA to focus programs and public education to improve diversion. In addition, the haulers provide reports to the JPA in non-standardized format, which may result in the JPA not receiving as much information as necessary to make informed program decisions.

In addition to the hauler reports, Redwood Landfill also provides reports to the JPA which identify the amount of inerts, construction and demolition debris, green waste and ADC material is delivered to the landfill.

### Marin JPA Role Compared to Other JPAs

The scope of responsibilities the Marin JPA has is limited in comparison to other JPAs in California. Two JPAs that were reviewed were the Alameda County Waste Management Authority (ACWMA), and the South Bay Waste Management Authority (SBWMA). This section highlights the main elements of the JPAs' operation. Additional information on JPAs in the state is presented in Appendix A.

#### Population Served

ACWMA: 1.5 million

SBWMA: 449,628

JPA: 259,000

#### Budget

ACWMA: \$18.5 million

SBWMA: \$39.9 million

• JPA: \$2 million

#### Member Agencies

- ACWMA: 14 cities, County of Alameda and two sanitary districts
- SBWMA: 11 cities, County of Mateo and a sanitary district
- RWMA: four cities and Yuba and Sutter Counties
- JPA: 11 cities and Marin County

#### Dedicated Administrative Staff

ACWMA: 26

SBWMA: 6

JPA: 3 full-time equivalents

#### **Funding Sources**

- ACWMA: facility fee, Measure D landfill surcharge, and Import Mitigation Fee.
- SBWMA: Shoreway Recycling and Disposal Facility tip fee, Shoreway commodity sales, and investment income.
- JPA: disposal fee (in or out of County)

#### Responsibilities

- ACWMA: technical assistance to public, businesses and local government; initiate programs; public policy advocate; and reports to state agencies.
  - Programs include: business outreach, long-range planning and property management; media and outreach; Member Agency services; green building/bay-friendly landscaping and gardening; school programs;

organics processing development; and administrative services.

- SBWMA: own and manage the Shoreway Recycling and Disposal Facility; support SBWMA programs; community outreach; education and focused communication; reports to state agencies.
- JPA: supports operation of the Marin County HHW facility and staffing; develops public outreach and planning documents; and reports to state agencies.

#### Member Agency Role

There are 12 Member Agencies in the JPA and each has a representative on the JPA's Board. The Executive Committee meets quarterly and the Board meets twice a year. At the Board meetings, the JPA staff informs the representatives of the current activities. Specific Member Agency roles include the following:

- Have a representative on the JPA Board of Directors and approves contracts;
- Administer their Franchise Agreements with solid waste collection companies and approve rate adjustments. Note that the City of Novato's franchise agreement is administered through the NSD;
- Adopt and enforce ordinances (e.g., construction and demolition);
- Approve JPA letters of support for legislation; and
- Implement programs, unless the Member Agency seeks the JPA's assistance.

# JPA Solid Waste and Recyclables Collection

The JPA Member Agencies and Special Districts in the County independently contract their collection and disposal services for residential, multi-family and commercial services. Construction and demolition materials can be collected either by the franchised hauler or the contractor conducting the C&D activity. Unincorporated areas of the County are serviced by five franchised haulers and a municipal hauler. Not all areas of the County, such as West Marin, have mandatory collection which enables people to choose to take their material directly to the Marin Sanitary Transfer Station or Redwood Landfill. The six haulers operating in Marin County and the material they divert are noted in Tables 1 and 2 below.

#### **Hauler Services**

This section provides an overview of the residential and commercial collection services provided by each hauler including public education and diversion rate for calendar year 2006 (most recent data available from JPA). It also notes any additional services that the hauler might consider. It is important to note that diversion rates stated in this section are only for the materials collected by the haulers. These diversion rates account for 30 percent of the JPA's AB 939 reported diversion, which also includes material from store back-haul recvclina activities and self-haul operations that never enter possession of the hauler. JPA haulers diverted 129,400 tons in 2007, but this is a fraction of the total waste diverted. In the 2006, waste generation study approved by the state, 432,573 tons were documented as diverted in the County. This means the haulers are diverting approximately 30 percent of all diverted material countywide.

Overall, each hauler provides "bundled" rates in which the solid waste container size determines the rate charged and recycling and green waste containers are provided for no extra fee. Having the rate dependent on solid waste capacity is intended to be a financial incentive for customers to minimize disposal and maximize recycling of postconsumer materials and green waste. provide Most haulers co-minaled recycling services where residents do not have to sort materials. The exception to this is Marin Sanitary Service which has split-carts intended to keep paper and other materials from being contaminated.

Each hauler is responsible for promoting their solid waste and recycling services. The franchise agreement requirements vary in specificity between jurisdictions, but all have a public education component. Public education pieces described in this section were provided as part of this Feasibility Study.

As highlighted in Tables 3-8, all haulers were achieving at least 30 percent (Mill Valley Refuse Service in the unincorporated County) and a maximum of nearly 65 percent (Marin Sanitary Service in Ross). Overall, the haulers diverted approximately 42 percent of the waste collected through their services. The JPA's data, as reported by the haulers, does not provide for detailed analysis of residential and commercial sector diversion.

The difference in level of public education and diversion performance is related to often vague or non-existent requirements in the franchise agreements. In some cases, franchise agreements are automatically renewing and have not been amended except for rate adjustments. Discussion of franchise agreement language is later in this document.

Table 1 Franchised Haulers				
Franchised Hauler		Service Areas		
Bay Cities Refuse	Sausal	ito, <i>Marin City CSD</i> , and	l County	
	County	Larkspur	San Anselmo	
Marin Sanitary Service	Fairfax	Ross Valley SD	San Rafael	
	Las Gallinas Valley Sanitary District			
	Almonte	Corte Madera	Strawberry	
Mill Valley Refuse	Alto SD	County	Tiburon	
	Belvedere	Homestead	Mill Valley	
Novato Disposal**	Novato Sa	anitary District (Novato a	and County)	
Redwood Empire Disposal **	County (West Marin), Bolinas Community Public Utility District, and Stinson Beach County Water District			
Tamalpais Community Services District	Tamalpais Community Services District			

<sup>\*</sup>Italics note parts of Unincorporated Marin County

<sup>\*\*</sup>Has same parent company

	Recy		Table 2 als Collected	by Haulers		
Franchised Hauler	Paper and Cardboard	Milk cartons*	e <b>cyclable Mat</b> Glass Böttles/ Jars	erials collector Plastic Containers (1-7)	edi * Metal Cans	Not Collected
Bay Cities Refuse	· /		<b>√</b>	<b>&gt;</b>	✓	Paper towels, waxed or
Marin Sanitary Service	<b>*</b>		<b>✓</b>	<b>√</b>	✓	coated paper**,
Mill Valley Refuse	<b>√</b>	✓	✓	✓	<b>√</b>	plastic bags**, photographs,
Redwood Empire Disposal	✓	√.	<b>√</b>	<b>√</b>	✓	Styrofoam, ceramics or
Novato Disposal	✓	· ·	✓	<b>✓</b>	✓	mirrors
Tamalpais CSD			✓	<b>V</b>	<b>✓</b>	

<sup>\*</sup>Includes juice, rice, and soy boxes

<sup>\*\*</sup>MSS does collect these materials

#### **Bay Cities Refuse**

#### Services

Bay Cities Refuse provides manual backyard collection to residents and recyclables are placed at the curb. The hauler is willing to add food waste collection if there is a facility to take it to.

#### Public Education

Bay Cities Refuse provided a recycling notice provided to new customers and their recycling newsletter. Both publications identified the types of material accepted and not accepted in the recycling container.

#### Diversion

Table 3 Bay Cities Refuse (2	20(0(6))
Service Area	Total
Sausalito	47.88%
County	30.01%
Hauler Total Diversion	42.01%

#### Marin Sanitary Service

#### Services

Marin Sanitary Service offers weekly automated and semi-automated cart collection of solid waste, recyclable and green waste. The size of solid waste containers offered range from 20 to 96 gallons, recycling is offered in 32 gallon carts, and green waste is offered in 64 gallon carts. Where space is a problem, 5 gallon buckets are also provided.

Recycling is placed in dual sort carts serviced by split-body trucks. The dual sort containers are intended to prevent paper contamination by having one side for paper and the other for plastic, glass and aluminum. Recycling services are unlimited and green waste is generally limited to 128 gallons with the exception of San Anselmo that has unlimited green waste service. MSS also has a couple food waste digestion pilot programs underway that are described

later in this study. They are also exploring the option of taking food waste to either their composting facility in Zamora or the residential food waste facility at Redwood Landfill for composting once the compost operations receive proper permits.

Bulky item collection can be provided to customers for additional cost in Ross Valley South. However, in Ross Valley North, single-family and multi-family dwelling customers can receive free semi-annual collection of up to two cubic yards of solid waste, recyclables, or their green waste on regularly This collection dav. scheduled the separate from collection is Christmas tree collection that occurs for two weeks in January.

In addition to these services, MSS has a Construction and Demolition facility that accepts dirt, rock, concrete, wood, cardboard and metal. Inerts are ground and diverted. It is estimated that the facility operates at 40 percent of its capacity during a strong economy. Material is accepted from contractors and individuals. If the Member Agencies and Special Districts direct all materials to MSS, it should only be done if some type of tipping fee oversight by the participating agencies.

#### Public Education

Marin Sanitary Service provided multiple newsletters which contain information on clean-up days, services, holiday recycling guides, schedules, industry news. The company also Conditionally and provided HHW Exempt Small Quantity Generator (CESQG) pamphlets, zero waste school lunch materials, a full recycling guide, a "Did You Know?" sheet, a cotton bag as an example of plastic bag alternatives, and informational sheets on plastic bags and bottled water.

MSS also produces a "Waste Not" pamphlet that provides customers with information on actions that can reduce waste. Multiple jurisdictions required public education in their respective franchise agreements.

Beyond published materials, MSS provides school outreach to promote waste reduction. In 2009, MSS was named the Partner of the Year with the California Product Stewardship Council. MSS has linked its website to CPSC and has handed out CPSC's consumer brochure at events.

#### Additional Notes

MSS is striving to achieve Zero Waste through multiple methods, which includes their partnership that was established in 2007 with iReuse. The purpose of the partnership is to reduce business waste through reuse and donation. The partnership will enable the facilitation of donation and sales of reusable materials and provide clients with tax-deductible receipts.

Beyond the collection services the company provides, MSS also promotes Zero Waste and strives to become a Zero Waste business. In 2008, MSS underwent a waste characterization study of its residential and light commercial loads to determine what materials were not being recycled by customers at the curb. They are using this data to re-target education efforts. The latest step undertaken by Marin Sanitary Service is the development of a Zero Waste plan for their facility and operations, and food digestion pilot programs.

#### Diversion

Table 4 Marin Sanitary Service (2	006)
Service Area	Total
San Rafael	48.70%
Larkspur	49.03%
San Anselmo	62.52%
Ross	64.94%
Fairfax	57.77%
County	45.96%
Hauler Total Diversion	50.93%

#### Mill Valley Refuse

#### Services

Mill Valley Refuse provides weekly single-stream, and semi-automated recycling bi-weekly service and collection of green waste cans. All of the areas it services have mandatory collection. In addition, residents have the option of scheduling curbside collection of used motor oil and filters. Waste material is under contract to be delivered to Redwood Landfill. Recyclable materials are transported to the City of Santa Rosa and are processed there. Any household hazardous waste collected is taken to the Marin County Household Hazardous Waste Permanent Facility.

Free services offered to customers include quarterly free pick-up of up to 3 cubic yards of garden cuttings, trimmings, or debris. They also provide free collection of "reasonable amounts" (from franchise agreement) from public areas owned by the County.

Depending on whether construction and demolition materials are required to be recycled by jurisdiction ordinance, the material is either disposed or taken to a recycling facility. The recycling facilities that are used are in the City of Santa Rosa or the Marin Sanitary Service's facility.

#### Public Education

Mill Valley Refuse provided a copy of their most recent Let's Talk Trash newsletter, which advertised Holiday tree and material recycling options. A Mixed Recycling Guide for new blue carts being delivered to residents was also provided. Of the jurisdictions Mill Valley Refuse services, Almonte required the most for public education.

#### Diversion

Table 5 Mill Valley Refuse	(2006)
Service Area	Total
Mill Valley	35.62%
Belvedere	34.99%
Corte Madera	37.31%
Tiburon	38.17%
Alto	33.79%
County	35.63%
Homestead	34.44%
Strawberry	41.65%
Almonte	33.81%
Subtotal County	36.68%
Hauler Total Diversion	36.67%

#### **Novato Disposal**

#### Services

Novato Disposal provides automated weekly collection of solid waste, recyclables and green waste. Solid waste and green waste are collected using split-body trucks. Solid waste containers offered range in size from 20 to 95 gallons. Commingled recyclables and green waste containers are offered in 68 and 95 gallon capacity and residential customers can receive extra carts at no additional cost.

Another free service residents receive is excess waste clean up during two predetermined weeks a year. The service is limited to a 14 bags, boxes, or cans of material per household; E-Waste is not collected as part of the event. Multi-family complexes receive

bins for accumulation of material. Household Hazardous Waste and E-Waste disposal is handled at the Novato Recycling Center, which also collects TVs and CRTs. Novato Sanitary and Novato Disposal also operate 2 E-Waste events a year, 4 days each, where any Novato residents an bring any electronics for recycling.

For schools and commercial accounts, customer service representatives perform site walk-throughs to assess the waste stream and help divert material from disposal.

#### Public Education

As part of the franchise agreement with Novato Sanitary District, Novato Disposal advertises cleanup events, the Christmas tree program, recycling and HHW programs, and also requires a Novato Solid Waste Management Work Plan and a bi-annual newsletter. In addition, to the efforts of Novato Disposal, the Novato Sanitary District produces a comprehensive recycling guide that identifies reuse and recycling locations by material type and hauler service information. Novato Disposal also distributes backyard composters to Novato residents at a reduced cost.

#### Diversion

Tabl Novato Disp	
Service Area	Total
Novato	40.15%

#### Redwood Empire Disposal

#### Services

Redwood Empire Disposal provides semi-automated cans for solid waste and automated carts for commingled recyclables (includes rigid plastics) and green waste. Solid waste and recyclables collection is weekly with green waste service occurring biweekly. Customers are allowed

unlimited recycling and up to 10 containers for green waste. Residential customers also receive two free pickups of bulky waste on pre-determined weekends. All collections are by appointment and can be up to three cubic yards in volume. Disposed items are taken to Redwood Landfill, recyclables are taken to Petaluma and green waste is taken to Redwood Landfill or Bolinas.

#### Public Education

Redwood Empire Disposal produces a newsletter advertising curbside cleanup of bulky items. Household Hazardous Waste disposal options, and reminding customers of acceptable recycling materials. In addition, a separate recycling guide brochure is distributed. Redwood Empire Disposal also provides businesses with a Recycling Packet to provide resources and tips businesses to start a recycling program. As part of the Packet, businesses are encouraged to sign a "Go Green" pledge that identifies at least three actions they will take. The signed pledge is mailed to Redwood Empire Disposal.

#### Diversion

Ta	ble 7
Redwood Empi	re Disposal (2006)
Service Area	Total
County	36.85%

#### Tamalpais Community Services District

#### Services

Tamalpais Community Service District (CSD) provides weekly cart collection of solid waste, recyclables and green waste. The CSD also provides residents with backyard composting workshops and worms for compost bins. The CSD also offers free curbside pick-up of E-Waste and participates in community events such as Debris Day, Green Day and shreddina Waste and pharmaceutical drop-offs. Residents

can also pick-up free compost and wood chips at the CSD yard and drop-off batteries and fluorescent tubes.

#### Public Education

Public education provided for the CSD consisted of a four-fold Service Guide for garbage, recycling and yard waste pickup that described the acceptable materials per cart, what materials are considered toxic, and other customer service information. They also distribute PG&E Climate Change materials, newsletters promoting services.

#### Diversion

County	46.91%
Service Area	Total
Distric	t (2006)
	munity Services
Tak	ile 8

#### **Waste Disposal**

In 2007, the JPA disposed 229,271 tons which was an increase of over 40,000 tons from the previous year<sup>2</sup>. The chart below shows the trend in disposal over 13 years. This chart illustrates that although the JPA has been able to document diversion levels that exceed 70 percent since 2000, the disposal tonnage has remained relatively constant. This means that people over the past 14 years have been generating more waste.

The County has the highest generation (disposal + diversion) and diversion rate in the state because residents and businesses consume a lot of products and sends the material for recycling or disposal. Because the generation is based on weight, construction materials

<sup>&</sup>lt;sup>2</sup> As economic conditions declined, so has disposal tonnage. In 2008, JPA disposal decreased to 211,000 tons. It is anticipated that disposal will increase as the economy rebounds (e.g., construction/remodeling activities, individual consumption).

could be dominating the waste stream (disposal, diversion or both sides of the waste stream). The high diversion rate is due to the recycling and reuse programs undertaken in the County and of the **JPA** provide ability to documentation to the state that proves an array of diversion activities and their associated tons. However, the high diversion rate does not change the need to focus on the disposal stream (in the short-term) to achieve Zero Waste.

The average disposal since 1995 was 197,450 tons and the five-year average since 2000 is slightly lower at 183,410. Of note, is that the disposal tonnage has been increasing since 2005, but the economic downturn may influence disposal patterns. Figure 1 illustrates the MSS waste characterization findings<sup>3</sup> of the type of material disposed and Figure 2 depicts the disposal trends. Paper mostly comes from multifamily units and small businesses.

For the JPA to reach the Zero Waste goals by 2013 and 2025, the focus must be on reducing the materials disposed. This is especially true with the changes to AB 939 reporting as a result of SB 1016.

### Figure 1 Materials Disposed

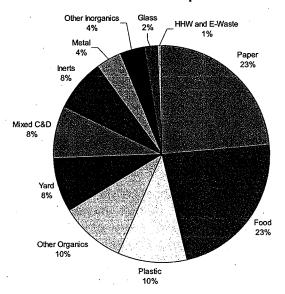
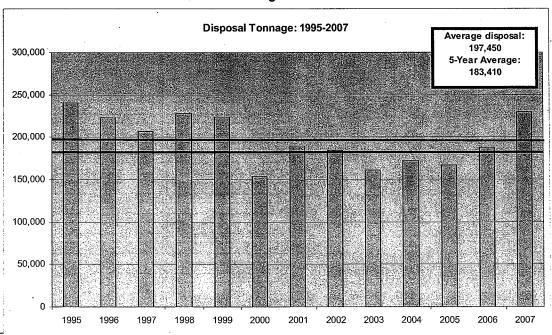


Figure 2



<sup>&</sup>lt;sup>3</sup> The study did not include the Novato waste stream.

#### SB 1016

SB 1016 measures compliance with AB 939 by the per capita disposal rate (50 percent of generation is the goal). For 2007, the JPA had a disposal target of 7.6 pounds per person per day and the actual disposal was below this threshold at 4.9 pounds. This is equivalent to 68 percent diversion. While the JPA has grown accustom to having diversion rates in the 70 percentile, the change in diversion measurement to disposal eliminates the addition of biomass diversion as "extra credit" on top of normal diversion activities. Therefore, the disposal target calculated is an average of 2003-2006 documented diversion and disposal. This does not mean that biomass does not count as diversion; its absence from disposal tonnage is by default measured as diversion just like every other activity (e.g., curbside recyclables). In addition, the 2007 diversion rate is lower than previous years because of the increase in disposal tonnage.

The CIWMB stated that rather than basing compliance on AB 939 on the target per capita disposal, diversion programs are going to become more of a focus. Consequently, effort must be placed on reducing the amount of disposed materials to continue to meet the state's diversion standards and also enable the JPA to achieve its Zero Waste goals. Only by developing or strenathening programs to divert disposed materials through source reduction, recycling, and composting programs will the JPA be able to achieve Zero Waste.

The JPA has embraced an aggressive goal for achieving Zero Waste based on:

- Realizing 80 percent diversion of waste from disposal by 2012; and
- Achieving Zero Waste by 2025.

In achieving these goals, there may still be residual waste after diversion processing.

#### Materials Disposed

2008 "Audit The August of Residential/Light Commercial Disposed Waste" report prepared for Marin Sanitary Service by CalRecovery, Inc. was reviewed and analyzed. The study quantitative described а characterization of waste disposed at the MSS Transfer Station in San Rafael. The residential and light commercial sampled and sorted delivered to the transfer station by MSS in its rear loader collection fleet.

The results of the waste characterization study are presented in Table 9. The percentage allocation of the material categories and types in the residential/light commercial waste sector were assumed to apply to the entire waste stream. This table identifies that there are many common material types that can have diversion programs enhanced or initiated to significantly reduce the disposal stream.

Table 9  JPA Disposal Composition			
Material	Composition	Quantity:	
Category	(%)	(Tons)	
Paper	23%	53,833	
Food	23%	52,382	
Plastic	10%	24,014	
Other Organic*	10%	21,943	
Yard/ Landscape	8%	18,286	
Metal	8%	17,883	
Other Inorganic**	8%	17,883	
Glass	4%	9,327	
E-Waste	4%	8,185	
HHW and			
Special Waste	2%	4,335	
Total	100.00%	229,271	

<sup>\*</sup>Wood, textiles, etc.

<sup>\*\*</sup>Rocks, dirt, etc.

Franchised and municipal haulers serving the Member Agencies disposed of 175,227 tons which is equivalent to 76 percent of the 2007 tonnage. This means that 24 percent of the waste is disposed through beina self-haul individuals. operations (e.g., construction/roofing companies) debris box companies (haulers not identified in this report).

Although the percentage allocations presented in the table are based on overall disposal, it is important to note that at least 6,500 tons of C&D material was also disposed (based on 2006 data). This is equivalent to nearly three percent of the 2007 disposed material. but likely higher due to the limited recycling facilities in the region, the varying existence of construction and demolition ordinances in the County, and subsequent enforcement. Because these materials are collected in roll-off containers, their composition was not analyzed through the CalRecovery study.

#### **Solid Waste Facilities**

The County has limited facility options for local diversion and disposal of materials. Tables 10 and 11 identify the current facilities used and their location. Marin Sanitary Service notes that their facilities are at 40 percent of capacity. With the downturn in the economy, capacity has increased, but it is uncertain what the capacity will be and if additional facilities are warranted once the economy rebounds. In addition, if the Member Agencies or franchise agencies require that the franchised hauler use a specific facility, there should be some form of tip fee rate oversight by a public agency.

There were 12 landfills that reported receiving JPA waste in 2007, but over 98 percent of the disposal occurred at three sites: Redwood Sanitary Landfill

(59.3%), Keller Canyon Landfill (24.7%), and Potrero Hills Landfill (14.2%).

Table 10			
Disposal I	Destination		
Facility	County Location		
Altamont	Alameda		
Vasco Road	Alameda		
Keller Canyon	Contra Costa		
Bakersfield*	Kern		
Azusa Land	Los Angeles		
Reclamation Co.	· _		
Redwood	Marin		
Foothill*	San Joaquin		
Forward	Manteca		
Ox Mountain	San Mateo		
Guadalupe*	Santa Clara		
B-J Drop Box	Solano		
Potrero Hills	Solano		

\*Received 5 tons or less

As shown in Table 11, there are few local facilities that can handle diversion of food waste and Construction & Demolition materials. While green waste also appears to have facility options available, a significant portion of the material is being used as erosion control at Redwood Landfill that could be composted if facilities existed in the region. The option of local facilities may not be a limiting factor, but the facilities available for consolidating the material and transporting it is another aspect that must be addressed.

Currently. Marin Sanitary Service Transfer Station is the only transfer station in the County that has the facility and potential to accept material from the region transport to it recycling/diversion facilities. The feasibility for expanding the role of the Transfer Station to accept the regions materials and potential siting of new facilities for both transfer and processing are discussed later in this report. The ability to increase diversion by material type and facility needs will also be discussed. Because Redwood Landfill receives the majority of the JPA's waste, a description of its operations is below.

This vehicle count does not include potential construction and demolition material traffic. Redwood Landfill also

Table 11				
Current Residential and Commercial Diversion Destination				
Material	Facility Name	City Location	Permit (TPD)	
Curbside Recyclables	Smurfit Stone	Oakland	N/A	
	Strategic Material	San Leandro	N/A	
·	Timber Cove Recycling	Santa Rosa	N/A	
	Marin Recycling Center	San Rafael	N/A	
Green Waste	Redwood LF	Novato	170	
(Compost)	Bolinas Stinson	Bolinas	N/A	
	Resource Recovery			
	West Contra Costa	Richmond	200	
	SLF Compost Facility			
	Northern Recycling Compost	Zamora	N/A	
Food Waste	Central Marin Sanitary Agency*	San Rafael	N/A	
C&D	Marin Resource Recovery**	Marin	750	
	Redwood LF	Novato	400	

<sup>\*</sup>Partnered with MSS. Currently is a pilot program that is expected to be fully operational in 2010.

#### Redwood Landfill and Recycling Center

Redwood Landfill and Recycling Center is located near Novato, CA. It is the only disposal facility in Marin County and is the main recipient of green waste The facility accepts for diversion. material from self-haul and commercial haulers. For 2009, it estimated that it receives 15-30 trucks per day of residential and commercial franchise hauler loads from West Marin, Mill Valley, and Novato. The direct-haul from the franchised haulers is a result of contracts that range between one and five year terms. With its permit approved in December 2008, the facility can now handle 415-615 personal vehicles delivering material per day. has been diverting green waste, wood, metal, biosolids and inerts. Alternative Daily Cover predominantly consists of wood waste.

Composting (Green Waste and Biosolids)

The site has a composting area with space for a grinder and turning windrows. The composting operation is limited to a maximum of 170 tons per day. Of that amount, biosolids can be a maximum of 80 tons and with the new permit, a maximum of 30 tons of food waste can be mixed in. Food waste is considered part of this tonnage if it contains meat scraps. Otherwise, unlimited vegetative food waste can be

<sup>\*\*</sup>Sorts loads.

mixed into green waste. The amount of food waste that can be included in the compost restricted in order to minimize to air emissions.

Green waste material that is not used for composting is used as erosion control on the slopes of the landfill.

#### Inerts

Inerts that go to the facility are used as ADC or road base. Waste Management, Inc. (WMI) is in the planning stages to construct and operate a C&D facility to process and sell material. WMI intends to operate this facility on a regional basis (for material coming from inside and outside of Marin County), but as it is owned by Waste Management, Inc., it may take its own material first.

There is also the concept of a "reuse center" that would be a buyback center for construction material. Permitting issues would need to be overcome before retail operations could begin. Regardless, salvaging material is intended to be part of the C&D facility operations.

#### Food Waste Digestion

Redwood Landfill reported that they are planning a digestion pilot project in 2010. Approximately 100 tons per day would be processed consisting of residential and commercial food waste, woody waste and soiled cardboard. The project is expected to generate five to six megawatts. This is enough energy to power approximately two percent of Marin County households.

# Household Hazardous Waste Collection

The County has several ways of properly disposing of hazardous waste. There is the permanent collection facility

located in San Rafael that collects all HHW material from residents and small The facility also hosts businesses. three, one-day events in Bolinas, Woodacre, and Point Reyes which are funded through the JPA. Other collection points in the County include collection permanent operated by the Novato Sanitary District, curbside collection of motor oil and filters through Mill Valley Refuse, and various local collection points for batteries and fluorescent light bulbs.

#### **Used Oil Block Grants**

Used Oil Block Grants are non-competitive grants offered by the California Integrated Waste Management Board. Funding provided to a jurisdiction is based on the population. Jurisdictions also can apply for competitive grants if there are specific projects that needed funding such as market studies and expansion of permanent HHW facilities.

The County of Marin Stormwater Pollution Prevention Program handles all aspects of the Used Oil Block Grants for the County except for the City of Novato which appliers for and administers the grant on their own through the NSD. For the 14th Cycle Used Oil Block Grant (FY 2008/09), the County (including Novato) received \$81,158 to maintain and increase collection of used motor oil and filters. The grant can be used for a variety of program-related expenses includina certified purchasing equipment for collection centers, recruiting centers into the program, stenciling storm drains, recycling costs for the used oil and filters, and administration of the grant.

The County of Marin has 13 certified collection centers, with six in San Rafael, four in Novato (plus the Novato Recycling Center) and one each in

Greenbrae and Pt. Reyes. These centers are concentrated in the two largest cities in the County and may not adequately serve the residents at further points in the County, such as Sausalito and Mill Valley or other agriculture areas. As recorded by the CIWMB, these centers collected 36,183 gallons of oil and 4,002 filters in 2007. This was an increase over the previous year of 13.7 percent for oil and 32.9 percent for filters.

While there has been an increase in diversion of oil and filters, it is important to note that the quantity diverted is dependent on the certified collection centers submitting reimbursement claims to the CIWMB. By determining the actual collection from all certified centers, the County of Marin and City of Novato will be able to better assess where their energy should be focused and determine if more centers must be recruited in underserved areas. addition, curbside collection that is conducted by Mill Valley Refuse goes to the permanent HHW facility and does not get recorded separately. becomes a record keeping issue and while reports from MVR could be submitted directly to the County, the main issue is that the County should have the information available to it to identify program progress and opportunities for improvement.

Beyond the reporting issue, because used motor oil is a component of the waste stream and part of some curbside collection programs, it is important that the JPA at least be aware of the amount of oil and filter collection occurring in the County and may be able to assist the ESD with recruitment of centers and outreach.

#### **Universal Waste**

In 2001, the Department of Toxic Substances Control (DTSC) formally

adopted the regulatory exemptions which allowed households and conditionally exempt small quantity generators (i.e. many small businesses) to temporarily dispose of certain U-Wastes in municipal landfills until February 9, 2006.

The intent behind the exemption was to allow time for the collection and recycling infrastructure and recycling capacity to develop without placing an undue burden on the hazardous waste management system. **DTSC** determined that the infrastructure was not being developed and on January 10, 2006, DTSC released an official notice stating that this landfill ban exemption would not be extended beyond February 8, 2006. The intent of this action was to force a public discussion about how to collect and manage universal wastes.

#### **Sharps**

In 2006, SB 1305 (Figueroa), Statutes of 2006, Chapter 64 (SB 1305), updated the Medical Waste Management Act by making it against the law for persons to knowingly place home generated sharps in the trash as of September 1, 2008. Sharps include disposable hypodermic needles, syringes, lancets, and other medical devices used for self-injection or blood testing, which may have a sharp tip or end. It also enumerated the following allowable disposal options:

- A household hazardous waste (HHW) facility;
- 2. A "home-generated sharps consolidation point";
- 3. A medical waste generator's facility;
- A facility through the use of a medical waste mail-back container approved by the California Department of Health Services.

The legislative intent of SB 1305, as outlined in the "findings" section of the bill, is as follows:

- development of (a) The а safe. cost-effective convenient. and infrastructure for the collection of millions of home-generated sharps, and the public education programs to promote safe disposal of these sharps, will require a cooperative effort by the State Department of Health Services, the California Integrated Waste Management Board, local governments, large employers, dispensing pharmacies, as well as health care, solid waste, pharmaceutical industries, manufacturers of sharps.
- (b) Since mail-back programs utilizing containers that have been approved by the United States Postal Service offer one of the most convenient alternatives for the collection and destruction of home-generated sharps, local government and private sector stakeholders are encouraged to implement mail-back programs and to promote their use prior to September 1, 2008.
- (c) Local governments, the California Integrated Waste Management Board, the State Department of Health Services, solid waste service providers, and manufacturers and dispensers of sharps are further encouraged to include information on their Web sites, and other public materials, that identify locations that accept home-generated sharps and provide information about available mail-back programs.
- (d) It is the intent of the Legislature that the California Integrated Waste Management Board and the State Department of Health Services, to the extent resources are available, continue to monitor the state's progress in developing the infrastructure for the collection of home-generated sharps and inform

the appropriate policy committees of any need for subsequent legislation to achieve the purposes of this act.

It is important to note that SB 1305 not mandate that local does government fund or manage a sharps program. but instead collection Section 1 (a) of the bill states clearly development of the sharps collection infrastructure will require "a cooperative effort" by the state, local pharmacies, governments, manufacturers. others and accomplish the goal. It then goes on to state in Section 1 (d) that it is the intent of the Legislature to have the state agencies continue to monitor progress on the development of infrastructure to collect sharps and of any need for subsequent legislation to achieve the purposes of SB 1305. In short, local governments cannot be held solely responsible for funding and operating sharps management programs. All stakeholders must work together to develop the required infrastructure.

#### Rechargeable Batteries

Rechargeable batteries have been addressed by legislation in California by AB 1125, which became effective July 1, 2006. The bill requires a person who makes a retail sale of a rechargeable battery to a consumer in the state, except for supermarkets, to take back rechargeable batteries from the consumers.

### Existing Local Take-Back Disposal Options

When sharps or U-Waste are improperly disposed of, they pose serious health risks to generators, garbage haulers, landfill personnel, and the public, and

create a threat to the environment. Injuries or illnesses can result from handling these wastes. Furthermore, these wastes can enter and pollute the creeks, rivers, and water supplies.

Universal Wastes are accepted at the Marin County Solid and Hazardous Waste Permanent Facility and the Novato Recycling Center. In addition, sharps and pharmaceutical take-back programs are prominent in the County and are described below. The collection programs target human uses of the materials, but veterinarian offices may be an opportunity to expand programs because pets are а growing demographic receiving medication.

#### Sharps

As mentioned earlier, the County Department of Environmental Health manages the outreach in the County for the collection of home-generated sharps. This program is the result of the public/private partnership started in 1994 with the San Rafael Fire Department and the Marin Recycling Center.

Through its efforts, 27 facilities collect sharps. Tables 12 and 13 give a breakdown of the collection locations and identify the amount of sharps that have been collected. The numbers do not include any sharps that may have been generated through regular business operations (e.g., hospitals) or disposed through mail-back programs.

Tabl	Locations in the
Gou Jurisdiction	Inty Number of Sites
Greenbrae	1
Larkspur	2
Marin	1
Mill Valley	4

Tabil	o 12
Sharps Collection	
Cou	Intly 3
Jurisdiction	Number of Sites
Novato	6
Pt. Reyes	1
San Anselmo	3
San Rafael	9
Total	27

Table Sharps Collection	
FY 05-06 to	
FY 05-06	8,330
FY 06-07	7,642
FY 07-08	6,745
Total	22,717

Tables 12 and 13 show that there is an established network of facilities and businesses that residents have access to. Due to the recent nature of sharps being banned from disposal, it is unique that the County has been tracking the collection for so long and has such a large partnership with businesses as compared to other Counties. However, there has been a steady decrease in the amount of sharps delivered to these locations for disposal and efforts should be made to reverse the trend.

# Pharmaceutical Waste Collection

Pharmaceutical materials in the waste stream are an area of growing concern and the County already has a network of 13 businesses that accept the material

<sup>&</sup>lt;sup>4</sup> FY 05-06 and FY 06-07 does not include the Novato permanent HHW facility collection.

back from the public. Like the sharps collection, the participating businesses are pharmacies and hospitals. Tables 14 and 15 identify the concentration of collection points and the amount of material residents disposed through them from FY 05-06 to FY 07-08.

Table Pharmaceutical Locations in	Vaste Collection the County
Junstiction	Number of Sites
Larkspur	1
Mill Valley	2
Novato	3
San Anselmo	3
San Rafael	4
Total	13

in County fro	e 15 Waste Collection m FY 05-06 to 7-08
Time Period	Pounds
FY 05-06	633
FY 06-07	1,186
FY 07-08	1,462
Total	3,281

Pharmaceutical waste collection has disposal locations throughout the County. The spread out locations of the collection sites provide opportunity for residents to safely dispose of their unused medication. Because it is difficult to quantify the amount of material that is generated, there is no way to determine what percent the County's efforts are collecting.

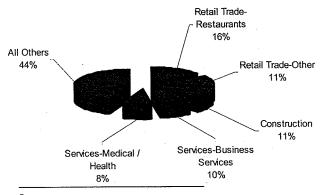
### Opportunities for Increasing Diversion

Of the materials currently disposed, the franchised haulers already have curbside programs in place for the collection of the paper, yard waste and glass. Based on feedback from the haulers, the residential green waste setout rate is 70-80 percent and the residential recycling set-out rate is over 90 percent <sup>5</sup>. This section identifies opportunities for increased diversion.

#### **Paper**

In addition to green waste, paper is another significant commodity that is not being collected. Because the set-out rate for recycling at residences are over 90 percent, the greatest increase in diversion will be achieved by focusing on the commercial sector. Figure 3 identifies the main business types located in the County. There are a couple methods/programs that can be implemented to increase the diversion of this and other materials generated by the commercial sector.

Figure 3
Top 5 Commercial Business Types
by Waste Disposed



<sup>&</sup>lt;sup>5</sup> The MSS rate is 90-95% as per a JPA commissioned study by California Waste Associates.

#### Wet and Dry Collection

One way of increasing diversion is to have the franchised haulers develop a wet and dry material collection route. This means that the routes are designed to pick up mostly dry loads (e.g., paper, glass) in one truck to contamination that could occur if a restaurant's material was also placed in same truck. Conversely, businesses that generate wet loads (e.g., food, grass) would have their contents emptied into the same truck. This collection process and its benefits are described later in this Feasibility Study.

## Commercial Recycling Ordinance

Another way of increasing diversion could be having each jurisdiction in the County adopt a mandatory commercial recycling ordinance. This ordinance could also work in tandem with a wet/dry collection method. The details of the ordinance and its diversion benefits are described below. Regardless. mandatory commercial recycling ordinance will need to be adopted in year 2012 as part of compliance with AB 32. The CIWMB is currently developing the regulations.

# **Construction and Demolition Ordinance**

The JPA has 12 jurisdictions (including the County) that it recommends adopt construction and demolition (C&D) debris recycling programs. A 2004 waste characterization study by the CIWMB identified that C&D materials account for nearly 22 percent of the waste stream. Many of these materials can be salvaged or recycled. The C&D waste stream represents a potential long-term diversion opportunity for the

County. The JPA has developed a model ordinance as a guide for Marin County jurisdictions to follow to help reach this goal. The status of the 12 jurisdictions adopting the ordinance is as follows:

- Five have adopted a C&D ordinance (the County, Mill Valley, Novato, Sausalito, and Tiburon);
- Five have no provisions for C&D recycling currently (Belvedere, Bolinas, Fairfax, Ross, San Rafael).
- One is planning to adopt an ordinance in the near future (San Anselmo); and
- One requires "Build it Green" standards for permitted construction projects (Larkspur). Novato enforces "Build it Green" requirements as well in addition to their C&D ordinance.

The JPA recommends a goal of 50 percent diversion which has been universally adopted by jurisdictions with a C&D ordinance, as well as Larkspur where the "Build it Green" program requires 50 percent recycling as well.

#### Waste Management Feasibility Studies

Of the five jurisdictions requiring C&D ordinances, all of them require some kind of Waste Management Feasibility Study (WMFS) to assist in documenting and verifying 50 percent diversion. Construction or demolition may not commence until the plan is accepted. The JPA model ordinance also calls for a WMFS but also suggests a deposit system based on project size be implemented. However, none of the **WMFS** compliance enforcement measures of the five jurisdictions follow this suggestion. The WMFS plans are meant to estimate waste generation and formulate a plan for recycling 50 percent of the materials. Upon completion of the project, receipts demonstrating

destination of the C&D loads are required by the jurisdiction.

#### Project Thresholds

The JPA model recommends that the project threshold for projects covered by the ordinance be 1,000 square feet. The Cities of Mill Valley and Sausalito's thresholds include all projects with the re-roofing, of window exemption and drywall projects. replacement However, Mill Valley uses its discretion which tends to include projects about 500+ square feet. Novato has the threshold at all projects over 500 square feet and the County areas include all projects without exception. The Town of Tiburon does not have a threshold but uses its discretion during permitting for which projects must comply.

#### **Enforcement**

The JPA model suggests a security deposit of three percent of project value be submitted by contractors for each project. The deposit is to be returned based on compliance. The model also suggests possible additional fines for non-compliance. None of the jurisdictions use a deposit system.

Enforcement for all Member Agencies, except Tiburon, lies in the right to withhold occupancy permits pending adequate recycling; Tiburon has a \$500 fine for non-compliance. The other four jurisdictions may also assess fines in addition to withholding permits. Fines range from \$500 to \$2,500. The City of Mill Valley has expressed that the threat alone of withholding a certificate of occupancy has caused there to be no instances of non-compliance. All the other jurisdictions with ordinances also expressed that they have had no issues with non-compliance up to this point; however, the County expressed that some contractors would lose receipts in which case the County would require a

document with an explanation of destinations for loads.

#### Use of Fines

None of the five jurisdictions mandate how to use funds collected from fines for non-compliance. The JPA model suggests that they be used solely for recycling purposes.

#### **Limited Facility Options**

A construction and demolition program is dependent on the facility quality that C&D materials are delivered to. No matter how closely contractors follow recycling plans, it is ultimately the facilities that determine how much material is diverted. Redwood Landfill and Marin Resource Recovery Center are the two main facilities contractors are reported to be using. MSS states that they have capacity to handle the County's C&D waste stream. Member Agencies or franchise agencies require the material to be taken to a specific facility, there should be some form of tip fee oversight by a public

Jurisdictions also depend almost entirely upon the accuracy of weight receipts distributed by facilities that contractors attach to waste management reports as proof of diversion. Mill Valley, Sausalito, Tiburon and the County all cited the ability to verify the accuracy of receipts and assess compliance as the biggest challenge facing the success of the C&D recycling program. Since jurisdictional staff are going to be reviewing weight receipts to verify compliance regularly for C&D recycling programs, it is critical that staff be familiar with facilities or at the very least the facilities' reporting. There is also little a jurisdiction can do to verify that the attached weight receipts actually correspond to the project under consideration. The Marin County Department of Public Works'

report in June of 2007 stated that gate receipts are not proof of recycling, but that city staff must be trained to recognize proper proof.

An agreement with facilities standardize clear and concise distinctions on weight receipts would be beneficial; MSS reports that they are already doing this. Distinctions could include origin of C&D waste and potentially a note acknowledging the material has been accepted as C&D and will be recycled accordingly. The City of Novato could offer leadership in this as they were the only respect. jurisdiction to report being satisfied with their ability to verify receipts. Novato reported that Redwood Landfill will guarantee materials are recycled for an additional charge. This guarantee is then communicated through a special stamp on the receipt that Novato staff can easily identify. For loads delivered elsewhere, staff accepts that loads that are delivered to MRFs are diverted.

#### Suggestions

For the full benefits of C&D debris recycling efforts to be realized, universal adoption of ordinances is essential. Six jurisdictions with no provisions for C&D recycling is a missed opportunity, for example, San Rafael (comprising about 23 percent of the County's total population) is included among those lacking an ordinance.

Thresholds for projects covered by the ordinance requirements are important to align with the goals of C&D recycling. For example, the Town of Tiburon defines the threshold as projects, "likely to generate substantial construction or demolition debris". This threshold creates opportunity for projects potentially choosing not to adhere to the ordinance despite the amount generated debris. Alternatively. defined threshold that is low such as

500+ square feet creates the potential for minor increases in diversion for high administrative costs. A high volume of projects being covered by the ordinance is less effective in achieving diversion goals than focused attention on high generation projects. For example, the City of Mill Valley exempts re-roofing projects from the requirements of the ordinance. Similarly, the City of San José transitioned from requiring reroofing projects to comply to instead exempt them. This is due to the administrative burden it places on a jurisdiction's staff because of the large number of re-roofing projects that occur and the limited amount of C&D debris they generate. Other jurisdictions have found that the administrative burden of handling re-roofing projects is not worth the resources for the limited increase in C&D material diversion.

Along those same lines, non-compliance enforcement should better align with the actual goals of the ordinance. For example, in the City of Sausalito an administrative fine of \$500 is assessed non-compliance. For demolition projects, a \$500 fine might be a disincentive to recycle debris if the cost to recycle is more. The larger projects should actually be the focus of the C&D ordinance since they represent the largest tonnage generations and reasonable efforts should be made to provide compelling incentives contractors to recycle as much material as possible. A retroactive fine of \$500 may, in some cases, not be enough incentive. The City of Mill Valley, however, has no financial incentive of enforcement, but rather solely depends on the threat of withholding certificates of occupancy and final approval. Per Mill Valley staff, the threat alone has been enough of an incentive as they have never had to exercise punishment for non-compliance.

# Deconstruction/Salvage of Buildings

In addition to the C&D Ordinance, the County Community Development Agency is promoting the deconstruction and salvage of materials prior to demolition tear-out of buildings. Agency has a reuse grant to encourage deconstruction contractors to provide services in Marin County and to site a reuse facility for construction and demolition materials. Through the grant, Marin Sonoma Deconstruction and Demolition Services. Inc., a local deconstruction/salvage company, has begun operating.

### Marin-Sonoma Deconstruction and Demolition Services, Inc.

This company contacts homeowners that have pulled a permit to inform them of the option to donate to charity their soon-to-be demolished or removed fixtures. The company partners with the Reuse People and Reuse Network, amongst others, to take salvaged items for the purpose of reuse and resale.

The scope of deconstruction and salvage in the County can increase as ordinances are established that require a walk-through prior to demolition or other requirements to maximize recovery and reuse of materials and appliances. The County of Marin and the City of Mill Valley are both currently exploring such an ordinance.

#### Food Waste

Food waste is a significant portion of the waste stream that is generated by residential and commercial units, but does not currently have a large-scale method of recycling to eliminate it from the disposal stream. While the generation of these materials may be more concentrated with the residential sector, restaurants contribute up to 15.9

percent of the business waste stream (based on CIWMB 1990 generation tonnages). This does not account for other businesses that may have cafeterias in their facilities. Consequently, by implementing a food waste program, the amount of material disposed can be significantly reduced.

Although the concept of adding food waste recycling in the County is ideal, there are limitations with facilities can accept it. In addition, if food waste collection is to be added as a residential recycling service, the material will most likely be mixed with green waste which will require weekly collection. resident does not have green waste service, they will need it to participate in In addition, franchised the program. haulers will need to develop public education materials. and distribute kitchen pails to inform and encourage residents to participate. Based on findings by the Alameda County Waste Management Authority, a new food waste program can divert approximately 8 pounds per household per week and for a mature program up to 10 pounds per household per week.

While establishing the collection of food waste is one element, there also must be a facility that the material can be taken to. In the County, the only place that is currently handling some food waste is Marin Sanitary Service and it's a pilot program. The other possibility is Redwood Landfill's compost facility now that their permit has been approved. However, due to the air emission concerns, the landfill is limited to receiving a maximum of 30 tons per day of food waste. Whether the food can be mixed with the green waste or must be separate, remains to be determined. Currently, lawsuits are preventing the composting operation from beginning.

When the necessary permits are in place, which is anticipated to be in 2010,

MSS will begin co-collecting residential, kitchen food waste in the curbside green waste can for composting.

Additionally, a feasibility study has been completed, sponsored by PG&E, CMSA, the City of San Rafael, the City of Larkspur and MSS. It will allow for the development of a commercial food waste-to-energy, public/private partnership and eventual composting. This partnership will likely begin in mid-2010 from the restaurants and other points of food waste currently collected by MSS.

Other facilities that may be able to accept the mixed food waste and green waste material are presented in Table 16. The facilities are listed in order of least distance from the City of San Rafael.

A future potential facility for consideration is Zamora. The facility is partly owned by Marin Sanitary Service and they are interested in having the facility permit changed to accept food

waste. If this change occurs, the County will have another potential site to deliver the food waste to be composted.

Facilities accept food waste were researched to determine if there are any limitations to the type of food waste accepted and if the food waste can be combined with green waste upon delivery to the facility. All of the composting facilities that accepted the material stated that there is a problem with receiving glass and plastic in the deliveries. If food waste were to be added to the City's collection services, public education will be a crucial element to minimize "contamination".

Digestion of the material for energy and compost production is another option that is discussed later in this report. An alternative method of diverting food waste is also being pioneered by Waste to Water, LLC using a vessel that can digest 1,000 pounds of food waste per day with water as the discharge.

Table 16 Summary of Compost Facilities That Accept Food Waste				
Facility Name	Location (County)	Miles From San Rafael		Can Be Mixed with Green Waste?
Jepson Prairie Composting*	Vacaville (Solano)	57.6	Accepts all food waste	Yes
Grover Landscape Services, Inc. **	Modesto (Stanislaus)	80	Accepts all food waste	Yes
South Valley Organic Composting Facility	(Santa Clara)	100	Accepts all food waste	Yes
Z-Best Products	Gilroy (Santa Clara)	100	Accepts all food waste	No
Kochergen Farms Composting	Avenal (Kings)	214	Accepts all food waste	Yes

<sup>\*</sup> Currently does San Francisco's food waste

<sup>\*\*</sup>Livermore is transferring material to the facility using Davis Street TS

#### **Green Waste**

The CIWMB is currently considering several options to encourage more composting and discourage green material use as ADC. Options to change material use include the following:

- Assessing additional fees to green materials being used as ADC at a landfill.
- Phasing in of increased fees assessed to green materials being used as ADC.
- Defining green material ADC usage as disposal rather than diversion.
- Phasing in a definition of green material ADC as disposal rather than diversion.

In any case, the forecast of green material regulation in the State of California warrants the case for jurisdictions to seek alternatives to ADC usage of green materials and increase composting. Marin County may face the need to find a solution for green materials other than Alternative Daily Cover at Redwood Landfill in the near future.

Marin County jurisdictions already provide residential curbside collection of yard waste. Redwood Landfill uses the material for use as ADC, erosion control and compost. Novato Disposal notes that green waste sent to Redwood Landfill from them is not being used for ADC. Seventeen composting facilities have been identified within 100 miles of the City of San Rafael. Table 17 below lists these facilities by distance.

	Green Waste Compost	Table Facilities Withir		e City of San Rafae	21.00
Location	Facility Name	Facility Type	Miles from San Rafael	Capacity/ Day	Capacity Available (Tons)
Sonoma	Central Compost Site/Sonoma Compost	Composting	28.6	300	None
Napa	Napa Garbage Service Mat. Diversion Facility	Transfer/ Processing	31.2	360 tons	N/A
Alameda	Fremont Recycling & TS	Transfer/ Processing	51.1	2,400 tons	N/A
Vacaville	Jepson Prairie Composting*	Composting	57.6	750	300/day
Santa Clara	Greenwaste Recovery Facility	Transfer/ Processing	63	934 tons	N/A
Modesto	Grover Landscape Services, Inc.	Composting	80	2,000	1000
Zamora	Northern Recycling Compost- Zamora	Composting	82.7	N/A	N/A
Gilroy	South Valley Organic Composting Facility	Composting	100	750	70-90/day
Gilroy	Z-Best Products	Composting	100	1,500	300/day
Avenal (Kings)	Kochergen Farms Composting	Composting	214	1,000	500/day

Other than Redwood Landfill, hauling distance remains a difficulty as the next nearest composting facility is 28 miles away in Sonoma County. Capacity also poses a concern as many of the facilities listed are near heavily populated and high waste generating areas.

Since there are no composting facilities within the County, the option exists to haul green materials to a transfer station. MSS reports that they are currently composting all green waste they collect. Table 18 below lists transfer stations accepting green materials within 100 miles of the City of San Rafael.

	<b>—</b>	Table 18 Stations that Accept G		
County	Facility Type	Facility Name	Gapacity/ Day	Miles from San
	Transfer /	Marin Sanitary		
Marin	Processing	Service TS	2,640 tons	0
	Transfer /	Berkeley Solid		
Alameda	Processing	Waste TS	560 tons	17.8
	Transfer /			
Sonoma	Processing	Sonoma TS	760 tons	22.8
		Central Disposal		
	Transfer /	Site/ Sonoma		
Sonoma	Processing	Compost	2,500 tons	28.7
	Transfer /			
Napa	Processing	Devlin Road TS	1,440 tons	30.9
		Napa Garbage		
	Transfer /	Service Mat.		
Napa	Processing	Diversion Facility	360 tons	31.2
	Transfer /	Davis St TS /		
Alameda	Processing	Recovery Complex	9,600 tons	33.5
	Transfer /	SF SW Trans &		
San Francisco	Processing	Recycling Center	3,000 tons	33.9
	Transfer /			·
Sonoma	Processing	West College TS	99 tons	37.7
	Transfer /	Fremont Recycling		
Alameda	Processing	& TS	2,400 tons	51.1
	Transfer /			
Sonoma	Processing	Healdsburg TS	720 tons	54.8
	Transfer	BFI's Recyclery	:	
Santa Clara	/Processing	(Newby Island)	1,600 tons	56.3
	·	Pacific Union		
	Transfer /	College Trans		
Napa	Processing	Facility	90 tons	58.1
	Transfer /	Zanker Road		
Santa Clara	Processing	Landfill	1,300 tons	60.7
	Transfer /	Greenwaste		
Santa Clara	Processing	Recovery Facility	934 tons	63
	Transfer /			
Santa Clara	Processing	Mission Trail TS	375 tons	67

	·			
		Table 18		
	Transfer	Stations that Accept	Green Waste	
				Miles from San
County	Facility Type	Facility Name	Capacity/ Day	Rafael
	Transfer /	Guadalupe San		
Santa Clara	Processing	Landfill	3,650 tons	77.5
		San Martin		:
	Transfer /	Transfer &		
Santa Clara	Processing	Recycling	100 tons	90
	Transfer /	Pacific Coast		
Santa Clara	Processing	recycling	480 tons	97.7
	Transfer /			
Sonoma	Processing	Annapolis TS	99 tons	100

Jurisdictions being served by Bay Cities Refuse, Inc. could use the Berkeley Solid Waste Transfer Station and the remainder might be able to use Marin Sanitary Service Transfer Station (the facility has approximately 1,320 tons per day available for transferring material).

### Other Strategies for Increasing Diversion

Other jurisdictions across California have come up with a wide variety of unique strategies for increasing diversion of green materials.

Replicating these programs may be difficult with the limited-to-no facility siting options in the County due to land use restrictions (e.g., wetlands).

The City of Modesto operates its own composting facility. The benefits of doing so have been to save on landfilling costs and to realize the revenues generated from selling composts products produced at the facility. The compost products are also used at parks, on median strips and beautification projects. Modesto diverted 31,000 tons of green waste in 2001.

The City of Burbank has gone another route by partnering with its hauler and an orange grove in the nearby area. Green materials collected from within

the city are hauled to the 1,300-acre orange grove where the materials are composted and then used on-site as compost products. Over 19,000 tons of green material is diverted annually. The City also hosts 4 to 5 compost workshops each year which has helped lead to an annual total of 750 tons of green waste diverted through backyard composting.

The City of Los Angeles operates a compost facility in a large park where green material and zoo manure are composted. Finished compost product is used then to improve parkland landscapes or is sold to some private vendors. Some is donated to nonprofit organizations and schools for gardening or community improvement projects.

The facility's central location allows it to double as a convenient education center where citizens may learn how to compost in their own backyard and buy the necessary equipment to do so. Citizens may also buy compost products for their own landscapes and gardens. The key benefits have been to help Los Angeles reach diversion goals and save over \$170,000 annually from collection and disposal costs.

The benefits from the three models above of siting a facility are multi-

faceted. The following are examples of benefits:

- Extended landfill life expectancy;
- Avoided disposal costs;
- Revenues from sale of compost products;
- Convenient location allows for public education; and
- Highest and best use of green materials.

Another method of increasing diversion is to encourage backyard composting either through individual household or community efforts. The County of Marin has a Master Gardeners program that can be a resource to educating the public on best practices. In addition for people who do not want to compost in their backyards, or do not have space, a community garden could be an activity undertaken where residents can bring their food scraps, raise crops/vegetation and potentially receive compost for home use. Having a local and tangible method for people to divert resources and observe the benefits of the diversion can be positive reinforcement for sustaining diversion activities.

#### **Maximizing Diversion**

#### Wet vs. Dry Material Collection Routes

#### Waste Diversion Projections

Based on waste characterization data available on the California Integrated Waste Management Board's website, and shown in Figure 4, the four largest components of the residential waste stream disposed (in 1999) in Marin County are food, leaves and grass, other organics, and other paper. These four categories total to almost half of the total residential waste disposed.

Of the non-residential materials disposed, the four primary components

are food, other paper. Corrugated cardboard, and leaves and grass (see Figure 5). These four categories total to about 40 percent of the total non-residential waste disposed.

Figure 4
Top Four Residential Materials Disposed

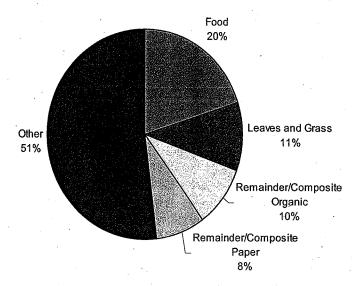
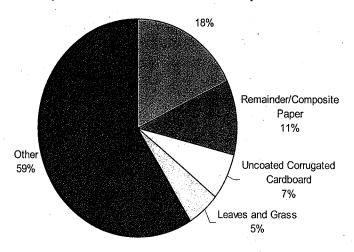


Figure 5
Top Four Commercial Materials Disposed



Some (unknown) amount of the paper and cardboard are recoverable as fiber for recycling, but much of it is soiled and not suitable for recycling. However, all of the materials previously identified make good feedstock materials for composting.

#### Residential Collection Services

The dual-stream collection of recyclables would continue to collect paper fiber and other recyclables. Recyclables would include all materials for which there is an existing market, plus a few material types collected to make recycling easier for the residents. For example, the plastics industry has found that when all plastic containers are collected, more PET and HDPE containers are recovered than when only PET and HDPE containers are collected.

But instead of collecting yard waste and garbage as the other two components of the waste stream, haulers would collect all compostables and rubbish.

Compostables would include all plant trimmings, food scraps, and food soiled paper. Compostables would need to be collected weekly, but none of the other category groupings would need to be collected weekly; although for convenience of the residents, it is recommended that all four categories should be collected weekly.

Collected rubbish would include all materials not included in the other three categories (recyclable paper, other recyclable materials, and compostable materials). More specifically, rubbish would include mixed material products (such as toys), aseptic packaging, and would plastics. Rubbish film classified as those materials for which there is no viable market. Ultimately, these are the materials that will be Producer by Extended addressed Responsibility mandates.

These two pairs of materials would each be collected in a two compartment truck. The compostables and rubbish in one truck, and the paper fiber and other recyclables in the other truck.

Changing the categories of materials collected provides a major opportunity to increase diversion. With the proposed four categories, most of the organics and more of the recyclable materials will be recovered than in the current system. Letting the residents and businesses know that if they keep the organics stream 'clean' [no glass and no chemicals], it does not have to go to the landfill, and will not produce methane, a very potent greenhouse gas. This will allow them to change the mindset from 'I don't want to bother recycling so I just throw everything I'm not sure what to do with in the garbage' attitude, into 'the only stuff that goes in the rubbish bin is that is not recyclable stuff compostable.'

Based on a similar system implemented in the Town of Los Altos Hills in October 2008, it is possible to achieve a diversion rate of over 85 percent of the franchise collected residential waste materials with this type of program.

#### Costs of Services

It is clear that there are both added costs and savings to reorganizing the collection system.

Some of the features are:

#### 1. New collection vehicles

To collect the four streams of materials, two split-bodied trucks would be used; instead of the three trucks currently collecting garbage, green waste and recyclables. This would mean retiring the single compartment garbage and green waste collection vehicles and buying additional split bodied trucks.

#### 2. Lower collection costs

This could reduce the total number of trucks on the street by as much as 40 percent, and would also reduce the

number of drivers needed to collect from all households.

#### 3. Smaller carbon footprint

Fewer trucks on the street burning less fuel means that less air pollution is produced.

### 4. Organics processing at higher cost than landfill

The cost of processing mixed organics, as compared to the costs of processing clean green plant trimmings, is considerably higher (possibly three times as much). This added cost is offset by the reduction in tons hauled to landfill and the reduced landfill tipping fees. Since there is no mixed organics processing facility in the County currently, one would need to be opened, or the organic materials would need to be hauled greater distances.

#### 5. Much smaller carbon footprint

Removing all of the organic materials from disposal at landfill will greatly reduce the methane generated at the Redwood Landfill. Even though there is a methane recovery system in place at the landfill, much of the methane is still released into the atmosphere. The nitrogen rich food scraps landfilled are a significant part of the methane generation problem.

#### 6. Higher diversion rate

Collecting organic wastes separately from other wastes so that they can be composted, allow the jurisdictions to reduce the number of tons landfilled, thus increasing the diversion rate.

#### Commercial Collection Services

To accomplish a similar recovery rate in the commercial sector, it will be necessary to implement or expand 'selective routing' services.

Routes will be designed to bring high percentage materials in for processing.

Dry recyclables in a dual stream collection system (fiber as one component and metals. glass and marketable plastics as the other component) can be collected in a split body front loader, or on separate routes.

Office buildings and retail stores would be provided with a bin for paper fiber, and a small bin for other dry recyclables, and a bin for organics from breakrooms and bathrooms.

Organic wastes from restaurants, bars, florists, grocery stores, and other food service accounts (and any accounts disposing of landscape wastes) will be collected in a separate route.

Other types of commercial accounts would receive the appropriate services to maximize recovery of materials.

### Education and Promotion of the New Four-Sort Program

One important key to the success of both the residential and commercial four-stream programs will be to inform the public of how these new programs operate, and the results that can be achieved if individuals participate fully.

A multi-dimensional promotion and education program should be used to reach as much of the community as possible. Printed materials with lots of clear graphics are a key to the success of the new program. It might be beneficial to provide each house with a food scrap container so that they can easily store materials in their kitchen for deposit into the organics cart, or into their backyard compost bin. The food scrap containers should be sized to conveniently fit into a dishwasher; and have a detachable lid (e.g., 1/2-gallon juice pitcher). Containers can purchased through grants. The distribution of containers would be most efficiently conducted by the haulers.

## Commercial Recycling Ordinance

Jurisdictions in California are beginning to focus on the commercial sector to achieve increased diversion rates and AB 32 requires the adoption mandatory recycling ordinance. While the regulations are being developed, the Sacramento Regional Solid Waste Authority's (SWA) ordinance provides an example of what the JPA can model.

In 2007, the SWA, which includes the City of Sacramento and the County of Sacramento, was the first to implement a mandatory recycling ordinance that required any business that generated more than four cubic yards of disposal in a week must recycle. As required by the ordinance, franchised haulers must have recycling containers at all of the businesses they service and each business must have a recycling plan on It is then the file with their hauler. responsibility of the business to ensure that all recyclable materials are placed in the proper container. If the ordinance is not followed, they can be subject to fines.

established While the SWA the developed ordinance and and distributed public education materials, they have contracted with the County of Environmental Sacramento Management Department (EMD) to enforce the ordinance. Enforcement is conducted by visiting the businesses to determine if a business recycling plan has been developed and checking to ensure that recyclable materials are not being disposed. It is anticipated that the EMD will inspect one-third of the businesses every two years.

After six months of being enforced, the ordinance had resulted in increasing business diversion tonnage by 21 percent. As the program continues, the diversion tonnage is expected to

increase. The success of the ordinance in the SWA can be duplicated in the County of Marin if administration partnerships are developed between the Member Agencies and the JPA.

#### **Conversion Technologies**

Conversion technologies are the processes that transform municipal solid waste into heat, steam, electricity, natural gas, and liquid fuels. The main types of conversion include thermal, digestion and hydrolysis. Below is a summary of the technologies.

Pursuing any of these technologies locally (within the County of Marin) will require the siting and development of infrastructure to pre-process material to recover recyclable materials perform the conversion. As noted previously, lack of siting options in the prevent such will likely County infrastructure from being developed.

#### Thermal

Under controlled conditions, the thermal process uses or produces heat to change the composition of the material in to a gas form to generate electricity. Products of the process include synthesis gas or fuel gads, fuels, vitrified residue or char, and recovered metals. Most waste-to-energy (WTE) technologies are this form of conversion. WTE of municipal solid waste can produce steam that can be used for generating electricity.

#### Plasma Arc

This technology is an alternative of thermal conversion technology and uses combustion temperatures inside a pressured chamber with little to no oxygen. This environment enables the materials to be made into gas, liquid, and solids. The gas can be used to make a gas similar to methane, liquids

can be cooled into a variety of metals, and solids are a waste to be disposed.

Because this conversion process requires uniform material size, pre-processing of material is required.

Digestion (Aerobic and Anaerobic)

The digestion process decomposes organic material using microbes. The aerobic process generates compost as the end product and anaerobic digestion produces biogas (can be captured to produce electricity) and compost. This method of conversion is combined with a presorting of material to eliminate recyclable materials from the digestion process.

#### **Biomass**

Biomass is energy produced through the burning of wood chips and other similar materials. The material must be clean of other materials before this technology can be used. A byproduct of the process is also fly ash which is commonly used as a soil amendment. Haulers currently send some wood material to biomass facilities located outside of Marin County. MSS reports that they are currently using biomass technology in the development of on-site fuel for MRRC.

#### Hydrolysis

Hydrolysis is the chemical reaction where water reacts with another substance (usually acid) to form new substances. The cellulose is removed from the waste to create sugar which is then fermented to ethanol or other acids.

These types of conversion technologies would be used for material destined for the landfill after all recyclables and green waste is removed for higher and best use. The main benefits of using such technologies is that the material is used to generate electricity, possible greenhouse gas emissions from

disposal are avoided, and the resulting product is significantly less in weight and volume to be disposed or it is reusable in the form of compost. The thermal process of gasification, pyrolysis and plasma arc can divert between 72-100 percent of the disposal weight. In contrast, anaerobic digestion can divert 68-85 percent of the material.

As of May 2008, countries that had employed diversion technologies for the waste included Israel and Spain for Anaerobic digestion. Japan and Malaysia for gasification, United Kingdom for pyrolysis, and Mexico, Japan, and Canada for plasma arc. The only technology that has been undertaken in the United States so far been pyrolysis in Romoland, California that is permitted for 18,250 tons per year.

As noted above, demonstration of these projects in the United States is lacking partly due to access to feedstock and regulatory restrictions. For example, thermal technology is not eligible for renewable energy credit and there may be limitations to using the conversion technologies.

#### Marin County Food Waste Anaerobic Digestion and Composting Pilot Projects

several food digestion There are projects that are in the early stages of development (planning or test pilots) and intend on being fully operational within the next five years. The three projects include a partnership between MSS and the Central Marin Sanitation Agency CMSA) for commercial food waste, MSS and Redwood Landfill for residential food waste, and Pacific Biomass for residential and commercial food waste. The overview of the pending facilities and ability to handle

the JPA's waste stream is discussed below.

#### Marin Sanitary Service

Anaerobic digestion is currently being performed at Waste Water Treatment Plants (WWTP), but the addition of food waste to the feedstock enhances the amount of biogas produced therefore increasing electricity generation. In October 2008, Marin Sanitary Service initiated a bio-cell/bio-filter program for commercial food waste composting. In December 2008, Marin Sanitary Service began a commercial food waste-to-energy feasibility study. It is anticipated that the food waste digestion will be fully implemented in early 2010. The pilot program is discussed below.

Based on the waste composition survey conducted by CalRecovery in 2008, it is estimated that the MSS service area collects 15 tons per day of commercial food waste (equivalent to a transfer trailer). In addition to the anaerobic digestion program, MSS is also conducting a pilot in-vessel composting project where food waste is mixed with green waste.

For the purpose of the digestion study, food waste had to be separated into the appropriate components before the material could be mixed with the biosolids at the Central Marin Sanitation Agency Waste Water Treatment Plant As with other diversion (WWTP). methods, having a facility capable of handling the material is a limiting factor. A variety of locations were explored for the processing including NorCal Jepson Prairie Facility in Vacaville, CMSA WWTP, or retrofitting the MSS transfer station where the truck parking currently is located.

The benefits of adding food waste to the digestion process as summarized by the Methane Capture Feasibility Study conducted by Kennedy/Jenkins

Consultants in December 2008, were the following:

- Extend landfill life by diverting commercial food waste from Redwood Landfill;
- Reduce truck traffic from solid waste transport to Redwood Landfill;
- Increased financial benefits and reduced tip fee;
- Capture the energy content of food waste for beneficial use;
- Reduce greenhouse gas emissions and reduce carbon footprint;
- Provide 230kW of renewable energy;
- Minimize use of natural gas purchased by CMSA;
- Produce minimal residual from digestion process;
- Conform with the City's and County's green initiatives; and
- Accommodate the future processing of other food wastes.

#### Potential Drawbacks

As mentioned previously, there is a lack of infrastructure currently available to handle the potential 15 tons per day of commercial food waste from MSS. In order for the project to be viable. transportation and processing of the material must be determined and Kennedy/Jenkins the executed: Consultants investigated the options. However, the facility recommended to process the food waste is projected to handle around 40 tons per day. While this would serve the MSS collection and potentially the addition of residential food waste, the other areas of the JPA would not have the option having the over 200 tons per day of material use the food processing facility, potential transfer station or having the material be used by CMSA.

#### Pacific Biogas Energy, LLC: Digestion

Another biogas digestion project that is currently in the planning stages is being undertaken by Pacific Biogas. The proposed organics (green waste only) digester is planned to be sited in Marin County and will accept residential and commercial food waste and yard waste. The digestion process will also accept soiled paper products, waxy old corrugated cardboard, etc., and no presorting/screening of the material is needed. It is anticipated that the facility will accept material six days a week and between 15,000-30,000 tons per year.

the permitting process completed, it will take one year to develop and build. The project and digestion will occur in two phases: Phase I-aerobic and Phase II-anaerobic. Phase I is anticipated to begin in 2009 and Phase II will begin in the second or third quarter of 2010. Once the facility is operating at capacity, it is anticipated that up to 1 Mega Watt will be generated and sold to the Marin Energy Authority; this equates to powering approximately 1,000 homes. Compost that is created as a byproduct will be sold for commercial use.

## Extended Producer Responsibility

The intent of EPR is to focus on the creation of 'cradle to cradle' recycling systems that are designed, financed. and managed by the producers themselves. The JPA has been supportive of California legislation that promotes more producers responsibility for the handling and disposal of products at the end of their useful life. The JPA also supports the non-profit California Product Stewardship Council. This section identifies current options for products.

#### Rechargeable batteries

Options for collection and proper disposal of rechargeable batteries exist. A stewardship program was founded by the rechargeable battery industry in 1994 called the Rechargeable Battery Recycling Corporation (RBRC), RBRC is a national non-profit, public service organization comprised environmentally-aware rechargeable manufacturers. batterv retailers. businesses, communities and public agencies that are committed to the responsible recycling of rechargeable batteries and cell phones in the United States and Canada.

RBRC's easy and free recycling program, Call2Recycle™, collects and recycles cell phones and Nickel Cadmium (Ni-Cd), Nickel Metal Hydride (Ni-MH), Lithium Ion (Li-ion), and Small Sealed Lead (Pb)\* rechargeable batteries - the types of batteries that power a variety of popular cordless products, such as power tools, cellular and cordless phones, laptop computers, camcorders, two-way radios, and digital cameras. While there are options for rechargeable batteries, they collect about 10 percent of total batteries generated by the public, the rest being alkaline batteries. which have no stewardship program. However, RBRC submitted a plan to the provincial government of Ontario in July 2009 to also accept alkaline batteries and the plan is to do it in Canada first, and then the US.

#### Mercury Thermostats

Mercury thermostats use mercury switches to sense and control temperature. with each thermostat containing about three grams mercury. As such, if they are discarded as solid waste the mercury can be emitted to the environment. There are no collection options for thermostats outside of the public HHW facilities and events and the EPR program discussed below.

Extended Producer Responsibility –The Thermostat Recycling Corporation (TRC), funded by Honeywell, GE and White-Rogers, offers HVAC contractors, builders and homeowners a safe, easy way to properly dispose of thermostats. The program collects used thermostats free of charge through participating wholesalers. Shipping the containers to TRC is free and they return the container for unlimited subsequent uses.

#### **Progressive Container Rates**

Progressive container rates means that there is a distinction in the solid waste collection rates that encourage people to reduce waste disposal and increase recycling. All of the franchised haulers provided their collection rates and noted that the recycling and green waste collection services are provided at no additional cost to customers. Upon reviewing the service area rates, all areas have progressive rate structures.

established There is no recommended rate difference between container sizes. While the rates seem like they can be compared to other service areas in the County, each service provider offers variations of prevents services which egual comparison (e.g., curbside oil collection or not), limitations on recyclables and green waste collection, transportation and disposal costs depending on the end destination of the material, and the the franchise agreement structured (e.g., rates based on cost or have cushion to sustain variance in economic conditions).

Tables 19 and 20 below informational and present the highest and lowest rates charged by haulers. Stinson Beach has most of the lowest rates for flat areas and Mill Valley has most of the highest rates. For the hill areas, the Unincorporated Franchise Areas 1-6 have the lowest rates for the capacity containers smaller Christmas Tree Hill in Corte Madera has the highest rates.

		le 19 Areas	
Container Capacity (Gallons)	Lowest Rate/ Jurisdiction	Highest Rate/ Jurisdiction	Difference Between Rates
20	\$10.76/ Novato	\$26.86/ Mill Valley (unincorporated)	\$16.10
32	\$14.73/ Stinson Beach	\$29.52/ Mill Valley (unincorporated)	\$14.79
45	\$28.75/ Fairfax	\$43.04/ Mill Valley (unincorporated)	\$14.29
64	\$29.44/ Stinson Beach	\$48.88/ Larkspur	\$20.29
96	\$44.17/ Stinson Beach	\$75.43/ Shoreline and Gibson (unincorporated)	\$31.26

		le 20° Areas	
Container Capacity (Gallons)	Lowest Rate/ Jurisdiction	Highest Rate/ Jurisdiction	Difference Between Rates
20	\$21.48/ Unincorporated Franchise Areas 1-6	\$30.78/ Christmas Tree Hill (Corte Madera)	\$9.30
32	\$25.27/ Unincorporated Franchise Areas 1-6	\$34.74/ Belvedere	\$9.47
45	\$32.40/ Fairfax	\$51.15/ Christmas Tree Hill (Corte Madera)	\$18.75
64	\$48.71/ Tiburon	\$67.78/ Christmas Tree Hill (Corte Madera)	\$19.07
96	\$70.29/ Tiburon	\$102.39/ Christmas Tree Hill (Corte Madera)	\$32.10

As noted in the tables, there is a large contrast between rates charged. Although there may be interest in making the rates more encouraging of recycling, each jurisdiction will have to look at its rate structure to determine if diversion is maximized. Another consideration is that if the rate structure distinct between container capacities, customers may downsize their containers, but place garbage in the recycling containers. This problem was experienced in the City of San José.

## Consumption and Disposal Changes

Achieving Zero Waste requires that consumers change their purchasing and disposal habits in addition to more diversion programs being implemented. One method is to encourage people to GoodGuide.com use to make purchasing decisions based on ecological footprints and promote repair and reuse options in the County. Product bans is another method and is discussed below.

#### Product Sale and Disposal Bans

In late 2008, the JPA began exploring product sales bans which include, but are not limited to, plastic shopping bags and Styrofoam containers. These materials do no biodegrade and often end up in the ocean which poses hazards to aquatic life.

Unless all the jurisdictions in the County adopt the ordinance on consistent terms, bans could result in unintended economic impacts to the businesses that are required to provide the reusable or paper bags. If the JPA or its Member Agencies decide to postpone ordinances on banning materials, the JPA should increase public education and points of collection and could promote reusable bags and require hotels and restaurants to use biodegradable to-go containers.

#### Plastic Bags

While the JPA is currently investigating options, the Town of Fairfax had a ballot initiative Measure "C" on the November 4, 2008 election which bans plastic shopping bags from being distributed by

stores. The Town of Fairfax residents passed the measure which became effective on May 4, 2009.

The Town of Fairfax's ordinance requires all retail establishments, except dry cleaners, to provide bags that are either cloth reusable bags or paper bags. If a retailer is found to be distributing a plastic bag, the fines of \$100, \$200 and \$500 for subsequent violations. The ordinance that the Town has adopted will has a significant scope of influence because it affects all stores, and food venues (restaurants, vendors and retail food outlets).

#### Polystyrene (Styrofoam)<sup>6</sup>

An ordinance banning this material from being distributed at businesses is also an option of the JPA and its member Specifically, restaurants jurisdictions. are required to only provide take-out food in recyclable or biodegradable containers. As of the end of 2008, eight cities in the Bay Area have banned Styrofoam including San Francisco, Berkeley, Oakland and Emeryville. In addition, the beginning of 2009 has seen an increase in attention of banning this material at the statewide level by proposals from the California Oceanic Protection Council and public support from the Lt. Governor John Garamendi. In the past few years, cities throughout California have begun collecting Styrofoam, condensing it and selling it to recyclers. Multiple cities in California have collection site and retailers, such as Best Buy, are also accepting the material for recycling.

# VII. Findings and Recommendations

#### **Key Findings**

- JPA Resources. Currently, the JPA does not have the direction or staffing needed to effectively work on a countywide level and achieve the recommendations. Unless there is a strengthening of the JPA's role to assist Member Agencies in implementing the recommendations, it is unlikely that the Zero Waste Goal will be met, and the status quo will continue.
- Program Consistency. It will also be necessary for the JPA, Member Agencies, and haulers to implement programs and policies that are consistent countywide. The Member Agencies will need to adopt or revise ordinances, and modify their franchise agreements to establish the framework and standards for their waste reduction and diversion programs to meet the Zero Waste Goal.
- Economies of Scale. Some programs. such as ordinance enforcement and public education of programs, would be more efficiently and cost-effectively managed at the **JPA** countywide level independently by each Member Agency. In addition, many of the policy related programs can be better and cheaper if administered at a countywide level.
- A balance will have to be drawn for short-term and long-term programs and policies that address eliminating the creation of waste (up-stream, but long-term implementation) and the disposal and diversion of waste (down-stream, but short-term

<sup>&</sup>lt;sup>6</sup> BPI certification is need for material to be recycled.

implementation). Up-stream programs include public education efforts that promote reduced consumption. Extended Producer Responsibility (EPR) policies that promote product redesign hazardous materials, product bans, etc. Down-stream programs include increasing the types of materials collected by haulers (e.g., food). revising franchise agreements and ordinances to reflect industry standards and establish waste reduction and diversion requirements, implement food waste digestion and composting, etc.

- Diversion Facilities. Approximately 56 percent, or 128,000 tons of food, yard, organic waste, inerts, and mixed C&D, were disposed at landfill. In order to meet the Zero Waste Goal, reduction and processing of these targeted materials is critical. However, currently there is insufficient capacity for the facilities located within the County to process these materials and it may be necessary to transport these materials to out-of-county facilities.
- Public Education. Finally, and most importantly, for both Phase I and Phase II programs to be successful, public education must be strong and consistent among Member Agencies, and be continuous.

#### Recommendations

This section identifies recommendations for Marin County to achieve 80 percent diversion by 2012 and Zero Waste by 2025. This equates to diverting over 229,000 tons.

The recommendations were developed after evaluating the current conditions in the JPA as described and analyzed in Section VI.

Implementing these recommendations will maximize diversion of the currently disposed 229,271 tons of material. The recommendations presented below provides summary of the recommendation including, estimated diversion, steps to achieving recommendation. responsible parties and implementation cost. Appendix B provides additional detail about the recommendations relating to the following:

- Estimated one-time and ongoing cost;
- Potential funding sources;
- Projected additional JPA and Member Agency staff needed for program implementation;
- Advantages and disadvantages of recommendations;
- Facility infrastructure availability in the County; and
- Timeline for implementation.

The recommendations are divided into two phases. Phase I recommendations lay the foundation for Phase II. In some cases, aspects of Phase II may already be occurring in some capacity (e.g., food waste), but larger scale operations may need developing. Therefore, some Phase II recommendations can be implemented simultaneously with Phase I if programs are currently underway.

Estimated diversion of the most disposed materials are the following:

- Paper: 35,000 tons
- Food: 4,500 tons
- Organics (e.g., green waste, wood): 6,000 tons
- → C&D: 40,000 tons

While each material individually, may not seem to reach the Zero Waste goals, implementation of the recommendations will collectively reduce disposal by increasing diversion or preventing waste generation.

Diversion calculations are based on the assumption that an equal amount of material is eliminated from the disposal tonnage resulting in a no net change to overall generation.

Potential financial impacts are estimated based on industry knowledge, staff, and hauler time impacts. Haulers were contacted to identify potential costs and Marin Sanitary Service, Mill Valley Refuse, Redwood Empire Disposal/Novato Disposal, and Tamalpais Community Services District responded; Tamalpais was unable to estimate any costs.

#### PHASE I

The purpose of Phase I is to establish the foundation of roles and responsibilities to enable countywide coordination and leadership of programs that will attain Zero Waste.

To date, the JPA and Member Agencies limited interaction have had coordination when designing and implementing franchise programs, agreements, and ordinances. structure has enabled the JPA to meet the diversion and reporting requirements of AB 939, but greater coordination and potentially responsibilities will necessary to achieve the Zero Waste goals. Without countywide coordination and leadership, the Zero Waste goals will be difficult to achieve.

The recommendations for Phase I are categorized into actions that affect the JPA and Member Agencies. Some recommendations, such as ordinance enforcement and public education of programs would be more efficiently managed at the JPA countywide level than independently by each Member Agency.

#### **JPA**

Recommendations for the JPA focus on shifting the role of the organization to give it more authority in developing policies, countywide program implementation, and provide greater assistance to Member Agency staff.

### 1. Increase JPA Program Assistance with Other County Departments

The County Departments that manage the used oil block grant, sharps collection and sustainability teams are some County programs that operate separately from the JPA and do not consistently share information and aid program administration. Because integrated waste management involves materials targeted in such programs, it is important for the JPA to informed of collection results and be able to assist in outreach, etc. as needed to prevent waste generation and promote proper disposal of such material.

Estimated Diversion: Supports #4-18

Steps to Achieve:

- JPA meet with County departments to determine reporting frequency (e.g., monthly, quarterly).
- Determine the detail of information wanted (e.g., collection amounts, number of participating locations, compliance with ordinances (C&D, etc.)).
- Coordinate with County ways for the JPA to assist programs (e.g., outreach, enforcement).
- Update the County's Sustainability Team's website to more prominently present solid waste reduction and management on main page and interactive application to reflect Zero Waste goals.

Responsible Parties: JPA (coordinate with County departments)

Implementation Cost: \$40,000 (1/3 Full Time Equivalent Employee (FTE)). The level of assistance will determine if current JPA staff is sufficient or if additional staff is needed.

# 2. Increase JPA Staffing and Their Role in Assisting Administration of Member Agency and Countywide Programs

The Member Agencies currently do not have the resources to monitor all programs and implementation. There is opportunity for the JPA staff to assist the Member Agencies in roles as needed such as compliance with the C&D ordinance, monitoring hauler contracts, public education, etc. Having a greater assistance role will help insure that the programs are consistent and potentially lead to higher diversion and impact on waste reduction, and formal action from the Member Agencies is necessary for this to occur.

In addition, The JPA is beginning outreach for the unincorporated County while Member Agencies run their own program. Given the universal nature of this issue in the County, it is recommended that the JPA administer the education and outreach on behalf of the Member Agencies.

Estimated Diversion: Supports #4-18

Steps to Achieve: JPA meet with Member Agencies to determine how much assistance they would like the JPA to provide and get formal approval from the Member Agencies.

Responsible Parties: JPA and each Member Agency.

Implementation Cost: \$120,000 (1 FTE). The level of assistance will determine if current JPA staff is sufficient or if additional staff is needed. \$200,000 has already been funded for Phase II.

### 3. Increase the Frequency of Board of Directors Meetings

Increasing the number of meetings held will enable the Board of Directors and Member Agencies to be more involved in addressing waste issues and provide the JPA with more constant contact with the administrators of policies throughout the County. The increased meetings would be tied to defining the goals of the JPA and any associated staff and time needs. The increased communication could lead to improved partnership with Member Agencies and more effective implementation of programs. The Board of Directors may wish to consider developing a subcommittee to address the goals of this recommendation.

Estimated Diversion: Supports #4-18

Steps to Achieve: Increase meeting schedule

Responsible Parties: JPA and Board of Directors

Implementation Cost: \$0. No change to current staff levels.

## 4. Help Solid Waste and Non-Solid Waste Facilities with Siting/ Permitting Processes

The lack of the necessary infrastructure is the biggest constraint for the County to achieve high diversion programs that include green waste, food waste, and construction and demolition materials. Facilities should include retail-focused businesses that promote reuse that do not require processing of materials. The JPA should continue to play an active role in helping site new facilities that provide diversion and reuse opportunities to the region. These facilities will also help create "green jobs" in the County.

Estimated Diversion: 92,000+ tons per year if facilities become operational in County and in conjunction with C&D and salvage ordinances. Also supports #18.

#### Steps to Achieve:

- Work with the County and City Planning Departments to site and permit the appropriate facilities.
- Work with companies or individuals that offer services that could benefit the reduction of the County's waste stream.
- Assist companies/ individuals through the siting and permit process as possible.

Responsible Parties: JPA

Implementation Cost: \$120,000 (1 FTE). The level of assistance will determine if current JPA staff is sufficient or if additional staff is needed.

#### 5. Support Extended Producer Responsibility (EPR) and Waste Reduction Policies at State and National Level

The JPA has been active in issuing letters of support for legislation that helps eliminate materials from the waste stream. The JPA should continue this activity and also support any national legislation that might positively affect the County's Zero Waste goals.

In addition, individual Member Agencies should support these efforts as well through Extended Producer Responsibility resolutions and letter campaigns.

Estimated Diversion: Supports #10 and 11

#### Steps to Achieve:

 Issue letters of support for state or national legislation that promotes waste reduction.

Responsible Parties: JPA, Member Agencies

Implementation Cost: \$120,000 (1 FTE).

#### Member Agencies

#### 6. Revise Solid Waste Ordinances

The solid waste industry and regulations have changed considerably since 1990. However, the ordinances that regulate the hauler franchise agreements in some cases have not been updated for 45 years. Extensive revisions will likely be necessary for the ordinances.

Estimated Diversion: Supports #7, 9, &18

#### Steps to Achieve:

- All Member Agencies review their solid waste ordinance.
- Update ordinances to reflect current solid waste practices.

Responsible Parties: Member Agencies
Implementation Cost: \$5,000-\$10,000
each Member Agency

### 7. Revise Franchise Agreement Language

Franchise Agreements can be designed to encourage "green" operations and encourage maximum diversion. Most of the franchise agreements are lacking provisions that address collection hours, type of fuel vehicles use, explicit definitions of recyclable materials, etc. Below is a list of elements that should be included in franchise agreements to obtain maximum diversion and minimal environmental impact. Becoming more "green" could result in less disposal, lower customer rates, and more profit for haulers.

- Specific diversion requirements
  - Based on actual tons collected by hauler.
- Overall tonnage collected
  - By service area/type (e.g., residential, commercial, bulky item, special event, etc.).

- Financial incentives for the customer
  - Bundled service rates
- Cost for recycling, green waste, food waste and bulky waste are included in the basic garbage bill
  - Variable rates
- Based on the amount of garbage generated
- Provide unlimited/free recyclables and green/organic waste collection
- Financial incentives for the hauler
  - Rate increases for exceeding diversion requirements
  - Term extension for meeting/exceeding diversion requirements
  - Allow hauler to keep revenue for recyclable materials sales
  - Set a disposal tonnage cap (limit the tonnage that can be landfilled; or charge a penalty if more that the tonnage limit is landfilled)
  - Liquidated damages for not meeting diversion requirements or other service standards
  - Require program expansion for not meeting diversion requirements
- Air quality
  - Require specific fuel and fuel management requirements
- CNG/LNG
- Bio-diesel
- Idle shut-off
- Idle speed packing
- Hybrid electric support trucks
  - Reduce collection vehicle traffic
- Frequency of collection
- Efficient routing

- Co-collection (use split-body trucks)
- Wet/dry collection
- Mixed waste collection
  - Include all collection sectors
- Single family dwelling residential
- Multi-family dwelling residential
- Commercial
- Construction and demolition (if part of agreement)
- Public facilities (if part of agreement)
  - Collection Days and Hours
- Residential versus commercial service days and time restrictions
- Alternative hours for commercial properties near residential units
  - Material definitions
- Identify specific materials that can be collected through residential, multi-family, commercial, bulky item and special event service

In addition to these provisions, the Member Agencies may want to consider making the rate structure more stable for both the haulers and customers by using an indexed calculation to determine rate adjustments.

Estimated Diversion: Supports #8, 9, 12, 13, 14, 15, & 16

#### Steps to Achieve:

- Meet with hauler to determine options of revising the current contract.
- Possibly issue a Request for Proposals two years before the contract expires.
  - Identify in the RFP the service types and requirements desired by the hauler

 Bids submitted by haulers will reflect the level of services and requirements desired.

Responsible Parties: Member Agencies

Implementation Cost: \$25,000-\$75,000 each Member Agency

## 8. Adopt, Enforce, and Homogenize the Construction and Demolition Ordinance

The diversion of construction and demolition materials will not occur unless all Member Agencies adopt and enforce C&D ordinances. While five jurisdictions have adopted the ordinance, none have maintained the same provisions as the JPA's model C&D ordinance which does not help the haulers easily comply.

It is recommended that the JPA administer the program on behalf of the Member Agencies to maximize efficiencies.

Estimated Diversion: 22,900+ tons per year and supports #18

#### Steps to Achieve:

- These seven Member Agencies should adopt the C&D ordinance.
  - Belvedere
  - Corte Madera
  - Fairfax
  - Larkspur
  - Ross
  - San Anselmo
  - San Rafael
- Ordinances should be consistent throughout the County. The ordinance should require that no C&D material is landfilled, except residue from processing.
- Enforce the ordinance (recommend the City of Los Angeles system).

- Lower the project threshold to 500 sq. ft.
- JPA should verify compliance (review paperwork, etc.).
- Consider an ordinance administration fee that is rebated if diversion facilities are used (e.g., City of Los Angeles system).
- Educate haulers of C&D recycling facilities.

Responsible Parties: Member Agencies for adoption/modification of ordinance, enforcement and educating haulers. JPA might be able to assist in determining ordinance compliance. JPA should work with Member Agencies to have consistent ordinances.

Implementation Cost: \$5,000-\$10,000 each Member Agency. Ongoing: \$5,000 for each Member Agency or \$60,000 for the region.

#### 9. Adopt and Enforce Multi-Family Dwelling and Business Recycling Ordinance

This ordinance will be required to be adopted by 2012 as a result of AB 32. The JPA should consider implementing a countywide ordinance to require recycling of all recyclable materials generated at businesses and multifamily dwellings similar to Sacramento County. With residential customers currently with full diversion options, Multi-family dwellings and businesses are the next sectors that can achieve high diversion.

Estimated Diversion: ~29,700 tons

#### Steps to Achieve:

- Meet with associations and business chambers to inform them of changes.
- Meet with Member Agencies to determine how the ordinance will be enforced (e.g., local staff, JPA,

County Environmental Management Department).

- Train enforcement staff.
- Haulers provide account information for database creation (enforcement agency will maintain database).
- Submit reports to JPA to keep informed.

Responsible Parties: JPA, Member Agencies, and haulers. Enforcement entity to be determined by the parties.

Implementation Cost: \$5,000-\$10,000 each Member Agency. Ongoing: \$5,000 for each Member Agency or \$60,000 for the region.

## 10. Encourage Consumption and Disposal Changes

Promoting reduced consumption by making better choices when shopping is a necessary element to ultimately eliminate waste generation. **Efforts** should be made to increase customer awareness of online and local resources that encourage material exchange, repair and reuse. All sectors should be targeted to maximize awareness of opportunities. Public education on better consumption habits is a crucial element of this recommendation. Programs such as Alameda County Waste Management Authority's Business Partnership Program should be considered.

Estimated Diversion: 2.300 tons

#### Steps to Achieve:

- JPA work with the public and environmental groups to identify campaigns.
  - Choose a few topics a year to promote and educate the public on (e.g., reusable bags, purchase in bulk, encourage reuse through thrift stores and garage sales).

- Develop education campaigns with haulers and Member Agencies.
  - Advertise businesses that encourage reusable bags, mugs, etc. and identify how it is encouraged (e.g., discount, donation to charity).
  - Promote GoodGuide.com and MarinMax.org through haulers and Member Agencies.
  - Haulers include information in their newsletters.
- Attend community events to promote the consumption changes and perhaps distribute reusable items.

#### Responsible Parties:

- JPA to coordinate the identification of campaign topics with public input.
- Member Agencies to work with haulers to include information in outreach materials; and
- All parties to share in promoting the campaign to the public.

Implementation Cost: \$5,000-\$10,000 each Member Agency. Ongoing: \$5,000 for each Member Agency or \$60,000 for the region.

#### PHASE II

This phase is when programs are developed and implemented. The recommendations consist of policies, haulers changing/restructuring services, and enhancing current programs.

#### JPA

### 11. Promote Countywide Sale and/or Disposal Bans

Undertaking product sale and/or disposal bans are most effective when all Member Agencies simultaneously adopt them rather than each jurisdiction implementing different bans.

Estimated Diversion: 1,100 tons

#### Steps to Achieve:

- JPA use Local Task Force, Executive Committee and Board of Directors meetings to determine what bans are needed.
  - Advertise meetings to public to solicit feedback
- JPA to develop model ordinance language.
  - Language should be consistent with previously adopted ordinances (e.g., Town of Fairfax plastic bag ban).
- JPA to attend council meetings as needed to speak on the ban.
- JPA and Member Agencies educate public and businesses.
- Member Agencies to enforce the bans.

Responsible Parties: JPA, JPA Executive Committee and Board of Directors and Member Agencies.

Implementation Cost: \$50,000 for public education. Ongoing: \$30,000.

#### Haulers (via Member Agencies)

### 12. Implement Wet/Dry Collection Routes

A way to potentially increase recovery of material from commercial businesses is to re-route trucks to collect similar types of material (selective routing). For example, one truck should service locations that generate mostly paper goods (dry goods) and other service businesses that generate mostly food waste (wet goods). By designing such routes, contamination of loads is minimized and more materials can potentially be diverted.

Estimated Diversion: ~102,000 tons per year

#### Steps to Achieve:

- Review current routes and material types generated.
- Restructure routes if necessary.
- Educate customers on any changes to how they dispose of material.
- Deliver material to facilities that can divert them (e.g., food waste/organics).

Responsible Parties: Haulers

Implementation Cost: Franchise agreement revision; 2%-10% rate increase.

## 13. Offer Residential Unlimited Services of Recycling and Green Waste Containers

These programs are dependent on services offered by the haulers. While some haulers provide unlimited recycling and green waste service, there is an opportunity to improve collection because not all haulers provide a sufficient number of containers to all residents or charge a fee for extra containers.

In the MSS service areas, only one recycling cart is provided and unlimited green waste collection is available. Although residents can provide their own containers for recycling, the reduced convenience of having only one cart provided can minimize willingness to recycle material that exceeds the capacity of the cart.

Novato Disposal and Redwood Empire Disposal each provides up to 2, 95 gallon carts each for recyclables and green wastes. This capacity may be enough, but the option for an extra container may increase diversion during the fall or other high debris landscape seasons.

Mill Valley Refuse customers in the Homestead area have the option to

decline green waste service because they compost in their backyard. It is unclear how much green waste is being disposed by Homestead residents, but regardless, those with services are limited to 68 gallons and are charged \$3 for each extra can. This smaller container size and fee for extra service is a disincentive to diverting green waste material. As an alternative, Mill Valley Refuse could consider providing weekly collection during periods of greater generation (e.g., autumn)

Estimated Diversion: 7,300+ tons per year in combination with other programs

#### Steps to Achieve:

- Haulers should provide option of extra free containers for recyclables and green waste.
- Jurisdictions could require hauler to provide unlimited collection of green waste.
- Mill Valley Refuse should consider increasing green waste collection to at least 96 gallons and eliminating the extra container charge.

Responsible Parties: Haulers

Implementation Cost: Franchise agreement revision; 1%-3% rate increase.

#### 14. Add Materials Collected to Recycling Stream

All recyclables should be collected by haulers if there is a market for them. While the economy is slow, this may not be possible, but increasing collected materials, even if not generating profit, should be considered as a way to reduce disposal.

Estimated Diversion: ~2,300 tons per year

#### Steps to Achieve:

 Meet with associations and business chambers to inform them of changes.

- Meet with Member Agencies to determine how the ordinance will be enforced (e.g., local staff, JPA, County Environmental Management Department).
- Train enforcement staff (hire new staff if needed).
- Haulers provide account information for database creation (enforcement agency will maintain database).
- Submit reports to JPA to keep informed.

Responsible Parties: Haulers

Implementation Cost: Franchise agreement revision; 1%-3% rate increase.

## 15. Add Food Waste Diversion to Collection Services (Residential and Commercial)

After green waste, food waste collection and composting is the big next step to reducing waste disposal. As with green waste, the availability of processing facilities is the limiting factor, but digestion and composting facilities are beginning to be established in Marin County (e.g., Redwood Landfill, MSS energy projects, Pacific Biogas Energy).

Estimated Diversion: 4,500+ tons per year and supports #12 & 16

#### Steps to Achieve:

- Haulers and Member Agencies amend franchise agreements.
- Haulers identify facilities and determine ability to deliver material to it.
  - Determine if transfer facilities are needed for long-haul delivery.
- Haulers build into the contract compost give-aways.
- Haulers provide customers backyard compost bins, kitchen pails, and education materials.

Responsible Parties: Haulers for program implementation and education.

Implementation Cost: Franchise agreement revision; 1%-5% rate increase.

#### 16. Implement Food Waste Digestion

Marin Sanitary Service is undertaking food waste digestion with the CMSA. The CMSA only services a portion of the County and other sanitation districts serving the region should also explore combining food waste with current digestion operations.

Estimated Diversion: N/A; 4,500+ tons per year in conjunction with the food waste diversion (Recommendation 16).

#### Steps to Achieve:

- Haulers and sanitation districts develop pilot programs and determine facility needs.
- Develop or arrange infrastructure needs to make food waste suitable for digestion.
- Haulers and sanitation districts develop agreements for material.

Responsible Parties: Haulers and sanitation districts.

Implementation Cost: Franchise agreement revision; 2%-10% rate increase.

#### 17. Promote Backyard Composting

Getting residents engaged will help promote sustainability and waste awareness. In addition, developing a community garden where residents can bring food waste should be explored.

Estimated Diversion: 4,500+ tons per year in combination with other food waste programs (#15)

#### Steps to Achieve:

 Haulers and Member Agencies amend franchise agreements.  Haulers provide customers backyard compost bins, kitchen pails, and education materials.

Responsible Parties: Haulers for program implementation and education.

Implementation Cost: \$5,000-\$10,000 each Member Agency. Ongoing: \$5,000 for each Member Agency or \$60,000 for the region.

#### Member Agencies

## 18. Require Deconstruction/ Salvage/Resale of Construction and Demolition Materials

materials Salvaging prior to deconstruction will allow materials to be reused and be diverted from the landfill. This practice has already begun in parts of the County, but support from Member Agencies in the form of ordinances and keep useful promotion will help materials from being unnecessarily disposed.

The JPA can administer the program to promote efficiencies rather than implementation individually by Member Agencies.

Estimated Diversion: ~11,500 in conjunction with C&D ordinance and resale facilities. Supports #8.

#### Steps to Achieve:

- Each Member Agency adopt a deconstruction and salvage ordinance.
- Require salvage be conducted before demolition.
- Educate contractors on the requirements through trade groups and permits.
- Include deconstruction and salvage companies more prominently in the County's Public Works Builders Guide and increase the prominence

- of the guide through community outreach.
- Educate residents of facilities that have salvaged materials or perform deconstruction (e.g., non-profits, Marin-Sonoma Deconstruction and Demolition).

Responsible Parties: Member Agencies adopt and enforce ordinance, Public Works department to modify the Builder's Guide, and the JPA might be able to assist with outreach and public education.

Implementation Cost: \$5,000-\$10,000 each Member Agency for public education. Ongoing: \$5,000 for each Member Agency or \$60,000 for the region.

# VIII. Costs and Funding Options

## Estimated Solid Waste System Cost

The Marin County solid waste collection system is complex and involves multiple entities that extend beyond the haulers identified in this study. To determine the cost to run the current system as a basis for incremental cost is difficult to determine. As noted previously, haulers accounted for diverting 30 percent of the diversion tonnage identified in 2006 (129,400 tons. out of 432,600 tons diverted countywide) and collecting 31 percent of the reported total AB 939 reported (193,700 tons out of 620,400 tons) generation. Identifying the cost of the waste management system, would therefore include the gathering of data from the companies and facilities handling the other 70 percent of material which includes regulated and nonregulated entities. The range of entities to acquire costs from include:

Table 21	
Estimated Countywide 0	osts .
Total Waste Generation (2006)	620,400
Total Franchised Tonnage (2006)	193,700
Percent Franchised Tonnage	31%
Franchised Hauler Cost	\$54,700,000
Per Capita Cost	\$213
Total Per Capita Cost	\$687
County Wide Population (2008)	256,500
Estimated County Wide Cost	\$176,215,500

- Franchised and municipal residential and commercial haulers;
- Permitted debris box haulers;
- Non-franchised/permitted recycling companies collecting source separated materials, such a glass recyclers, rendering companies, paper recyclers, etc.;
- Facilities regulated or not regulated such as transfer stations; landfills; C&D processing facilities (in county and out of county); reuse/ donation stores, such as Goodwill; store backhaul and take-back operations, etc.;
- Buy-back and drop off centers; and
- State and federal operations, such as Fire Safe Marin and CalTrans.

With the above limitations notes, a general estimated cost for the current

solid waste management system is approximately \$176,200,000/ year.

This estimate is based on applying the estimated average per capita cost for hauler provided services of \$213/year, to the tonnage collected by the haulers as a percentage of total countywide waste generation.

Developing a more specific and detailed cost estimate for the current system would entail conducted a detailed economic study.

The cost estimates to implement the recommendations in Section IIV are as follows:

		Table 22 Estimated Co	SIS PERSON		
Responsible Party		Recommendation	Estimated One-Time Cost	Estimated Ongoing Cost	Potential Funding Source
Pinasell					
JPA	1	Increase JPA Program Assistance with other County Departments (e.g., used oil programs, sharps)	N/A	\$40,000+ Materials and staffing	AB 939 Fee
	2	Increase JPA's Staff and Role in Assisting Administration of Member Agency and Countywide Programs. Could support #6-10 below.	\$200,000 (Fund Phase II)	\$120,000+ Materials and staffing	AB 939 Fee
	3	Increase Board of Directors Meeting Frequency	N/A	N/A	AB 939 Fee
	4	Help Facilities with Siting and Permitting:  a) Solid Waste and b) Non-Solid Waste  JPA materials and staffing	N/A	\$120,000 Materials and staffing	AB 939 Fee
	5	Support EPR and Waste Reduction Policies at State and National Level Public education	N/A	\$120,000 Materials and staffing	AB 939 Fee
		Phase I JPA Subtotal	\$200,000	\$400,000	
Member Agencies (MA)	6	Revise Solid Waste Ordinances Could be done as part of #2 above.	\$5,000- \$10,000 each MA	N/A	Franchise Fee, General Fund
	7	Revise Franchise Agreement Language. Could be done as part of #2 above.	\$25,000- \$75,000 each MA	N/A	Franchise Fee, General Fund
	8	Adopt, Enforce, and Homogenize the Construction and Demolition Ordinance. Could be done as part of #2 above.	\$5,000- \$10,000 each MA	\$5,000 each MA or \$60,000 for region	Franchise Fee, General Fund, Disposal Fee

		Table 22 L Estimated Co	SIS		
Responsible Party		Recommendation	Estimated One-Time Cost	Estimated Ongoing Cost	Potential Funding Source
	9	Adopt and Enforce Multi- Family Dwelling and Business Recycling Ordinance. Could be done as part of #2 above.	\$5,000- \$10,000 each MA	\$5,000 each MA or \$60,000 for region	Franchise Fee, General Fund, AB 939 Fee
	10	Encourage Consumption and Disposal Changes. Public education. Could be done as part of #2 above.	\$5,000- \$10,000 each MA	\$5,000 each MA or \$60,000 for region	Franchise Fee, General Fund, AB 939 Fee
	Phase	e I Member Agencies Subtotal	\$45,000- \$115,000 each MA	\$150,000 each MA- \$180,000 for region	
Phase II					
JPA	11	Promote Countywide Sale and/or Disposal Bans	\$50,000+ for public education	\$30,000+	AB 939 Fee
		Phase II JPA Subtotal	\$50,000+	\$30,000+	
Haulers (via Member Agencies)	12	Implement Wet/Dry Collection Routes	Franchise Agreement Revision	2%-10% rate increase	Customer Rates
	13	Offer Residential Unlimited Services of Recycling and Green Waste Containers	Franchise Agreement Revision	1%-3% rate increase	Customer Rates
	14	Add Materials Collected to the Recycling Stream	Franchise Agreement Revision	1%-3% rate increase	Customer Rates
	15	Add Food Waste Diversion to Collection Services (Residential and Commercial)	Franchise Agreement Revision	1%-5% rate increase	Customer Rates
	16	Implement Food Waste Digestion	Franchise Agreement Revision	2%-10% rate increase	Customer Rates
	17	Promote Backyard Composting	\$5,000- \$10,000 each MA	\$5,000 each MA or \$60,000 for region	Customer Rates

		Table 22 Estimated Co	sts.	eggina endande en de la companya de La companya de la companya de	
Responsible Party		Recommendation	Estimated One-Time Cost	Estimated Ongoing Cost	Potential Funding Source
		Phase II Hauler Subtotal	\$5,000- \$10,000 each MA	\$5,000 each MA or \$60,000 for region	
Member Agencies	18	Require Deconstruction/ Salvage/ Resale of Construction and Demolition Materials	\$5,000- \$10,000 each MA for public education	\$5,000 each MA or \$60,000 for region	C&D deposit system or fee
	Phase	II Member Agencies Subtotal	\$5,000- \$10,000 each MA	\$5,000 each MA or \$60,000 for region	
		Total	\$910,000- \$1,870,000 for the region	\$730,000+ for the region and 7%-31% rate increase	

As shown above, the one-time costs for implementing the recommendations is estimated to range from at \$910,000 – \$1,870,000. This represents less than 1 percent of the total countywide costs. On an ongoing basis, using the estimated hauler costs of \$54.7 million (\$213.25 per capita) and the estimated rate increases ranging between 7 – 31 percent, the hauler costs would increase to \$58.5 – \$71.7 million. This represents a total estimated hauler cost increase of between 2.2 and 9.7 percent.

Analysis of the recommendations on a cost per ton basis shows that the following recommendations cost the least to implement for diversion or waste reduction achieved: 11, 10, 17, 18 and 8. Details are provided in Appendix B, Table 2.

Because the JPA is funded through AB 939 fees (from disposal tip fees) that are incorporated into current customer rates, unless the JPA's budget is increased, there is no additional cost impact. However, if the JPA's budget is increased to pay for recommended programs to be supported by the JPA approximately (estimated to be \$730,000/year) the current JPA AB 939 fee will need to be increased, with this cost passed on to users of Redwood Landfill through higher tip fees. Likewise, the Member Agencies may opt recommendations through fund increased franchise fees or AB 939 fees, with the cost to be paid for by customers through the franchised hauler rates. The following section describes various methods that can be used to implementing pay for recommendations.

#### **Funding Options**

As noted in Section VII, implementing the recommendations will require one or more methods to pay for expanded or new programs. As shown in Table 21 below, there is a variety of ways to collect money to fund the programs and policies, but the main funding source remains the same: customer rates.

Under the category of customer rates, are AB 939 fees which the JPA currently uses and Member Agencies can also include in their franchise agreements.

In addition to the AB 939 fees that are charged by the JPA, each Member Agency has the authority to implement or adjust funding mechanisms. These funding mechanisms include the following:

- Vehicle impact fee. This fee is based on the wear-and-tear the collection vehicles make on roadways. It can be a flat fee every contract year or one-time.
- Franchise fee. This fee is charged by the Member Agency and is used to fund programs and staff.
- General fund. This is the main fund source for Member Agency programs and staff.
- Facility host fee. This fee can be charged to solid waste facilities that are located within Member Agency boundaries. The amount can be determined by the jurisdiction. Developer fee. This fee can cover partial or all costs associated with providing new trucks and carts to new developments rather than sharing the costs over all customers.
- Ballot initiative fee/tax. The County or Member Agencies can propose a fee or tax related to solid waste that would be used to support the implementation of programs and

- policies. An example would be Measure D that was passed in Alameda County.
- EPR policy/fee. This fee could be charged to products that an EPR solution is desired and would pay for the proper handling and disposal of materials. An example of this on the statewide level is Electronic Waste Recycling Act of 2003 (SB 20).

With each of these funding mechanisms, the Member Agencies have the opportunity to use the money to support programs and policies to support the Zero Waste goal.

It should be noted that any fee structure based on tons disposed will need to be changed because as tons disposed decrease the per ton fee would need to increase significantly to generate the same amount of revenue. Ultimately, in a Zero Waste system, paying for programs on a disposal fee basis is not sustainable. Other communities that fund programs on disposal fees are actively exploring other funding options that may prove to be more sustainable disposal tonnage as decreases. Specifically, Sonoma County is looking

at establishing AB 939 fees more on a total generation basis by assigning a flat fee based on historical tons disposed to be paid by franchised haulers, adding new fees on diversion facilities (MRFs, C&D facilities, organic processing), and in increasing disposal fees on self-haulers.

	,	
	Table 23	
Fund	ling Options	
	Has Auth	ority to Implement
	JPA	Member Agencies
Customer rates		✓
AB 939 fees	✓	<b>✓</b>
Vehicle impact fees	·	1
Franchise fees		<b>√</b>
General fund		✓
Facility host fees		<b>✓</b>
Developer fee		<b>✓</b>
Ballot initiative fee/tax		✓ .
EPR policy/fee		<b>V</b>

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## Appendix A

Northern California Solid Waste Management Authorities

Page 1 of 3

		Marin Hazardous and Western Placer Sonoma County. Solid Waste JPA County Waste Waste Nariagement Management Item Authority Agency	get. \$1.7 Million \$25 - \$30 Million N	Source of Tipping Fees and Tipping Fees Revenue Tipping Fees	Agency Staff Program Manager and Assigned from Assigned from County Solid Waste Staff (5) Department (7) Department (5) Department (7) Department (5)	Staff Employer Contracted from County Waste Contracted from Authority County	Publicity Owned 1 – Landfill Facilities None None 4 – Transfer Stations	Issue Revenue No Yes No Bonds	Facilities Owned None 1 - Landfill	by Waste 1 – MRF Authority None 1 – HHW Facility None		Public & Agency None Contracted By County and Owned Private operators Facility	Privately Owned None None MRF's Facilities	Facility Designation No Yes No (Flow Control)	Rate No; Approved by Review & Setting/Approval Member Agencies Accommend Rates, No
Solf		Salinas Valley F. Solid Waste Authority	\$21 Million	Tipping Fees	Director and Staff Di (22)	Waste Authority	None	Yes	3 - Landfills 1 -	3 – Transfer 2 – Stations Str	1-HHW 1-	Contracted We	Transfer Station, 1- MRF & 1- Composting	Yes	Yes
Appendix:A Northern California d Waste Management At	Name of Authority	Humboldt Waste Management Authority	\$10 Million	Tipping Fees	Director and Staff (27)	Waste Authority	None	Yes	1-Landfill	2 – Transfer Stations	1 - HHW 1 - Composting	Waste Authority staff	1 - MRF 1 - C&D	Yes	Yes
Appendix A. Northem California Solid Waste Management Authorities	uthority	Del Norte Solid Waste Management	\$2.5 Million	Franchise Fees	Director and Staff (8)	Waste Authority	None .	Yes	1 - Transfer Station	1 – HHW Facility		Waste Authority staff	1- MRF	Yes	Yes
v		Monterey Regional Waste Management	\$16 Million	Tipping Fees	General Manager and Staff (over 100)	Waste	None	Yes	1 - Landfill	1 - MRF	1 - Composting	Operated by Waste Authority staff	2 - Transfer Station, 1 - MRF & 1 - Composting	Yes	Yes
		Central Contra Costa Solid Waste Authority	\$2 - \$3 Million	Franchise Fees &	Director and Staff (4)	Waste Authority	None	Yes	1 – Buv Back &	Drop off Center	Drop off 1 HHW Facility	Private	2 - Landfills 5 - Transfer Stations/MRF 2 - Composting	Yes	Yes
		South Bayside Waste Management Authority	\$35 Million	Tipping Fees	Director and Staff (6)	Waste	None	Yes	1 – Transfer Station	1-MRF	(all on same site)	Contracted	1 – Landfill	Yes	Review & Recommend Rates,
		West Contra Costa Solid Waste Authority	\$14 Million	Tipping Fees	Director and Staff (6)	Waste Authority	None	Yes	1 - 1 andfill	(pesolo)		Contracted	2 - Transfer Stations 1 - MRF 1 - HHW Facility 1 - Composting	Yes Yes	Yes

<sup>1</sup> These include dedicated sources of revenue. Revenue received through various grant programs is not listed, however most JPA's receive some funding through grants.

				ŏ	Appendix A Northern California Solid Waste Management Authorities	<u>lix A</u> alifornia ment Authorities				
					Name of Authority	uthority			F	
E at	Marin Hazardous and Solid Waste JPA	Western Placer County Waste Management Authority	Sonoma County Waste Management Agency	Salinas Valley Solid Waste Authority	Humboldt Waste Management Authority	Del Norte Solid Vaste Management Authority	Monterey Regional Waste Management Authority	Central Contra Costa Solid Waste Authority	South Bayside Waste Management Authority	West Contra Costa Solid Waste Authority
Rates for Member Agencies	Vary based on service requirements of member agencies	Same	Vary based on service requirements of member agencies	Equalized		Same	Ѕате	Same	Vary based on service requirements of member agencies	Same
Closure & Post Closure Monitoring & Maintenance	ON	Yes	County	Yes	Yes	Yes	Yes	Yes	NO N	Yes
Solid Waste Planning	Yes	Yes	Yes	Yes	O Z	Yes	Yes	Yes	Yes	Yes
Public Education & Outreach	Some; most done by Member Agency haulers	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Enter into Collection Franchise Agreements	ON.	Yes	o N	ON.	No	No	NO	Yes	Negotiate – Approved by member agencies	o Z
Enter into Facility Operating Agreements	ON.	Yes	ON.	Yes	Operated by Authority	Yes	Operated by Authority	Yes	Yes	Yes
Enter into Disposal Agreements	No	Yes	No	Yes	Yes	Yes	Operated by Authority	Yes	Yes	Yes
Enter into Processing Agreements	No	Yes	ON	No	ON	Yes	Operated by Authority	Yes	Yes	Yes
Permanent HHW Facility in region	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
HHW Program Management	Yes	Yes	Yes	Yes	Operated by Authority	Yes	Operated by Authority	Yes	Yes	Yes
Enter into HHW Operating Agreements	Yes	Yes	Yes	Yes	Operated by Authority	Yes	Operated by Authority	Yes	Yes	Yes

# Appendix B

Summary of Recommendations

Party Hem
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								Appendix B	X B			
							Table 1:	Summary of F	Table 1: Summary of Recommendations	<b>1</b>		
Responsible Party	Item	Recommendation	Estimated One-Time Cost	Estimated Ongoing Cost	Potential Funding Source	JPA or Member Agency (MA) Staff Required	Disposal Reduction Percent	Disposal Reduction Tons	Advantages	Disadvantages	racinty Infrastructure Exists in County?	Time Needed for Implementation
JPA	11 .	Promote Countywide Sale and/or Disposal Bans	\$50,000 + for public education	\$30,000+	AB 939 Fee	1/4 FTE	0.50%	1,100	Encourages recyclable products to be sold and therefore remove disposable items from the waste stream.	passed. Vember nances. ersight.	N/A	Immediately; ongoing process
		Phase II JPA Subtotal \$50,000+	\$50,000+	\$30,000+								
Haulers (via Member Agencies)	12.	y.c s	Franchise Agreement Revision	2%-10% rate increase	Customer Rates	N/A.	44%	102,000	Based on re-rouling of trucks rather than maw equipment purchases. Enables homogenous, high grade recyclable materials to be collected with little confamiliation as compared to non-welfdry outles.	Time and effort in developing new route and retraining drivers.	N/A	Approximately six months-1 year. Will require rerouting of trucks and potentially changing collection days.
	13	Offer Residential Unlimited Services of Recycling and Green Waste Containers	Franchise Agreement Revision	1%-3% rate increase	Customer Rates	N/A	. 1%	7,300	ervice could have people that dispose in waste rather than pay for an extra ler.	Haulers may have more containers to service and may lose current vevenue.	Yes.	Up to 1 year; franchise agreement would need to be amended.
ener i	4	d to	Franchise Agreement Revision	1%-3% rate increase	Customer Rates	N/A	1%	.*	2,300 Increased diversion of currently disposed materials.	Recycling markets will be needed to effectively divert material and braininize potential rate increases due to larger material stream.	Yes, for sorting, but recycling markets need to exist.	One year to get program underway (determine facilities to accept the material for diversion, public education, etc.)
	15	Add Food Waste Diversion to Collection Services (Residential and Commercial)	Franchise Agreement Revision	1%-5% rate increase	Customer Rates	N/A	2%		4,500 and Food waste is the next material in the supports residential stream that can result in #12 & 16 significant diversion.	Lack of facilities exist locally to process the material. Transport and tip fees may result in a rate n increase.	Not locally. Material would need to be transferred.	Two to five years to identify potential facilities and amend franchise agreements.
	. 16	Implement Food Waste Digestion	Franchise Agreement Revision	2%-10% rate increase	Customer Rates	NIA	N/A; tonnage accounted for with collecting food waste	NIA	Method of diversion that can provide energy benefits and reduce carbon emissions.	Does not increase diversion. Need bitacilities to process material.	re is loped s	Between 1-5 years. There are a variety of pict to ranal scale projects planned/underway, Infrastructure to handle material for the whole region would need to be developed, permitted and built.
	. 17	Promote Backyard Composting	\$5,000- \$10,000 each MA	\$5,000 each MA or \$60,000 for region	Customer Rates	N/A	N/A; tonnage accounted for with collecting food waste	4,500 as part of food waster diversion(#15)	4,500 as part Direct benefit for the homeowner to divert of food waste material. May help promote everall viewersion(#15) improvements in waste generation.	Education programs and workshops are needed to begin in and sustain efforts.		Two to five years to develop programs and actively promote it.
:		55,000- Phase II Hauler Subtotal \$10,000 each MA		\$5,000 each MA or \$60,000 for region								
Member Agenaies	8	Require Deconstruction/ Salvager Resale of Construction and Demotition Materials	\$5,000- \$10,000 each MA for public education	\$5,000 each MA or \$60,000 for region	C&D deposit system or fee	N/A	5% in conjunction with C&D ordinance and resale facilities	11,500 and i supports #8 {	Opportunity to create "green jobs" and divert I 1500 and leusable material from disposal. Materialis supports #8 generally heavy and can have a significant of impact on disposal tonnage.	Assistance is needed to educate to nomeowners of possibilities. Will. of the conduct outreach and provide incentives for phase types of enterprises to come dute the County (ReStore, etc.)	Small operations exist. More operations are ineeded to promote deconstruction and create "green jobs".	Two to five years to identify potential deconstruction groups and solicit interest and barriers to operating in County. Allows time to identify non-profils, and if needed, help with the siting of non-processing facilities (resale only).
	Phase II	S5,000- Phase II Member Agencies Subtotal \$10,000 each MA		\$5,000 each MA or \$60,000 for region								
		Tolaf	\$910,000- Total \$1,870,000 for the region	\$730,000+ for the region and 7%-31% rate increase								
		Estimated Total Diversion						183,600				

		Table	Appendix 2: Costs Per Ton of	B Waste Reduc	tion		
ltem	Recommendation	Estimated One-Time Cost	Estimated Ongoing Cost	Disposal Reduction Percent	Disposal Reduction Tons	One-time Cost per Ton of Disposal Reduction*	Ongoing Cost per Ton of Disposal Reduction*
11	Promote Countywide Sale and/or Disposal Bans	\$50,000 + for public education	\$30,000+	0.50%	1,100	\$0.02	\$0.04
10	Encourage Consumption and Disposal Changes Public education. Could be done as part of #2 above.	\$5,000- \$10,000 each MA	\$5,000 each MA or \$60,000 for region	1%	2,300	\$0.23 - \$0.46 each member agency	\$0.46 each MA or
17	Promote Backyard Composting	\$5,000- \$10,000 each MA	\$5,000 each MA or \$60,000 for region	N/A; tonnage accounted for with collecting food waste	4,500 as part of food waste diversion(#15)	φυ.45 - φυ.90 each MA	1 '
18	Require Deconstruction/ Salvage/ Resale of Construction and Demolition Materials	\$5,000- \$10,000 each MA for public education	\$5,000 each MA or \$60,000 for region	5% in conjunction with C&D ordinance and resale facilities	11,500 and supports #8		1 '
8	Adopt, Enforce, and Homogenize the Construction and Demolition Ordinance Could be done as part of #2 above.	\$5,000- \$10,000 each MA	\$5,000 each MA or \$60,000 for region	10%	22,900 and supports #18		\$4.58 each MA or
9	Adopt and Enforce Multi- Family Dwelling and Business Recycling Ordinance Could be done as part of #2 above.	\$5,000- \$10,000 each MA	\$5,000 each MA or \$60,000 for region	10% (as part of wet/dry collection)	29,700	\$2.97 - \$5.94 each member agency	\$5.94 each MA or \$0.50 for region
14	Add Materials Collected to the Recycling Stream	Franchise Agreement Revision	1%-3% rate increase	1%	2,300		\$748.77 - \$2,246.31
15	Add Food Waste Diversion to Collection Services (Residential and Commercial)	Franchise Agreement Revision	1%-5% rate increase	2%	4,500 and supports #12 & 16		\$878.99 - \$4,394.96
13	Offer Residential Unlimited Services of Recycling and Green Waste Containers	Franchise Agreement Revision	1%-3% rate increase	1%	7,300	-	\$2,376.53 - \$7,129.60
12	Implement Wet/Dry Collection Routes	Franchise Agreement Revision	2%-10% rate increase	44%	102,000		\$9,961.91 - \$49,809.55
1	Increase JPA Program Assistance with other County Departments (e.g., used oil programs, sharps and pharmaceuticals)	N/A	\$40,000 + Materials and staffing	N/A	Supports #4-18		N/A

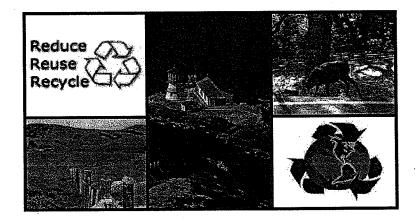
	1 .		2: Costs Per Ton o	1		One-time Cost	· · ·
Item	Recommendation	Estimated One-Time Cost	Estimated Ongoing Cost	Disposal Reduction Percent	Disposal Reduction Tons	per Ton of Disposal	Ongoing Cost pe Ton of Disposal Reduction*
2	Increase JPA 's Role in Assisting Administration of Member Agency and Countywide Programs Could support #6-10 below.	\$200,000 (Fund Phase II)	\$120,000 + Materials and staffing	N/A	Supports #4-18	Reduction*	Reduction N/A
3.	Increase Board of Directors Meeting Frequency	N/A	N/A	N/A	Supports #4-18		N/A
4	Help Facilities with Siting and Permitting a) Solid Waste and b) Non-Solid Waste JPA materials and staffing	N/A	\$120,000 + Materials and staffing	40%	Supports #18	N/A	N/A
5	Support Extended Producer Responsibility (EPR) and Waste Reduction Policies at State and National Level Public education	N/A	\$120,000 + Materials and staffing	N/A	Supports #10 &11	N/A	N/A
6	Revise Solid Waste Ordinances Could be done as part of #2 above.	\$5,000- \$10,000 each MA	N/A	N/A	Supports #7, 9 & 18	· Ν/Δ	N/A
7	Revise Franchise Agreement Language Could be done as part of #2 above.	\$25,000- \$75,000 each MA	N/A	10%	Supports #8, 9, 12, 13, 14, 15, & 16	N/A	N/A
16	Implement Food Waste Digestion	Franchise Agreement Revision	2%-10% rate increase	N/A; tonnage accounted for with collecting food waste	N/A	N/A	N/ <i>i</i>

<sup>\*</sup>Cost per ton was calculated using the highest noted rate in the County at \$102.39 from Christmas Tree Hill (Corte Madera). (Source: Table 20: Hill Areas)

#### **EXHIBIT B**

# Comments on Marin County Hazardous and Solid Waste Management JPA

# Final Draft Zero Waste Feasibility Study



#### Comments Received by 11/10/09

Matt McCarron, Local Task Force, Novato Representative

Dee Johnson, Novato Sanitary District

Jon Elam, Tamalpais Community Services District

Roger Roberts, Marin Conservation League

Marin Sanitary Service

Loretta Figueroa, Almonte Sanitary District, Local Task Force Special District Representative

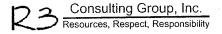
David Haskell, Member JPA Local Task Force on Solid Waste

Judy Schriebman

Bob Brown, City of San Rafael

Ken Nordhoff, City Manager, City of San Rafael

Sustainable San Rafael



### Matt McCarron

Local Task Force, Novato Representative

Comments on Draft Zero Waste Strategic Development Plan 10/8/09

By Matt McCarron, Local Task Force, Novato representative

The plan is being prepared for the Marin County Hazardous and Solid Waste Management JPA. This JPA is responsible for Solid Waste planning and reporting for the county of Marin and to the State Integrated Waste Management Board to meet AB 939 requirements.

#### General Comments:

1. Overall impression, the document does capture all the Solid waste structure, basic activity, shortcomings per district and offers a fairly comprehensive set of recommendations to try to head toward Zero Waste.

Response: Comment noted.

2. No timeline is associated with recommendations to achieve the JPA adopted goal of 2025. The date coincides with the closing of Redwood Landfill as it reaches it's expected capacity based on the county's current projections.

Response: Comment noted.

3. Author admits that there are limitations in the data used to do the analysis due to access from haulers and franchise agencies. Some reliable data from Marin Sanitary Service's (MSS) own waste characterization study is helpful in predicting basic trends, but not targeted efforts is specific service area out side of MSS service areas or comparable collection methods in those areas. But this does demonstrate a weakness in the county waste assessment that should be reflected in the recommendations, but is not. We will need better data all along the time line to zero waste, so that proper feedback will facilitate design of programs to address progress toward the goal.

Response: Comment noted. Acquiring better data for collection is part of Recommendation 7 where franchise agreements would provide more detailed collection information based on service sectors.

4. Diversion and disposal info on pages 11-16 is helpful but only represents hauler info from residential activity in general. The aggregated data only represents about 40-45 of the county's diversion. The county's actual diversion is approximately 71%, we need more clarity in this data gap so we can see if the recommendations will actually apply to on-going activities not one time diversions. More data needed.

Response: In the "Hauler Services" subsection, it is stated:

"It is important to note that diversion rates stated in this section are only for the materials collected by the haulers. These diversion rates account for 30 percent of the JPA's AB 939 reported diversion, which also includes material from store back-haul recycling activities and self-haul operations that never enter the possession of the hauler."

In addition, the Feasibility Study is focused on up-stream and down-stream waste generation reduction. Because the AB 939 diversion rate represents material that is backhauled by

businesses, grasscycled through park operations, etc., the recommendations presented in this report are focused on programs that either are not optimized or do not exist. All recommendations are intended to provide on-going diversion of disposed streams/waste prevention rather than being one-time activities. The JPA may be able to provide more detail on the activities contributing to the AB 939 diversion if that information is still desired, but it does not affect the recommendation design because disposed materials are a main focus of determining the feasibility of achieving Zero Waste.

5. Something conspicuously absent in the recommendation is the JPA fee structure and it's sustainability. The cost of programs notwithstanding, the JPA receives its funding on disposal fees at the landfills. If the waste disposal goes down as anticipated by the program's plan, the JPA will be continually raising fees on disposal to stay even. Alternate methods of funding the JPA need to be identified.

Response: See Section VIII of the report.

**Specific Comments:** 

Page 5 column 2 Green Business program. The consultant identified the Marin County Green Business as administer by the agency, it is administer by the Marin County Community Development Department. Point of history: the Green Business program was originally proposed to the JPA as a tool, but staff recommended against it since they could not understand the cost of implementation. The Marin program is fastest growing program in the CA Green Business Network since it's inception. Response: Correction made.

Page 8 Column 2 Member Agency Roles. This exposes a fundamental flaw in the possible execution of a Zero Waste plan for Marin County. Special districts that issue franchise service agreements are not part of the JPA and therefore not bound to the Zero Waste policy adopted by the JPA. Since a the bulk of recommendations are tied to diversion and recycling activity, the hauling contracts are not required to be revise to assist in this process making it impossible to implement the suggested remedies. The current city manager-county administrator structure also has accountability to the public issues. These managers are not elected officials, and therefore do not posses authority on spending or approval of model ordinances suggested as remedies to some of the diversion recommendations. Elected official on the Board of Supervisors, city councils and special district boards do have this authority.

Response: Comment noted. This is why Phase II, implementation, is predicated on participation of the Member Agencies. The involvement of the elected officials of the Member Agencies and staff execution is necessary for working towards the Zero Waste Goal.

Page 44 column 1 Steps to achieve first bullet. Should be "Work with The county and **City** planning Departments" Response: Correction made.

# Dee Johnson

Novato Sanitary District

#### Comments - Zero Waste Plan inaccuracies

Page 2 – Clarify that hazardous waste DOES NOT count towards diversion goals – although it's a great ZERO Waste goal

Response: Footnote has been added: "Household hazardous waste is not considered in determining diversion rates, because it is not legal to dispose of the materials in landfills. However, reduction of HHW is consistent with a Zero Waste Goal."

Page 3 – Clarify that the MMS waste characterization study conducted in 2007 did not include Novato waste stream

Response: "The study did not include Novato waste stream." was added as the last sentence on the waste characterization bullet (3<sup>rd</sup> bullet in "Data Sources" subsection).

 Waste characterization data used was based off of a study of the Marin Sanitary Service (MSS) Transfer Station conducted in 2007 for residential and light commercial loads. The study did not include the Novato waste stream.

Page 6 – Clarify "purpose" of the JPA - refer to Scope of JPA agreement – planning for AB939 mandates, hazwaste plans, promoting programs, public involvement. Section 6.1 of the agreement are required programs by all member agencies. Section 6.2 – which includes programs such as household hazardous waste, public outreach, etc. are member agency elective programs - not required.

Response: The second paragraph of "JPA Role" section has been amended to read: "The JPA is administrated by the Marin County Department of Public Works/ Waste Management. The role of the JPA is determined by the policies that are adopted by the JPA Board and the JPA Executive Committee. Based on the JPA agreement, and the policies and direction from the Board and Executive Committee, the JPA has the following responsibilities:

Page 6 – List of JPA responsibilities:

Christmas Tree Recycling - member agencies and haulers do this, not JPA

HHW education - NOT for Novato (I don't think the JPA does any for San Rafael either)

Collecting batteries – again, not for Novato

Response: The responsibilities noted are related to public outreach that affects all Member Agencies rather than being specific. Collecting batteries bullet has been modified to: "Collecting batteries from County offices."

Page 7 - Novato submits an annual HHW report to the JPA staff which includes detailed information about what is collected at the HHW facility, tonnage, programs operated, costs, etc. Don't know what San Rafael does

Response: Will check with the JPA.

Page 7 – Programs NOT managed by JPA:

Used Oil Block Grant – received by City of Novato and managed by Novato Sanitary District

Response:

 "Used oil block grant collection (program is managed by the Marin County Stormwater Pollution Prevention program (MCSTOPP)), and the City of Novato Novato Sanitary District;"

"Marin County Solid and Hazardous waste Permanent Facility" - I don't think this is the correct name for this facility – it's the Household Hazardous Waste Facility operated by the City of San Rafael and MSS

Response: Comment noted.

Household Hazardous Waste collection – Again, this is the Novato Household Hazardous Waste Permanent Facility operated by the Novato Sanitary District and funded by AB939 fees.

Response: Edited to read:

 Household Hazardous Waste collection at the Novato Household Hazardous Waste Permanent Facility for the Novato Sanitary District (NSD) (program is operated by the NSD and funded by AB 939 fees);

Pharmaceutical and sharps collection – managed by Environmental Health and partially funded by Novato Sanitary District and others

Response: Bullet edited to read: "Pharmaceutical and sharps collection (program is managed by the County Environmental Health Department and is partially funded by the NSD and others);"

Battery collection program in Novato is managed by Novato Sanitary District

Response: Bullet edited to read: "Battery collection (program is managed by the San Rafael Fire Departments and in Novato by the NSD)."

Also, Novato has a fluorescent tube collection program at Pini's Hardware and the Recycling Center

Response: Comment noted.

Page 8 – JPA supports operation of San Rafael HHW facility

Response: Bullet edited to read: "JPA: supports operation of the *Marin County* HHW facility and staffing; develops public outreach and planning documents; and reports to state agencies."

Page 8 Under Member Agency – Might want to clarify that City of Novato – unlike all the other member agencies - does not administer waste franchise agreement; also, the Member Agencies don't adopt the JPA budget – the JPA Board does this; also, under Used Oil Block Grants – City of Novato applies on own, but JPA, thru County DPW, applies for the remainder of County.

Response: Bullet edited to read: "Administer their Franchise Agreements with solid waste collection companies and approve rate adjustments. Note that the City of Novato's franchise agreement is administered through the NSD;"

"Approve JPA Budget" bullet has been removed.

Used Oil Block Grants section, 2<sup>nd</sup> paragraph, page \_\_\_\_ amended to: "The County of Marin Stormwater Pollution Prevention Program handles all aspects of the Used Oil Block Grants for the County except for the City of Novato which applies for and administers the grant on their own through the NSD....

Page 10 – Although the service areas are technically unincorporated county, it might be good to add franchising agencies: these also include: Bolinas and Stinson Beach under Redwood Empire; also, Ross Valley Sanitary District and Las Gallinas under MSS; and I think Marin City CSD still has an agreement under Bay Cities

Response: Franchising agencies have been added to Table 1.

Page 11 – you indicate that MSS facility operates at only 40% of capacity during a STRONG economy; however, elsewhere in report you indicate that MSS does not have capacity to serve entire county – sounds contradictory

Response: Comment noted. Ability to handle the waste stream once C&D ordinances are adopted and enforced throughout the County is unclear. If the Member Agencies and franchise agencies direct all materials to MSS, it should only be done if some type of tipping fee oversight by the participating agencies.

Page 13 – Novato Disposal. Household Hazardous Waste is handled at the Novato Household Hazardous Waste facility, which also collects TV's and CRT's. Novato Sanitary and Novato Disposal also operate 2 E-Waste events a year, 4 days each, where any Novato residents an bring any electronics for recycling. Under public education, Novato Disposal also distributes backyard composters to Novato residents at a reduced cost.

Response: Information added to Novato Disposal's service description.

"Household Hazardous Waste and E-Waste disposal is handled-by at the Novato Recycling Center, which also collects TVs and CRTs. Novato Sanitary and Novato Disposal also operate 2 E-Waste events a year, 4 days each, where any Novato residents an bring any electronics for recycling."

"Public Education

As part of the franchise agreement with Novato Sanitary District, Novato Disposal advertises cleanup events, the Christmas tree program, recycling and HHW programs, and also requires a Novato Solid Waste Management Work Plan and a bi-annual newsletter. In addition, to the efforts of Novato Disposal, the Novato Sanitary District produces a comprehensive recycling guide that identifies reuse and recycling locations by material type and hauler service information. *Novato Disposal also distributes backyard composters to Novato residents at a reduced cost.*"

Page 14 – To clarify, the MSS waste characterization study did not take into account Novato.

Response: Footnote was added: "The study did not include the Novato waste stream."

Page 18 - Marin Resource Recovery City - Location is San Rafael, not Marin

Response: Correction made in Table 11.

Page 20 – Used Oil Block Grants – I don't know what the County received, but Novato was awarded \$13,424. Novato has 4 certified oil collection centers **and** the Novato Recycling Center, which collects oil, but is not certified, for a total of 5. I don't know where you got these numbers for oil collection– I have Novato's data if you want it. We send this data to the JPA as part of our annual HHW report which I mentioned earlier, and of course to the State as part of our UOBG Annual report. However, I really don't know what this has to do with Zero Waste – it's not diversion; we do work with the County on some county-wide used oil campaigns. Our data is collected and reported separately as required by the grant.

Response: Comments noted. Data was reported by the Centers to the state for reimbursement. Text has been revised to read:

"The County of Marin has 13 certified collection centers, with six in San Rafael, five four in Novato (plus the Novato Recycling Center) and one each in Greenbrae and Pt. Reyes."

Page 22 – Data not provided from sharps collected at Novato permanent HHW facility?? I'd be happy to provide it – 130 pounds were collected in FY 07/08. Our stats show this increasing for FY 09/10

Response: Comments noted. Revisions to text are below.

"Tables 12 and 13 give a breakdown of the collection locations and identify the amount of sharps that have been collected. Data of sharps collection that were disposed at the Novato Sanitary District's permanent HHW facility were not provided and t The numbers do not include any sharps that may have been generated through regular business operations (e.g., hospitals) or disposed through mail-back programs."

Footnote is also added to Table 13 to clarify data from Novato not included for two of the fiscal years. "FY 05-06 and FY 06-07 does not include the Novato permanent HHW facility collection."

Page 24 – Commercial recycling ordinance – Will be required a/o 2012 due to AB32

Response: Comment noted. Second to last sentence in the Commercial Recycling subsection revised to: "Regardless, mandatory commercial recycling ordinance will need to be adopted *in 2012* as part of *compliance with* AB 32."

Page 28 – Do you have an estimate of tons per day of food waste DISPOSED? (Might be an interesting number)

Response: Estimation based on the MSS waste characterization study has food waste disposal at over 53,000 tons. This is provided in Table 9 of the report.

Page 29 – Currently all Novato Disposal green waste sent to Redwood is not being used for ADC. Please clarify

Response: Text added to last paragraph of Green Waste section.

"Marin County jurisdictions already provide residential curbside collection of yard waste. Redwood Landfill uses the material for use as ADC, erosion control and compost. *Novato Disposal notes that green waste sent to Redwood Landfill from them is not being used for ADC.* Seventeen composting facilities have been identified within 100 miles of the City of San Rafael. Table 17 below lists these facilities by distance."

Page 33 – Small appliances would not be considered rubbish – they're probably E-Waste and must be handled as a universal waste or a hazardous waste.

Response: Sentence has been edited to read as follows:

"More specifically, rubbish would include mixed material products (such as small appliances and toys), aseptic packaging, and film plastics. Rubbish would be classified as those materials for which there is no viable market."

Page 39 – Alkaline batteries ARE covered by a law in the State of CA (Universal Waste regulation) that bans them from the trash as of February, 2006. They must either be sent for recycling or handled as a hazardous waste.

Response: Text revised as follows.

"While there are options for rechargeable batteries, they collect about 10 percent of total batteries generated by the public, the rest being alkaline batteries, which are not covered by any law and have no stewardship program."

Page 46 Item 8. Novato HAS a C&D ordinance – remove from should adopt list.

Response: Correction made.

Page 47 – Item 9. Indicate that a commercial recycling ordinance will be required to be adopted by 2012 as a result of AB32.

Response: Text edited as follows:

"This ordinance will be required to be adopted by 2012 as a result of AB 32. The JPA should consider implementing a regional ordinance to require recycling of all recyclable materials generated at businesses and multi-family dwellings similar to Sacramento County. With residential customers currently with full diversion options, Multi-family dwellings and businesses are the next sectors that can achieve high diversion."

Appendix A Chart – Clarify that all these JPA's have different responsibilities – might be good to add service area population, too. But we're really comparing apples to oranges here. Also, under Board members for JPA it's either an elected official or agency staff – not an appointee.

Response: Comments noted. Change made to Board members.

These are just the inaccuracies I uncovered. We will also submit some general comments to JPA staff to be included with the JPA Executive Committee packet.

## Jon Elam

Tamalpais Community Services District

#### REVIEW AND ANALYSIS OF DRAFT ZERO WASTE STRATEGIC PLAN

As a member of the Marin JPA Advisory Committee, we are responsible for providing thoughts and insight to the County JPA Board on issues relating to solid waste policy in Marin County.

As a step in that process, they recommended and the JPA Board agreed to provide the funding to undertake a county-wide strategic plan for solid waste management that could lead to a program of zero waste by 2025 in Marin County.

This is a summary of that report with recommendations by its author.

The theme of the report is that landfill diversion needs to increase from current rate of 72% to 80% by 2012 and to zero waste by 2025. The report though mostly covers a range of things that are more information based than strategic, and perhaps interesting to the reader, but not clear as to how they lead to achieving the plan's goals.

Response: Comment noted. Section VII, Recommendations, outlines the programs and policies to obtain the Zero Waste Goal.

This was a useful reminder, as after nearly four years of service, that the work of the JPA Advisory Committee itself remains unfocused, undefined and basically bounces from meeting to meeting without clear purpose. This is reflected in the lack of quorums at many meetings and other times meeting have been cancelled. If the goals this proposed plan recommends are to be successful, having a broad coalition such as the Advisory Committee will need to be in place and very focused.

Response: Comment noted.

The report is confusing in separating out various components of the study. For instance, even the introduction itself spends much of its time discussing who the JPA is and little on why the study is being done.

Response: Comment noted.

Similarly, the goals section confuses the goals of the study versus the JPA, and does more to introduce the study's actors than did the introduction section where they should have been. It seems difficult to grasp, if I was a first time reader, on what and who is doing this and why.

Response: Comment noted.

The methodology section probably should have been an appendix versus a section. Obviously, to do a study requires the collection of a base of data. It suggests, but does not explain that the consultants used a model "that can be adjusted to reflect anticipated participation and diversion".

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That suggests the study could change the results to any goal wanted without any definition of the assumptions. How can a reader trust the plan's outcomes?

Response: Comment noted.

The report gives a list of all data sources they collected and evaluated, but again suggests that all data they wanted or needed was not able to be obtained. The reader is left without any details as to the importance of the missing data or why they could not obtain it.

Response: Comment noted.

The author lists several impediments to achieving the zero waste goal, but does not explain exactly how.

Response: Section VII, Recommendations, outlines the programs and policies to obtain the Zero Waste Goal.

Solid waste collection efforts are carried out in a decentralized manner by several separate haulers. Marin's decentralized collection system is often confusing to the residents and the range of services each provides is even slightly different. Marin County is unusual in the state with the numbers of service providers in a range of areas such as sewer collection and treatment, fire, park and recreation, and solid waste. In the case of solid waste, each city and many of the unincorporated areas have separate franchise (or service) agreements that vary in length and services provided. In most cases, the actual contract entity has little day-to-day role in the services provided, but receives a franchise fee now up to nearly 15% of the income collected by the haulers for the general funds of the cities or County.

Response: Comment noted.

These haulers have carried out a strong program of collection and in 2007 the JPA reports they deposited 229,271 tons in landfills. This is only a slight decrease from the 250,000 tons deposited in 1995.

Response: Comment noted. Also see Figure 2.

The study does not lay out the picture of how the collection system works and how little communication goes on between all these franchises and the JPA in terms of the study and its goals. It is great that the study team holds public meetings, but the real actors in garbage collection are not attending for the most part and have exhibited little interest in remodeling how the system works. This runs the risk that the study's goals create a heightened sense of expectations on the part of the environmental community and zero waste advocates, but may result in little change in how the system works since the franchises are not much involved.

The study does acknowledge these issues though. It states on pg 4, the JPA has a minimal role in program implementation and does not have any direct authority or resources to implement any new programs that might increase diversion.

Response: The intent of strengthening the JPA in policy and program involvement is to create a Marin County resource that is more able to lead the changes needed. This includes better communication and assistance between Member Agencies and the waste hauling community.

It acknowledges that each agency administers its own agreements and that they do not have any diversion goals or standards in them. It does not mention that many of the agreements have a long life and can be out for ten or more years into the future before coming up for renewal.

Response: Comment noted.

Given this decentralized system, each hauler is responsible for managing the disposal of their collected waste streams. This has taken the pressure off the system and worse, the report suggests that the County has insufficient capacity with in itself to process the amount of organic waste and construction and demolition materials that will be needed to achieve the diversion goals the study espouses.

Response: The report is not intended to suggest that the decentralized collection system has caused insufficient capacity. The intent was to show the lack of local facilities for processing of certain materials and that unless franchise agreements have diversion requirements, disposal can be a cheaper option than transporting material to out-of-county facilities.

One of the impediments not listed is that while the system has many haulers, there remains little competition between them. This may limit a franchise's options and requires, before any of the goals of a study like this, that the haulers get on board with the proposed changes.

Response: Comment noted.

Due to this complex system of franchises (a total of 25), the cities and the County agreed that instead of each one doing the required AB 939 reporting and data collection, that they come together and create a Joint Powers Authority (JPA) to do that work for them. That cost is supported by a regional tip fee collected on waste tonnage at the Redwood Landfill in Novato that many of the haulers use. The JPA is housed within the County of Marin Public Works Department and has been recognized for many of their efforts over the years.

Several other Bay Area counties have similar program management efforts, but have contracted out to non-governmental agencies the implementation of diversion efforts with tipping fee revenues. Alameda County's StopWaste.org is among the most successful and one often mentioned as a model that perhaps Marin County could emulate.

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Response: Comment noted. The "Marin JPA Role Compared to Other JPAs" subsection on page 8 identifies the differences in JPA responsibilities, funding and staffing as a starting point to formulating how big of a role the Member Agencies want the Marin JPA to have.

The report lists a number of tasks the JPA carries out. Many are ministerial as mentioned, including the collection of haulers data, they also have a small public outreach effort, including a page of recycling resources in the yellow pages, full page ads in the papers outlining Christmas tree collection efforts, and develop draft model ordinances. Basically, the work is to fill in a county-wide focus on county-wide information efforts dealing with solid waste. The key point though, as mentioned earlier, they do not manage or interact with the many franchise operations and how they do their work.

Response: Comment noted.

The study gives reports on each hauler and the areas they serve and contains outdated collection data for those areas. This is useful and should be in the form of an appendix in the study and not in the body of the report.

Response: Comment noted. This information is provided in the body to provide context to the collection efforts undertaken.

Similarly, the report gives details on various disposal sites and locations that county haulers seem to use. Again, this is useful background information and should be an appendix as the listing itself does not help address the study's goals.

Response: Comment noted. This information is provided in the body to provide context to the collection efforts undertaken.

Finally, after sorting through 41 pages, the reader gets to the recommendations section. They are broken down into two phases – The first looks at the JPA itself, its roles and responsibilities, and the second relates to creating regional coordination and leadership that would be required to achieve the zero waste goal.

#### GOALS – PHASE I

Goal 1: Increase the Communication Assistance of the JPA with other County Departments

This should be an internal recommendation goal and has little effect on various JPA agencies such as cities. To have it as the lead goal sends a very confusing message about the study's larger goals and is hardly the top goal of the study.

Response: JPA staffing would likely need to be increased if there is additional coordination between departments. Therefore the funding implications for the JPA and role that the Member Agencies desire for the JPA makes this a consideration for the Member Agencies rather than an internal issue.

Goal 2: Increase the JPA's Role in Assisting in the Administration of Member Agencies and County-wide Programs

The study suggests that member agencies do not have the resources to monitor all the available programs and implementation (i.e., what happens to the 15% franchise fee collected from each customer?). It remains unclear what the franchise holders would request or that the customers who will pay for this through higher rates want or need it. Why are the haulers themselves not providing this service as a part of doing business with each entity they serve or are they?

Response: JPA staffing would likely need to be increased if there is additional coordination between departments. Therefore the funding implications for the JPA and role that the Member Agencies desire for the JPA makes this a consideration for the Member Agencies rather than an internal issue. In addition, regional franchise agreements would need to be modified (Recommendation #7).

#### Goal 3: Increase the Frequency of JPA Board Meetings

One of the real challenges in the Marin JPA model is that the representative for each city on the JPA is the City Manager. In few cases have any of them operated or are familiar with solid waste collection or solid waste policy. This is one reason most cities have turned to franchise haulers to carry out their services, thus leaving the City Manager time to manage a range of higher priority activities in each city or in the County. Given that reality, the idea of holding more meetings will do little to help raise the bar on collection. What needs to happen is to create a separate organization that operates in this area with each of the haulers and that brings technical expertise to the work (they of course might not necessarily support this). This would leave the City Managers to do what they do best and that is to manage agreements and work. Now an alternative argument is that Marin often is of the "no government is the best government"

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approach and so unless it can be shown that the present system of benign neglect is not working, then there may not be support for any of this.

Response: Comment noted. Increasing the JPA role and authority would derive from the Board. In addition, because these meetings are the main contact with Member Agencies and Member Agency action is necessary for obtaining Zero Waste, increasing meeting frequency is a method to increase coordination.

Goal 4: Help Solid Waste and Non-solid Waste Facilities with Sitting and Permitting Process

This recommendation is one of the most important in the whole study. In county after county, it has been found that unless a county is willing to provide the leadership to site key facilities, they just don't happen. Marin has been very passive in this area and played minimal roles in directing where facilities need to be. A Phase II piece of work needs to include a study of what others have done and how they did them. Monterey County is one great example. Many facilities are sited by counties and operated by private operators and that could easily work in Marin.

Response: Comment noted.

Goal 5: Support Extended Producer Responsibility (EPR) and Waste Reduction Policies at the State and National Levels

The JPA has been an active participant in the EPR area, as have several haulers. This is important, but should be a basic part of the work of the JPA, not a key goal of the study.

Response: Comment noted. It is part of achieving Zero Waste in the long-term and if not identified in the report as a recommendation, may lose prominence in activities undertaken by the JPA as their role evolves.

#### Goal 6: Revise Solid Waste Ordinances

The idea of working with each of the franchise agreements to modernize them and build in the language that reflects new collection goals is important, but it is a two-way street and the haulers themselves who benefit from these agreements financially should be the lead on this work. A workshop for various JPA member agencies is critical. In the case of a number of the cities, there exist solid waste subcommittees of the City Council that would welcome the information and education. The JPA needs to make sure before they incur the costs of doing this work, that there is an audience for it. The County developed a model C&D ordinance a while back and only a couple of cities have adopted it. Be careful not to get ahead of the issue on this. This is a Phase II strategy that is an implementation goal of adopted policies, not something that would have to stand on its own.

Response: Comment noted.

Goal 7: Revise Franchise Agreement Language

This is similar to Goal 6 and does little by itself to achieve the plan goals. Once again, a Phase II effort built around a set of specifics for each service area.

Response: Comment noted.

Goal 8: Adopt, Enforce and Homogenize the Construction and Demolition Ordinance

The goal of having a C&D ordinance is generally not in dispute. In each case though, who is responsible for administering it is the challenge. One of the ways to deal with it would be for the JPA to fund the local management and inspection by providing tipping revenues back to each city for carrying out this service. Marin County itself has had staff problems doing this on-site inspection work. Many building officials do not see this as a part of their work as a building official (many are contract employees), so once again this will be a challenge to carry out on our small scale system. The management of getting permits by the haulers and for them to keep records of each load and making reports back to each city is not cheap or easy. Some simplification of how a county-wide system would work is going to be required.

Response: Comment noted.

Goal 9: Encourage Consumption and Disposal Changes

This is an education program goal, a goal that most systems already carry out to some degree. The disposal levels are reflecting a new sense about waste and most haulers are seeing reductions in tonnage in 2009 over past years. Developing model materials for use by local newsletters is important, but in the end, the key is to link this back into policy foundation that includes recycling education and reuse.

Response: Comment noted.

#### **SUMMARY**

This list of Phase I activities seems quite light and of little value in leading to real change that achieves our zero waste goal. It should be completely redone and refocused around the larger goals and get away from just making work.

Response: Unless the foundation is developed/strengthened and the JPA has increased capability to assist and execute programs and policies with the Member Agencies, the recommendation that are in Phase II (implementation) will likely not occur.

#### GOALS - PHASE II

Goal 11: Promote Regional Sale or Disposal Bans

This comes with a lot of publicity, but the challenge with bans is that you have to have a monitoring process to make sure they are working, and that costs money. About the only effort undertaken so far revolves around plastic bags. There are other efforts on Styrofoam and plastic food dispensers are in the works though.

Opposition to this suggests that many of these products are recyclable and these bans raise costs for local businesses. Clearly a challenge in Marin will be how these efforts are coordinated since most service areas are quite small and so if one city does something, then the city adjacent to it needs to do it as well. The study suggests a ban would gain 1,100 tons of annual reductions. This against a deposit total of 229,000 tons is not even one third of one percent and will cost \$50,000 to implement. I don't think that has much of a payback or gets us close to the 80% diversion level.

Response: Comment noted.

Goal 12: Implement Wet/Dry Collection Routes

This gains significant tonnage at 92,000 tons diverted, but the basic organization of Marin County collections make this difficult to implement. It is hard to tell how many separate routes there are. It would not be a push to think there might be 100. The idea of creating separate wet and dry collection routes will be expensive and difficult particularly with many of the residential routes spread across steep roads and hillsides. There might be an opportunity to gain some cooperation between haulers on the wet side, by creating a company that works across service areas and focuses on specific product collections and disposal such as food wastes and grease. Many of the existing fleets are not designed to take wet products. Grease dumped into garbage or green waste carts spills when dumped into the trucks and can leak into the roadways. They can also increase cross-contamination of materials greatly, devaluing resale market values. This goal will need significant cross-franchise hauler cooperation and those efforts need to be funded upfront by the JPA if to be seriously considered.

Response: Comment noted.

Goal 13: Off Residential Unlimited Services for Recycling and Green Waste Carts

This is presently provided in a few cases. As recycling markets grew in the past, additional recycling pick-ups were provided. It is unclear how much additional recycling material and green waste could be generated if additional carts were provided. TCSD provides this service now and somewhere around 3-4% of the customers have requested extra recycling and green waste carts even though they are free.

Response: Comment noted.

Goal 14: Add Materials Collected to Recycling Streams

The JPA should have an agreement with a market consultant to help work with haulers to ensure that all marketable materials are collected. This is a very complex issue as the price of materials can vary from month to month. Product streams also may be unpredictable making the costs of capital to expand materials processing risky. TCSD does a range of things that are not profitable, but important to our residents. This includes curbside e-waste collection (anything with an electrical cord), fluorescent and CFL light bulbs, batteries (both regular and rechargeable), printer cartridges, and has small single day collection events for paint, paper shredding, and pharmaceuticals. These events can cost up to \$10,000 each, but have added value to our customers. Probably 4% of our annual collection costs of \$362/household go to fund these events. The public seems to greatly support them and it reinforces our goals of supporting a broad effort at recycling and reuse. Unfortunately, the State does not recognize these tonnages as a part of our diversion numbers and that needs to be changed. As markets expand, the JPA can do the research and help identify the proper resources customers need to utilize.

Response: Comment noted.

#### Goal 15: Add Food Waste Diversion and Collection Services (Residential and Commercial)

The major issue of the collection season is to broaden collection to add food wastes. San Francisco has led the way by requiring this with the risk of fines if people don't comply. The biggest enemy of food waste collections is the garbage disposal. The ease of washing plates and pans into the sink makes the trials and tribulations of having a separate collection container less appealing and a hassle. Even San Francisco, which has been offering this as an ongoing service, finds that just 25% of all households actually use the food waste collection system.

The issue breaks down into two parts. The first is the individual collection component with households and businesses; the other is the processing sites. Presently, the latter is still in the planning stage in Marin. Redwood Sanitary Landfill has proposed to do it, Marin Sanitary is doing a pilot, and even Central Marin Wastewater Treatment Plant is proposing using one of their digesters to process food wastes to create energy to help run the plant.

Within the next year this option will come online, but as in most cases, the JPA has not been a leader with this and has waited for the hauler community to develop options. This reflects the ongoing lack of leadership that will need to be overcome if the new higher diversion goals are to be reached. When the issue does come up, individual haulers have mentioned to their franchises that additional costs will be added if they want to implement this.

Response: Comment noted.

#### Goal 16: Implement Food Waste Digestion

This was mentioned under Goal 15, CMSA is working with their area to explore developing a digestion system. This has been successfully done in many parts of the country. Opponents suggest this waste stream ought to be composted and reused that way versus separating it out for

power generation. At this time, the issue is still very much in flux. A position by the JPA on this method needs to be reviewed.

Response: Comment noted.

Goal 17: Require Deconstruction/Salvage/Resale of Construction and Demolition Materials

This is a well known diversion strategy in many places. To implement this though will require a very focused program and investment strategy. The implementation details fall on others to carry out and will be expensive.

Response: Comment noted.

#### SUMMARY

It was hard to define the cost estimates for each of the goals listed. A preliminary analysis though suggests a cost of \$300,000 to \$500,000 depending on how many of the items are implemented. If they are funded through the JPA, they can be carried out with an additional tipping fee of \$1.50/ton. If the costs are passed through to the haulers, then additional rates may be needed.

Response: Comment noted. Also see Executive Summary Table ES-3 and Section VIII of the report that discusses potential funding options.

The report remains though quite vague and suggests many strategies that may not be viable, with unclear benefits and outcomes. Before Phase II in the work is done, a serious refocusing of the goals is going to be necessary.

Response: Comment noted.

#### SOME ADDITIONAL THOUGHTS ON OUR FUTURE

Response: Comments in this section are noted.

As we think about the architecture of our county system, we have not delved into that critical component of how the JPA and its many collection systems work together (if possible) to reach our goals.

The "impediments" section of the study suggests that Marin does not have the capacity to support the diversion goals and none of the goals suggest a path to create that capacity. Does this mean we must rely on facilities <u>outside</u> Marin County? What comes first – our expanded facility capability or higher diversion? Do additional tipping fees create the fiscal resources needed? What form should the facilities take? It is often suggested that to be really successful, a <u>full sorting</u> of all the waste flows is required. Could this be done?

A dirty MRF might be required to sort all C&D materials, commercial accounts and single stream collections (Sunnyvale's SMART station is one example already in place). What type of facility would be appropriate? A double sort system or one that is including garbage, recycling, and green waste.

Again, cost is an issue, with a full facility costing perhaps \$50 million – that sounds like a real impediment.

Composting facilities now due to emission levels are being required to move indoors - another hugely expensive deal. If the 80% goal is to be reached by 2012, organics will <u>have</u> to be diverted from any landfill.

What should the role of the JFA be? What could it be? Options might include helping private operators (public funding might be available). As materials are proposed to be eliminated from landfills, perhaps new enterprises and businesses will recognize opportunities and provide need capacity.

Alameda County has sought to integrate more programs together such as the Green Business Certification effort. The study suggests this (Goal 2) but with a much more decentralized system it would be hard to measure impacts on how this has increased diversion.

The 80% goal by itself is vague in terms of actual tonnage. Should tonnage capacities be allocated to individual cities or franchises? TCSD has seen its garbage tonnage go down from 2,300 tons in 2005, to just over 1,700 tons in 2009. Unfortunately waste tonnage reductions don't equate ton for ton to recycling.

At what point will customers start to see they are generating reduced quantities of garbage and may expect reduced fees? Will the mandate approach San Francisco has proposed work in Marin? The cost of enforcement would seem high and the JPA or local communities have few resources for that.

There has been support for the concept of "waste audits". There are programs in the County that perform energy and water use audits. Waste audits might fit into that – again what might be the cost and who could do it?

Alameda County spends \$1.8 million to support StopWaste.org and funds individual city programs to the tune of an additional \$700,000. StopWaste.org staff are looking at alternative strategies, for instance to use those resources to fund an incentive program for haulers who reduce tonnage.

The JPA depends on funds generated from tipping fees. Many of the green coalition want those fees increased to support county-wide diversion strategies like StopWaste.org has done. Before this is set, it needs to be looked at carefully as the very goal of our study is to reduce waste

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tonnage. That translates into reduced income to undertake new expensive strategies on a shaky future income stream.

Our tipping fees are under \$5.00/ton. Alameda is \$18.95/ton, San Jose \$19.38/ton, European rates all exceed \$50.00/ton. A new architecture requires a thorough review of future tipping fees.

- One option is to raise fees for a 5-year period and target those revenues for capacity expansions.
- Approach II might be to set up a county fee via franchise agreements to support programs. This might be based on customers versus tonnage.
- With our relative small population, a fee of \$5-\$10 per customer is a lot
- A solid waste sales tax of 0.5% might be justified as a fair cost to keep down or cover the disposal costs of things that are bought. These funds might go back to the cities and county to support diversion goals.

If one was to do a real economic analysis of what it costs to divert a ton of garbage using the best facilities available, a number of \$100-\$150/ton is not unreasonable.

The goal of our study requires a high level of communication to get the behavior changes we need from residents, multi-family complexes, and commercial entities. Designing this effort will also be expensive.

What is the goal a communications program seeks to achieve? TCSD has developed a cute brochure that has been supported and used by our residents. What is the county-wide message that we are trying to get out?

It is unclear that this type of messaging can impact and create change. The County spent a lot of money on the "Get.Ready.Marin" program and it fell far short of its goals – that message was built around getting prepared for an emergency. Should our now "low-key" efforts be replaced with a more integrated county-wide effort with a common message across the entire county?

These are many of the strategic questions and issues needing to be addressed before a long-term zero waste strategy can be put in place.

# Roger Roberts

Marin Conservation League

Marin Conservation League Comments before the Joint Powers Authority (JPA) 9/17/09

with regard to the Draft Zero waste Strategic Plan Development prepared by R3 Consulting Grp.

1) A successful model of what a Zero Waste Program can deliver is already being done by the Seattle Public Utilities which serves approximately 150,000 residential households with curbside collection and recycling services through independent haulers at an average cost of about \$240 per household per year. (Provide the JPA with copies of the Seattle Public Utilities brochures provided to Seattle households.)

I share this with you because it is the sort of program result that we need to achieve in Marin.

Response: Comment noted.

2) In this connection, we agree with the conclusions listed on Page 4 of the Draft Report by R3 Consulting that points out that there are four significant organizational and structural impediments and barriers to achieving an effective Zero Waste program in Marin. As long as the JPA is under-funded, under-staffed, has no real authority, and only a minimal role to play, it will be very difficult to make a coordinated and effective Zero Waste Program a reality for Marin.

Response: Comment noted.

- 3) The present system of handling sold waste in Marin is fragmented, franchise agreements are not standardized and designed to promote waste diversion, and member agencies lack funding capacity to implement Zero Waste programs. Response: Comment noted.
- 4) We support the goals of achieving targets reductions in solid waste disposal through Zero Waste programs,

Response: Comment noted.

- 5) We believe that this can best be accomplished through a strengthened JPA fully funded through dedicated facility and disposal fees as is done by other JPAs in California Response: Comment noted.
- 6) With respect to the Draft Report from R3 Consulting Group we believe that it would be helpful if the report could be more specific and detailed as to the content of the recommended action steps laid out for Phase I and Phase II in Appendix B. For instance, perhaps samples of

a standard Franchise Agreement can be provided along with examples of fee structures to be sued to fund the JPA and its Zero Waste Programs. The report should also address how the Conversion Facility or Facilities necessary to achieve the 80% Diversion rate can best be organized and established in the County

Response: Specific steps to be undertaken in Phase II will be determined by each Member Agency. However, general implementation steps have been identified for each

recommendation presented in the Recommendations, Section VII, as "Steps to Achieve". Examples of franchise agreement requirements/ issues to be considered by the Member Agencies are outlined in Recommendation #7. Conversion technologies are only being considered as part of digestion projects as a way to divert food waste, although composting is another option. Facilities in the County will need to be addressed by the JPA and Member Agencies and is directly related to Recommendation 4.

7) The Marin Conservation League looks forward to working with the JPA, the JPA's Local Task Force, local haulers and the Redwood Landfill on developing an effective Zero Waste Program delivery system for Marin. Response: Comment noted.

Roger Roberts

# Local Task Force

October 7, 2009 Meeting

#### LTF comments include:

 Need to include estimated county wide costs to show what current conditions are costing.

Response: Estimated costs for new/expanded programs are identified in the Executive Summary Table ES-3 and Appendix B of the report. Developing a detailed cost estimate of current County waste management costs was not the focus of the Zero Waste Feasibility Study.

- 2. How can better data be obtained, and what should be asked for? Response: Tonnage data by service sector is the most crucial. Recommendation 7 addresses revising the franchise agreements to require the following tonnage information.
  - "Overall tonnage collected
  - By service area/type (e.g., residential, commercial, bulky item, special event, etc.)."

This information should be provided to the Member Agency and the JPA.

- 3. Should clearly indicate that education on better consumption habits is important. Response: Recommendation 10 has been edited to include the following sentence. "Public education on better consumption habits is a crucial element of this recommendation."
- 4. Show what other JPL's/agencies are collected in a per ton/per unit basis (i.e., StopWaste. Org, San Jose, Sonoma County.

#### Response:

- Sonoma County: \$5.40/ton
- San Jose: \$13.00
- ACWMA:
  - o AB 939 fees
    - Facility fee: \$2.00
    - HHW: \$2.15
  - Measure D: \$8.17
  - Waste import mitigation (from SF): \$5.68
  - o Import mitigation (from all other out of county): \$4.53
- 5. Show different diversion data for recyclables and compostables. Response: Information for the most recent waste generation study (2006) is available through the JPA.
- 6. Three Phase Approach:1) adopt uniform policies, procedures, ordinance, and programs, 2) undertake a financial plan, and 3) implement the necessary uniform policies, procedures, ordinance, and programs

Response: The study does just that--Phase 1 is a policies procedures, etc., and cost estimate Phase II is the implementation of the program and policy recommendations at the Member Agency level.

7. Explain why Marin has the highest generation rate and highest diversion rate.

Response: A second paragraph has been added to the "Waste Disposal" section explaining these rates.

"The County has the highest generation (disposal + diversion) and diversion rate in the state because residents and businesses consume a lot of products and sends the material for recycling or disposal. Because the generation is based on weight, construction materials could be dominating the waste stream (disposal, diversion or both sides of the waste stream). The high diversion rate is due to the recycling and reuse programs undertaken in the County and ability of the JPA to provide documentation to the state that proves a array diversion activities and their associated tons. However, the high diversion rate does not change the need to focus on the disposal stream (in the short-term) to achieve Zero Waste."

 Clarify that "regional" is the JPA Countywide region—not the greater SF Bay area region. I.,e, the Alameda-Santa Clara-Marin-Sonoma region.
 Response: This clarification has been made in the Structure of Recommendations section on page 2, paragraph 4.

"In consideration for the impacts of the short-term and long-term impacts of programs and policies, the recommendations presented in this Feasibility Study are organized into two phases: Phase I and Phase II. Phase I recommendation are intended to **create a regional (countywide) foundation** for recommended programs and policies to work. Phase II recommendations are..."

- 9. Explain how the economy has affected the data that we have (or that it has not) Response: Footnote has been added to the "Waste Disposal" section: "As economic conditions declined, so has disposal tonnage. In 2008, JPA disposal decreased to 211,000 tons. It is anticipated that disposal will increase as the economy rebounds (e.g., construction/remodeling activities, individual consumption)." Please note, as seen in Figure 2, over the past 12 years, disposal has ranged from 153,500 tons to 240,600 tons.
- 10. Show/compare data to 2000.

Response: Comment noted, but it the 2000 tonnage disposed does not change analysis in the report. Would also need waste characterization data from 2000 to make comparisons to 2007's waste stream. Also see Number 9, above.

11. Why not promote StopWaste's "business Partnership Program—should include similar program as an option.

Response: Comment noted, this can be part of Phase II (Recommendation 10).

12. Need detailed education plan.

Response: Comment noted. This would be undertaken as part of Phase II in conjunction with the JPA, Member Agencies and haulers.

13. Explain the residential diversion rate and why we don't have show similar info for commercial (or show the data)

Response: The diversion rates shown for the haulers is for all of the collection services they provide Member Agencies—not just residential. Data we were provided did not include a break-out of the sectors that generated the waste. As noted in new text of the "Hauler Services" section,

First paragraph: "It is important to note that diversion rates stated in this section are only for the materials collected by the haulers. These diversion rates account for a portion of the JPA's state reported diversion which also includes material from store back-haul recycling activities, recycling companies that collect source-separated material, and self-haul operations that never enter the possession of the hauler."

And later, the 4h paragraph:

"As highlighted in Tables 3-8, all haulers were achieving at least 30 percent (Mill Valley Refuse Service in the unincorporated County) and a maximum of nearly 65 percent (Marin Sanitary Service in Ross). Overall, the haulers diverted approximately 41 percent of the waste collected through their services. The JPA's data, as reported by the haulers, does not provide for detailed analysis of residential and commercial sector diversion. "

14. Where is diversion gap? SFD, MFD, commercial, C&D? Response: Unclear about what the question is referring to; if related to why AB 939 diversion rate versus the hauler diversion rates, then here is an explanation. Only a portion of the diversion rate for the JPA area is derived from hauler collection operations. It also includes material back-hauled by stores for recycling, self-haul material diversion at landfills (e.g., beneficial use), recycling centers (source-separated collection by companies rather than haulers or self-haul), grasscycling, and other source reduction activities. In addition, construction material reuse and inerts were documented in the state-approved diversion rate.

This text has been added to the report in the first paragraph of "Hauler Services":

"It is important to note that diversion rates stated in this section are only for the materials collected by the haulers. These diversion rates account for a portion of the JPA's AB 939 reported diversion which also includes material from store back-haul recycling activities, recycling companies that collect source-separated material, and self-haul operations that never enter the possession of the hauler."

- 15. Study provokes more questions than answers. Response: Comment noted.
- 16. Structure of JPA does not necessarily lead to Zero Waste. Response: The recommendations 1-5 are intended to improve the structure of the JPA and promote policies and programs to achieve Zero Waste.
- Include reference to Bolinas and Stenson beach on Table 7 (show all franchise agencies).

Response: Changes made.

18. What about GHG reduction-what is the estimated result on the new diversion programs, and if the Zero Waste Plan was implemented?
Response: GHG was not part of the analysis of achieving Zero Waste, but it should be noted that the commercial/MFD ordinance (Recommendation 9) that will be required by AB 32, is intended to reduce GHG. Estimated diversion is noted for each recommendation throughout Section VII and also is presented in Appendix B.

19. Must engage cities/franchising agencies and haulers on the same room to resolve/modify franchise agreements.

Response: Comment noted and language added to note the changes in the franchise agreement will require the cooperation of the haulers.

20. JPA does not have enough authority.

Response: Comment noted. This is addressed in Section V. Challenges to Achieving Zero Waste and strengthening the JPA's authority is the focus of Recommendations 1-5.

- 21. Need more info on the economic aspects of the plan. Response: See response to comment #1.
- 22. What are data gaps, and why is this happening, and why is it important. Response: Data gaps of greatest significance is the identification of tonnage collected and diverted and disposed by generator sector. This will enable identification of trends and areas to focus additional efforts.

Bullet 3 of Section IV. Data Sources has been edited to read:

- "Available tonnage information from the JPA. However, data did not distinguish the tonnage of material collected and recycled from Single Family Dwellings (SFD), Multi-Family Dwellings (MFD), Commercial, and Construction and Demolition (C&D); this information is valuable for tracking programs and targeting education efforts. Therefore, analysis in this Feasibility Study is provided only for SFD and commercial sectors."
  - 23. What is status of the siting of the re-use center? Response: The County planning department has the most recent updates on the status of the reuse center.
  - 24. How could JPA be structured to "pull in" all FAs? Response: We are not suggesting that the JPA "pull in" all franchise agreements. Rather., the JPA develop "model" franchise agreement language for reporting, diversion standards, and program features.
  - 25. BOS needs to be involved in JPA, and the JPA oversight needs to be elevated. Response: Comment noted.

# Marin Sanitary Service



To: Marin County Hazardous and Solid Waste Management JPA

Fr: Marin Sanitary Service

Re: Draft Zero Waste Strategic Plan Development

Date: October 9, 2009

Marin Sanitary Service (MSS) is pleased to be able to provide comments, corrections and suggestions to the *Draft Zero Waste Strategic Plan* in an effort to support an accurate and workable plan for the Marin County Hazardous and Solid Waste Management Joint Powers Authority (JPA).

Of crucial importance to achieving "zero waste" will be enhanced efforts to educate the public about recycling, reuse and reducing consumption. Interestingly, as a result of the downturn in the economy, we have already experienced a reduction in waste reflecting a reduction in consumer consumption. Given this reduction, timing may be perfect for a strong outreach program designed to build on the current trend and transform it from one that is economically driven, to one that is systemic in nature.

For convenience, our comments, corrections and suggestions are listed by page number, topic and direct quote where appropriate. Those marked with an asterisk are essential corrections that should be incorporated into the document prior to presentation to the JPA Board of Directors. If you should have any questions, please do not hesitate to contact us.

#### Page 3, IV. Data Sources:

- "...data did not distinguish the tonnage of material collected and recycled from
- ...Multi-family Dwellings, Commercial and Construction and Demolition."

The *Waste Characterization Study* done for MSS, by CalRecovery provided this data. Response: The quotation noted is in regard to the tonnage data collected by the JPA from the haulers. While the MSS data provided some sector breakdown, it does not supply all sectors of the waste stream that would be necessary and provide additional insight to the waste stream in for the purpose of developing recommendations. The MSS study was very valuable in providing a general analysis to be used for determining the County's waste composition.

#### Page 4, V. Impediments to Achieving Zero Waste:

MSS agrees that the JPA has high diversion rates and those rates have increased dramatically over the past 14 years yet disposal has remained relatively flat, we suggest

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further explanation as to the possible cause—an affluent county in which there are high rates of consumption.

Response: Comment noted. The additional sentence has been added in the same paragraph: "This is due to consumption rates not changing." This provides further clarification without attempting to classify "high" and "affluent".

"The JPA has a minimal role in solid waste program implementation at the Member Agency level and does not have any direct authority or resources to implement new programs and effectively increase diversion.

Each Member Agency administers it s own franchise agreement and the agreements are not diversion-based agreements"

There is regional oversight by the Franchisor's Group comprised of all the city managers of the cities served by MSS.

Response: Comment noted. No change is made to the text since our point is that the JPA must have a larger role. While the Franchisor's Group exists, the identification of the JPA's role is a crucial element to achieving the Zero Waste Goal.

"There is insufficient capacity for facilities located within the County to process the amount of organic waste, and C&D materials to meet the Zero Waste Goals."

\*Marin Resource Recovery Center (MRRC) does have C&D capacity and is currently developing a public/private partnership with Central Marin Sanitary Agency (CMSA) for waste-to-energy and ultimate composting of commercial food waste.

Response: These comments have been added to sections of the report that deal

Response: These comments have been added to sections of the report that deal specifically with these waste streams. The "Marin County Food Waste Anaerobic Digestion and Composting Pilot Projects" section of the report includes details the CSMA project.

\*In 2010 it is anticipated that residential green waste and food waste composting will be part of services provided by MRRC.

Response: This paragraph is in the Food waste section of the report. "When the necessary permits are in place, which is anticipated to be in 2010, MSS will begin co-collecting residential, kitchen food waste in the curbside green waste can *for composting*."

## Page 5, VI. Analysis, Marin County Leadership in Waste Reduction and Recycling, Green Business Program;

MSS is a member of County of Marin's Green Business Program and, with its waste management services, has assisted over 100 businesses in qualifying as well.

Response: This information has been added to the "Green Business Program" section of the report.

### Page 7, VI, Analysis, Marin County Leadership in Waste Reduction and Recycling, JPA Role:

"...the JPA does not receive data on HHW materials that may also be picked by through [sic] curbside operation like those provided by Mill Valley Refuse."

\*This is an inaccurate statement. This data is available through MSS HHW tonnage. R3 Comment: This is our understanding from the JPA. Text has been revised to state "However, the JPA does not receive data *from all haulers* on HHW materials that may also be picked through curbside operations like those provided by Mill Valley Refuse."

### Page 7, VI, Analysis, Marin County Leadership in Waste Reduction and Recycling, JPA Role:

"Other solid waste related activities that the JPA does not manage for the Member Agencies are....

- Marin County Solid and Hazardous Waste Permanent Facility..;
- Pharmaceutical and sharps..;
- Battery collection....

Because a variety of entities manage these programs, the JPA may or may not be receiving information on collection or be aware of opportunities to help improve or expand programs."

\*This statement is misleading. The JPA funds the program and has eventual oversight with the exception of pharmaceuticals.

Response: Text has been edited to read:

"Because a variety of entities manage these programs, the JPA may or may not be receiving information on collection or be aware of opportunities to help improve or expand programs. For the permanent facility, sharps, and battery collection, the JPA does fund the program and has eventual oversight of the programs."

# Page 7, VI. Analysis, Marin County Leadership in Waste Reduction and Recycling, JPA Role, Tonnage Reports to the JPA:

"The JPA does not receive reports from *all* the haulers that identify the service sectors that generated the diversion and disposal tonnages..."

\*This is an inaccurate statement. The JPA does receive this information from MSS through its *Waste Characterization Study*.

Response: Change made as noted above. The MSS *Waste Characterization Study* is a different subject from the tonnage reports that are submitted to the JPA on a quarterly or annual basis. While the *Waste Characterization Study* provides valuable information, all haulers operating in the County should be providing tonnage information to the JPA identified by the sector that generated it. Without all haulers providing this information consistently, the JPA will be less able to identify trends and develop effective and targeted programs.

Page 7&8, VI. Analysis, Marin County Leadership in Waste Reduction and Recycling, JPA Role, Marin JPA Role Compared to Other JPAs:

Page 3 of 12

\*Note should be made that while the budget for the JPA is significantly less than that of ACWMA and SBWMA, and that the JPA has significantly fewer staff, the JPA has won numerous awards and has the highest diversion rate in the state, all at a cost savings to the rate payer.

Additionally, given the current, serious budgetary limitations facing local agencies, the likelihood of additional publicly funded programs is highly unlikely. Past experience suggests that public "ownership" of such programs is more expensive. Response: Comments noted. Mentions of the County's high diversion rate and awards are made in the subsection "Marin County Leadership in Waste Reduction and Recycling".

### Page 9, VI. Analysis, Hauler Services:

"The JPA's data, as reported by the haulers, does not *provide adequate* permit analysis of residential and commercial sector diversion."

\*The MSS Waste Characterization Study does provide this data.

Response: The MSS *Waste Characterization Study* is a different subject from the tonnage reports that are submitted to the JPA on a quarterly or annual basis. While the *Waste Characterization Study* provides valuable information, all haulers operating in the County should be providing tonnage information to the JPA identified by the sector that generated it. Without all haulers providing this information consistently, the JPA will be less able to identify trends and develop effective and targeted programs.

### Page 10, Table 1:

\*Las Gallinas Valley Sanitary District has not been included in the Service Area for MSS.

Response: This District has been added to Table 1.

#### Page 10, Table 2:

\*Under "Milk Cartons" note should be made that no recycling market exists for this product.

Response: Please note that three other companies (Mill Valley Refuse, Redwood Empire Disposal and Novato Disposal) are collecting milk cartons as part of regular service.

\*The "Not Collected" column is inaccurate. MSS does collect waxed or coated paper and plastic bags.

Response: This has been corrected.

### Page 11, VI. Analysis, Hauler Services, Marin Sanitary Service, Services:

\*MSS provides 5 gallon buckets where space is a problem.

Response: A new last sentence has been added to the first paragraph of the MSS service:

Marin Sanitary Service offers weekly automated and semi-automated cart collection of solid waste, recyclable and green waste. The size of solid waste containers offered range

from 20 to 96 gallons, recycling is offered in 32 gallon carts, and green waste is offered in 64 gallon carts. Where space is a problem, 5 gallon buckets are also provided."

\*Green waste is unlimited, not "limited" as stated in this section.

Response: The sentence has been edited as follows: "Recycling and green waste services are unlimited and green waste is generally limited to 128 gallons with the exception of San Anselmo that has unlimited green waste service."

\*Paragraph 3 should be edited to say: "They are also exploring the option of taking food waste to either their composting facility in Zamora or the residential food waste facility at Redwood Landfill for composting once the compost operations receive proper permits."

Response: This change has been made.

### Page 11, VI. Analysis, Hauler Services, Marin Sanitary Service, Public Education:

\*The MSS Waste Characterization Study and the MSS Zero Waste Plan should be included in this section.

R3 Comment: Following the "Public Education" section is "Additional Notes". It is in this section that these efforts have been noted. The text reads as follows:

#### "Additional Notes

MSS is striving to achieve Zero Waste through multiple methods, which includes their partnership that was established in 2007 with iReuse. The purpose of the partnership is to reduce business waste through reuse and donation. The partnership will enable the facilitation of donation and sales of reusable materials and provide clients with tax-deductible receipts.

Beyond the collection services the company provides, MSS also promotes Zero Waste and strives to become a Zero Waste business. In 2008, MSS underwent a waste characterization study of its residential and light commercial loads to determine what materials were not being recycled by customers at the curb. They are using this data to re-target education efforts. The latest step undertaken by Marin Sanitary Service is the development of a Zero Waste plan for their facility and operations, and food digestion pilot programs."

### Page 16, VI. Analysis, Solid Waste Facilities:

\*Note should be made that Marin is relatively small and that MSS' facilities are at 40% of capacity. With the economy in a dramatic downturn it is questionable whether or not additional facilities are warranted.

Response: The first paragraph of this section has been revised to the following:

"The County has limited facility options for local diversion and disposal of materials. Tables 10 and 11 identify the current facilities used and their location. Marin Sanitary Service notes that their facilities are at 40 percent of capacity. With the downturn in the economy, capacity has increased, but it is uncertain what the capacity will be and if additional facilities are warranted once the economy rebounds. In addition, if the Member Agencies or franchise agencies require that the franchised hauler use a specific facility, there should be some form of tip fee rate oversight by a public agency."

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There were 12 landfills that reported receiving JPA waste in 2007, but over 98 percent of the disposal occurred at three sites: Redwood Sanitary Landfill (59.3%), Keller Canyon Landfill (24.7%), and Potrero Hills Landfill (14.2%)."

### Page 17, VI. Analysis, Solid Waste Facilities:

"As shown in Table 11, there are few local facilities that can handle diversion of food waste and Construction & Demolition materials."

\*This statement is inaccurate and Table 11 in not inclusive. Response: See above response to "Page 16, VI. Analysis, Solid Waste Facilities".

### Page 17, VI. Analysis, Solid Waste Facilities:

"...a significant portion of the material is being used as erosion control at Redwood Landfill that could be composted if facilities existed in the region. The option of local facilities may not be a limiting factor, but the facilities available for consolidating the material and transporting it is another aspect that must be addressed."

\*This statement is inaccurate.

Response: See above response to "Page 16, VI. Analysis, Solid Waste Facilities".

### **Page 18, Table 11:**

\*Marin Recycling Center (MRC) should be added to the Curbside Recyclable facility list. Response: Marin Resource Recovery has been changed to "Marin Recycling Center"

\*MSS Zamora Facility should be added to the Green Waste facility list.

\*MSS should be added as a partner to the CMSA under Food Waste.

Response: These Zamora is already included in the table under its formal SWIS name: Northern Recycling Compost. MSS has been notated as a CMSA partner.

#### Page 19, VI. Analysis, Solid Waste Facilities, Inerts:

\*It should be noted that the facility cited is a Waste Management, Inc. facility that operates on a regional basis and, as a result, may take in its own material first. Response: The section has been revised to read:

"Inerts that go to the facility are used as ADC or road base. Waste Management, Inc. (WMI) is in the planning stages to construct and operate a C&D facility to process and sell material. WMI intends to operate this facility on a regional basis, but as it is owned by Waste Management, Inc., it may take its own material first. Also see above response to "Page 16, VI. Analysis, Solid Waste Facilities".

There is also the concept of a "reuse center" that would be a buyback center for construction material. Permitting issues would need to be overcome before retail operations could begin. Regardless, salvaging material is intended to be part of the C&D facility operations."

### Page 20, VI. Analysis, Household Hazardous Waste Collection, Used Oil Block Grants:

"...curbside collection that is conducted by Mill Valley Refuse goes to the permanent HHW facility and does not get recorded separately....the main issue is that the County should have the information available to it to identify the program progress and opportunities for improvement."

\*This is inaccurate, it does get recorded separately and the information is available to the county.

Response: Our understanding from the JPA is that they do not have data that can be tied directly to Mill Valley or other individual programs. It may be that the "curbside collection" category is separate, but it blends jurisdictions. This comment should be discussed with the JPA.

### Page 20, VI. Analysis, Universal Waste:

\*Note should be made that MSS currently takes Universal Waste through the HHW facility.

Response: This sentence has been added to the second paragraph of "Existing Local Take-Back Disposal Options".

"Universal Wastes are accepted at the Marin County Solid and Hazardous Waste Permanent Facility and the Novato Recycling Center."

### Page 23, VI. Analysis, Existing Local Take-Back Disposal Options, Sharps:

Note should be made relative to the county tracking the collection and that this program is a result of the public/private partnership started in 1994 with the San Rafael Fire Department and the MRC.

Response: The first paragraph of this section has been revised to read as follows:

"As mentioned earlier, the County Department of Environmental Health manages the outreach in the County for the collection of home-generated sharps. This program is the result of the public/private partnership started in 1994 with the San Rafael Fire Department and the Marin Recycling Center."

### Page 23, VI. Analysis, Opportunities for Increasing Diversion:

"Based on feedback from the haulers, the residential green waste set-out rate is 70-80 percent and the residential recycling set-out rate is over 90 percent."

\*Note should be made that the MSS rate is 90-95% as per a JPA commissioned study by Jim Greco of Sacramento.

Response: A footnote has been added to this sentence: "The MSS rate is 90-95% as per a JPA commissioned study by California Waste Associates."

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### Page 24, VI. Analysis, Opportunities for Increasing Diversion, Wet and Dry Collection:

"One way of increasing diversion is to have the franchised haulers develop a wet and dry material collection route."

\*This suggestion is problematic. Cost is very high and, based on current programs with high diversion and participation, changing to wet and dry loads would not be fiscally prudent, nor would it generate much increased diversion for MSS customers. Response: Comment noted and each Member Agency would need to assess this option.

### Page 24, VI. Analysis, Opportunities for Increasing Diversion, Construction and Demolition Ordinance:

"Five have no provisions for C&D recycling...."

\*Note should be made that this fact is due to the MRRC providing the service. Response: Communities still need to adopt and ordinance regardless of using MRRC. This may result in more C&D material going to the facility.

# Page 26, VI. Analysis, Opportunities for Increasing Diversion, Construction and Demolition Ordinance, Limited Facility Options:

"An agreement with facilities to standardize clear and concise distinctions on weight receipts would be beneficial. Distinctions could include origin of C&D waste and potentially a note acknowledging the material has been accepted as C&D and will be recycled accordingly."

\*Note should be made that MSS is already doing this.

Response: The sentence has been amended to as follows:

"An agreement with facilities to standardize clear and concise distinctions on weight receipts would be beneficial; MSS reports that they are already doing this."

### Page 27, VI. Analysis, Opportunities for Increasing Diversion, Food Waste:

When the necessary permits are in place, which is anticipated to be in 2010, MSS will begin co-collecting residential, kitchen food waste in the curbside green waste can.

Additionally, a feasibility study has been completed, sponsored by PG&E, CMSA, the City of San Rafael, the City of Larkspur and MSS. It will allow for the development of a commercial food waste-to-energy, public/private partnership and eventual composting. This partnership will likely begin in mid-2010 from the restaurants and other points of food waste currently collected by MSS.

Response: These paragraphs were added to the end of the Redwood Landfill discussion.

"However, due to the air emission concerns, the landfill is limited to receiving a maximum of 30 tons per day of food waste. Whether the food can be mixed with the green waste or must be

separate, remains to be determined. Currently, lawsuits are preventing the composting operation from beginning.

When the necessary permits are in place, which is anticipated to be in 2010, MSS will begin cocollecting residential, kitchen food waste in the curbside green waste can.

Additionally, a feasibility study has been completed, sponsored by PG&E, CMSA, the City of San Rafael, the City of Larkspur and MSS. It will allow for the development of a commercial food waste-to-energy, public/private partnership and eventual composting. This partnership will likely begin in mid-2010 from the restaurants and other points of food waste currently collected by MSS.

Other facilities that may be able to accept the mixed food waste..."

### Page 29, VI, Analysis, Opportunities for Increasing Diversion, Green Waste:

\*Note should be made in this section that all MSS green waste is composted. Response: Text was modified as follows.

"Since there are no composting facilities within the County, the option exists to haul green materials to a transfer station. MSS reports that they are currently composting all green waste they collect. Table 18 below lists transfer stations accepting green materials within 100 miles of the City of San Rafael."

### Page 33, VI. Analysis, Opportunities for Increasing Diversion, Maximizing Diversion, Residential Collection Services:

Paragraph 2 does not make sense.

Response: Comment noted. The subsequent paragraphs clarify the compostables v. rubbish.

# Page 34, VI. Analysis, Opportunities for Increasing Diversion, Maximizing Diversion, Residential Collection Services:

"Changing the categories of materials collected provides a major opportunity to increase diversion."

Expected percentage increase should be noted.

Response: The percentage is noted in Recommendation #12 and Appendix B.

### Page 36, VI. Analysis, Opportunities for Increasing Diversion, Conversion Technologies, Biomass:

\*Note should be made that MSS is currently using biomass technology in the development of on-site fuel for MRRC.

Response: This sentence has been added to the section.

# Page 37, VI. Analysis, Opportunities for Increasing Diversion, Marin County Food Waste Anaerobic Digestion and Composting Pilot Projects:

Page 9 of 12

Regarding reference to Pacific Biomass, it should be noted that they only want green waste.

Response: Change made. "... undertaken by Pacific Biogas. The proposed organics (green waste only) digester is planned to be sited in Marin..."

# Page 37&38, VI. Analysis, Opportunities for Increasing Diversion, Marin County Food Waste Anaerobic Digestion and Composting Pilot Projects, Marin Sanitary Service:

\*The first paragraph should be edited to read: "In October 2008 Marin Sanitary Service initiated a bio-cell/bio-filter program for commercial food waste composting. In December 2008, Marin Sanitary Service began a commercial food waste-to-energy feasibility study."

Response: Change made.

\*Additionally, the numbers of restaurants and food markets served are incorrect.

Response: The sentence was removed in the absence of accurate numbers being provided.

"This material is estimated to be generated from the 237 restaurants and 12 food markets they service."

\*Third paragraph, first line "pilot" should be "study." Response: Change made.

\*Third paragraph, last sentence should be edited to read: "...or retrofitting the MSS transfer station."

Response: Change made.

\*To the benefits of adding food waste to the digestion process, the financial benefits as well as a reduced tip fee should be added.

Response: Bullet added:

Increased financial benefits and reduced tip fee;

## Page 41, VI. Analysis, Opportunities for Increasing Diversion, Consumption and Disposal Changes, Polystyrene (Styrofoam):

\*It should be noted that to be truly recyclable, BPI certification is necessary. Response: Footnote made.

# Page 44, VII. Recommendations, Phase I, JPA, #4. Help Solid Waste and Non-Solid Waste Facilities with Siting\Permitting Processes:

"The lack of the necessary infrastructure is the biggest constraint for the County to achieve high diversion programs that include green waste, food waste, and construction and demolition materials."

\*This statement is inaccurate and does not take into consideration the MRRC facility. Response: Comment noted. Also see above response to "Page 16, VI. Analysis, Solid Waste Facilities".

# Page 44, VII. Recommendations, Phase I, Member Agencies, #6. Revise Solid Waste Ordinances:

"However, the ordinances that regulate the hauler franchise agreements in some cases have not been updated for 45 years."

This statement is highly misleading and should be removed or modified to accurately reflect when agreements have actually, recently been updated.

Response: Comment noted; this recommendation pertains to ordinances not franchise agreements.

# Page 45, VII. Recommendations, Phase I. Member Agencies, #7. Revise Franchise Agreement Language:

Under "Specific diversion requirements" and "Overall tonnage collected" note should be made that these can change depending on the state of the overall economy.

Response: The franchise agreement diversion requirements should be based on the tonnage collected and therefore, not dependent on the overall economy.

\*It should also be acknowledged that many of the items listed in this section are already in place in MSS franchise agreements. In addition, there are a number of items listed that do not accurately reflect best practice, practices currently in place or the challenges faced by the hauler i.e. consumer responsibility, risk, cost, market considerations. Perhaps the recommendations should be presented in a matrix format identifying what items are in place and by which haulers.

Response: Comment noted; please note that the specific franchise agreements and specific language needed are not covered under the Feasibility Study.

# Page 48, VII. Recommendations, Phase II, Haulers (via Member Agencies), #12. Implement Wet/Dry Collection Routs:

\*This recommendation is already in place at MSS.

Response: Comment noted, please see response to page 24 MSS comment.

# Page 48, VII. Recommendations, Phase II, Haulers (via Member Agencies), #13. Offer Residential Unlimited Services of Recycling and Green Waste Containers:

"In the MSS service area, only San Anselmo has unlimited green waste collection, and in all service areas, residents [sic] only one recycling cart is provided."

\*This statement is inaccurate. Unlimited green waste collection is available in all MSS service areas.

Response: Statement is edited.

# Page 50, VII. Recommendations, Phase II, Haulers (via Member Agencies), #15. Add Food Waste Diversion to Collection Services (Residential and Commercial):

"Haulers provide customers backyard compost bins, kitchen pails, and education materials."

This should be edited to eliminate "backyard compost bins" since they are in violation of the current health and safety code and, actually, are found to increase greenhouse gas production in the urban setting.

Response: Comment noted, compost bins are for yard waste only.

## Page 50, VII. Recommendations, Phase II, Member Agencies, #18 Require Deconstruction/Salvage/Resale of Construction and Demolition Materials:

Note should be made that the county did a market study on this subject and found no incounty market.

Response: Comment noted; reference of the study name/date is necessary before making notation in the Feasibility Study.

# Loretta Figueroa

Almonte Sanitary District, Local Task Force Special District Representative From: Loretta Figueroa, Almonte Sanitary District, Local Task Force Special District Representative

To: The Marin County Hazardous and Solid Waste Management JPA

Date: October 10, 2009

Subject: Comments on the Marin County Hazardous and Solid Waste Management JPA (JPA) Draft Zero Waste Strategic Plan Development (The Draft Plan) dated August 2009 presented by R3 Consulting Group (Consultant) to the Marin County Local Task Force (LTF) on September 2, 2009.

1. On October 7, 2009, the consultant reported to the LTF that The Draft Plan had been revised by the consultant. This revised draft was not available for review by the LTF.

Response: Comment noted.

2. After The Draft Plan has been revised by the JPA, before final approval, the LTF should have an opportunity to review The Revised Plan and all comments submitted regarding The Draft Plan. The LTF should have an opportunity to make comments on The Revised Draft.

Response: Comment noted.

3. My comments will not include changes that might be suggested by a proofreader. Response: Comment noted.

4. Page 7 - I don't believe that the Novato Household Hazardous Waste Program is funded by an annual JPA Grant.

Response: Comment noted; correction has been made.

5. Page 8 – After "Member Agencies" add "Non-member Agencies".

Response: Text has been added to include Special Districts.

6. Page 38 – Extended Producer Responsibility (EPR): Should be expanded to include packaging, and 'cradle to cradle' recycling systems designed, financed, and managed by the producers themselves.

Response: Text has been added to reflect this.

7. The JPA is a regional agency. In some places in The Draft Plan the word Countywide should replace the word regional.

Response: Text has been changed where applicable.

8. Average diversion rates for the haulers ranges from 36.67% to 50.93%. The Diversion rate calculated by the CIWMB for 2006 was 72%, There should be an explanation for the difference between these two reported diversion rates.

Response: Only a portion of the diversion rate for the JPA area is derived from hauler collection operations. It also includes material back-hauled by stores for recycling, self-haul material diversion at landfills (e.g., beneficial use), recycling centers (source-separated collection by companies rather than haulers or self-haul), grasscycling, and other source reduction activities. In addition, construction material reuse and inerts were documented in the state-approved diversion rate.

9. The Draft Plan should address the fact that Marin County has the highest per capita waste generation in the state. And "Accordingly, over the past 14 years,

while diversion has increased dramatically, actual disposal has remained relatively flat."

Response: Comment noted and text has been added.

- 10. In light of SB 1016 The Zero Waste Goal should be restated as a "reduction in per capita disposal" goal instead of an "increase in diversion" goal.Response: The goal definition has been revised to include waste prevention.
- 11. Page 6 The <u>www.marinrecycles.org</u> website needs to follow through on the improvements described by Staff.

Response: Comment noted.

12. Page 39 – Progressive Can Rates – The Almonte Sanitary District has had progressive can rates since 1992. I'm not aware of any problems with residents putting garbage in the recycling containers. The hauler may have different information.

Response: Comment noted.

13. Page 40, Tables 19 and 10 – Are the rates listed for on month? Are the rates listed for garbage only or do they include green waste and recycling? What are the rates for green waste and recycling? Are all haulers included in this table? I can't find the list of "Unincorporated Franchise Areas 1-6".

Response: Rates are listed for one month and include various services provided by the different haulers.

From: Loretta Figueroa, Almonte Sanitary District,

Local Task Force Special District Representative

To: The Marin County Hazardous and Solid Waste Management Authority

Date: November 10, 2009

Subject: Comments on the "Final Draft Waste Feasibility Study" dated October 2009

### Comment #1:

Many References to "Member Agencies" should read "Member Agencies and Non-Member Agencies".

### **Example:**

### Page ES-1

On a countywide basis, the Member
Agencies, Non-Member Agencies and the JPA have successfully implemented programs to comply with the Integrated Waste Management Act's (AB 939) requirements of diverting from landfill 50 percent of waste generation.
As a regional agency, comprising of all the communities in Marin County, the JPA reports diversion progress to the California Integrated Waste Management Board (CIWMB) on a regional basis.

### Comment #2:

I suggest that the term "Green Waste" be replaced with "Garden Organics" or "Garden Compostables" or something similar. I also suggest that the term "Food Waste" be replaced with "Food Scraps" or something similar.

Response: Comment noted. The term "food waste" is being used in this report because it is standard terminology in the industry.

I question if there is any evidence to support the conclusion that a 68-gallon green can is a disincentive to diverting "garden organics". Is there evidence of "garden organics" being disposed of with the solid waste? If "garden organics" are being composted in a resident's backyard they're being diverted from disposal.

Response: Comment noted. The intent was to note that larger containers would provide greater opportunity to divert material rather than having people place organics in the trash container who do not request an extra container. Marin Sanitary Service's waste composition study provided data that organic materials are being disposed (see Figure 1 and Table 9 in the report).

The Almonte area of the Mill Valley Refuse Service area varies from flat to very steep driveways and many if not most residents would find a filled 96 gallon container unusable

because of it's weight. In any case, the "can size issue" will be resolved if the 68-gallon green can is picked up weekly rather than bi-weekly.

Response: Comment noted and text has been added to Recommendation 13. Having the option of a 96 gallon container is a suggestion; a smaller container size could still be offered and selected by residents based on need and driveway considerations.

Mill Valley Refuse Green Can Service is flexible and is not limited to the green can:

In addition to the 68-gallon green can residents may also place one (1) tied bundle of cuttings two feet by five feet (2ft x 5ft) next to the can for pick-up.

Or, instead of the green can, residents may put three (3) tied bundles two feet by five feet (2ft x 5ft) at the curb on the scheduled pick-up day.

Unlimited curbside collection of "garden organics" could potentially include removal of 200-foot eucalyptus trees felled by a winter storm!

### Example: Pages 49/50

Mill Valley Refuse customers in the Homestead area have the option to decline green waste service because they compost in their backyard. It is unclear how much green waste is being disposed by Homestead residents, but regardless, those with services are limited to 68 gallons and are charged \$3 for each extra can. This smaller container size and fee for extra service is a disincentive to diverting green waste material.

Estimated Diversion: 7,300+ tons per year in combination with other programs

Steps to Achieve:

Haulers should provide option of extra free containers for recyclables and green waste.

Jurisdictions could require hauler to provide unlimited collection of green waste.

Mill Valley Refuse should consider increasing green waste collection to at least 96 gallons and eliminating the extra container charge.

Response: Comment noted. In the Franchise Agreement, there could be similar restrictions as to the size and bulk of tree trimmings as noted as currently existing. Regardless, the intent of "unlimited" curbside collection is to remove the potential financial barrier to request an additional cart when a property regularly generates more material than the "free" services accommodate. People are still disposing of organics and this can be one way of encouraging additional diversion.

### Comment #3:

Onsite aerobic composting, vermicomposting, food scrap digesters, or black soldier fly composting may be more carbon neutral than recycling programs that divert materials to a "regional facility".

Response: Comment noted. Backyard composting is still a recommendation of the study (Recommendation 17).

# David Haskell

Member JPA Local Task Force on Solid Waste

Submission of Zero Waste Strategy Plan 2009, David Haskell, Member JPA Local Task Force on Solid Waste

### To dispel any doubt as to what Zero Waste is .......

In one sense, it really isn't that difficult. Zero Waste means that there isn't any waste. No garbage! No throwing anything away in a pit in the ground! No burning things just to "get rid of them". Everything is reused. On this level, the concept could hardly be simpler."

Dr. Paul Palmer, Author: Getting to Zero Waste

### Zero Waste .....

- Eliminates rather than just "manages" waste.
- Is a whole system approach that aims to completely change the way materials flow through society.
- Is a unifying concept or "brand" for a basket of existing and emerging technologies aimed at the elimination of waste.
- Resets the compass with new tools and new ways of thinking so that normal, everyday activities contribute to the solution rather than the problem.
- Is a way to transform the current cost-plus waste industry whose existence is dependent on the destruction of more and more resources, into a value-added resource recovery industry.
- Redesigns the current, one-way industrial system into a cyclical system modeled on Nature's successful strategies.
- Helps communities develop local economies, sustain good jobs, and provide a measure of self sufficiency.
- Ensures that products are made to be durable, reusable, repairable and are bio-compatible (Nontoxic).



### **ZERO WASTE**

Has concrete goals

Is a single call to action

Engages the community psyche

Predicts and helps redesign the future

Creates the climate for continual improvement

Out-competes traditional waste disposal methods

Services a new sustainable economic model enabling markets to drive the change

Introduction to Submission: I wish to offer a new vision. I am suggesting a new way to look at managing our county's discarded resources with an eye to getting as close as possible to the destination of Zero Waste. It is a journey – a rallying cry – to our citizens to reduce their environmental impact on this planet. The Zero Waste Strategy Document lost in the paradigm of diversion. Sadly recycling has become the new garbage – recycling a single use item is not an environmental virtue.

I am suggesting a new framework for achieving Zero Waste – it has four operational divisions working under the umbrella of a new organization – Let's call it "Waste Free Marin" – Specific recommendations on the Rawles/Frost /3H Waste Strategy document follow these brief divisional descriptions.

### #1 Priority: Zero Waste Professional Services

Objective: To provide program administration, technical assistance, social marketing / public education and effective management of JPA Programs.

- To provide on-site *resource assessment audits* and development of Zero Waste Action (ZAP Plans) Plans with clients ensuring the provision of the plans are coupled with cost effective finance options for Marin public sector agencies, homeowners and business consumers.
- Ensure the residents and businesses have the knowledge and wherewithal to practice waste reduction and source separation to reduce all volumes of material use.
- "Business Partnership Program" to work with businesses to reduce waste & manage haulers to reduce costs. Working directly with public sector organizations to reduce both waste and costs.
- Develop social marketing campaign partnering with businesses and local non-government organizations to promote Zero Waste everywhere!

Response: Most of these programs are handled on the Member Agency level and can be implemented through franchise agreement requirements. The JPA could have an active role in conducting public education for Recommendation 10.

### #2 Priority: Zero Waste Infrastructure Services

Objective: Make doing the right thing easy all the time!

The following is a partial list of potential services /facilities that are required to help consumers and businesses "do the right thing". These facilities/services are essential for progress.

Sustainable Packaging Collaboration
Product Service Systems Developers
Resource Recovery Parks
Deconstruction Services
Construction and Demolition Yard
Extended Producer Responsibility /Industry Take Back Programs
Office Cycle Program
Restaurant / Food Discard Program
Organic materials separation, collection / marketing
Mixed & Single Stream Recyclant Collection
Bulk Inorganic Collection

Refill Shops
Repair Mall & Reuse Park
Hazardous and Toxic Mitigation Program
Waste Exchange Data Base for Marin Businesses
Commercial Worm Composting (decentralized by neighborhood)

Response: Comment noted. Most of these fit into the new program Recommendations 2, 4 and 17.

#3 Priority: Waste Free Research and Development

### Objective: To work smart and be the best we can be

- Identification of Community Environmental Investment Priorities & Criteria
- Work with Industry and Commerce to design and foster introduction of waste free products, packaging and processes.
- Ensure regional business have access to state-of-the-art reuse and repair information and technologies
- Work in collaboration with public policy agencies to foster the effective operation of the market and ensure public policy supports the rapid uptake of cost effective zero waste practices and technologies consistent with technological and industrial capacity to integrate new practices.
- To monitor programs and investment projects of Waste Free Marin to ensure effective and efficient operation.

Response: Comment noted. These recommendations align with Recommendations 2 and 10 of the study.

# #4 Priority: Waste Free Economic Development & Finance Objective: Financial investment in resource efficiency & infrastructure

- \* To administer a revolving loan fund/program to qualifying zero waste projects identified by the Waste Free Professional Services and or other professional organizations Contestable fund to also help set-up infrastructure services.
- \* In collaboration with federal, state and regional organization to ensure that a plan is developed to ensure that there is adequate capital made available to homeowners, businesses, public sector agencies to foster rapid market adoption of resource efficient practices and technologies.
- \* To work with Marin Economic Development Agencies to foster development of new waste free enterprises and to create new sustainable employment opportunities.



Response: Comment noted. This recommendation requires more JPA authority/Member Agency cooperation which could result out of Recommendation 2 of the study.



### Our Wasteburg Problem



For every can
of garbage
placed at the
curb an
equivalent of 71
garbage cans
of wasted
resources were
in-directly
"thrown away"
in its creation."

"CO-emission not included **Zero Waste Keys for Marin Businesses & Residents** 

Collaborative Programs to make a Difference

Promote Economic - Environmental Prosperity

- Research and Development
- Economic Development
- Create New Green Jobs

**STOP WASTING MONEY AND RESOURCES** 

Recommendations for Marin County JPA – Comments of Zero Waste Strategy 2009

Background for Recommendation #1.

The Zero Waste Strategy document produced by JPA County Public Works Department staff reflects a mind-set mired in the past for the following reasons:

 The Rawles/Frost/3H strategy makes scant attempt to reduce the "ecological footprint" of Marin County. They do not address mitigation of environmental impacts of waste generation and handling. (The prime reason for a Zero Waste Strategy)

Response: Comment noted. The focus is on achieving the Zero Waste goals established by the JPA for 2012 and 2025.

2. Strategy's failure to recognize the economic realities of our time to re-vitalize our country's economy with new vision – new green collar jobs leading to economic viability and environmental sustainability.

Response: Green jobs are recognized as an element to achieving Zero Waste. The recommendations are intended to provide programmatic framework for achieving waste reduction and diversion. A key component of this is Recommendation 4.

3. Failure to recognize that the old paradigm of Garbage Trucks, Transfer Stations, Diversion and Landfills will never be a part of a Zero Waste solution -- It is the source of the problem rather than the solution.

Response: Recognizing long-term that waste prevention is essential, programs will gradually create this shift.

Recommendation #1> JPA to phase-out and replace Marin County DPW's role in planning and managing Marin County's Zero Waste Policies. The existing set of skills related to sanitary/civil engineering are no longer relevant to the social marketing / public education / economic mandates required to secure an environmentally sustainable economy in Marin County.

Background for Recommendation #2 > New Vision New Players Required:

Attached to this submission is an abbreviated new "resource management" vision for our county's residents and businesses to efficiently and effectively manage the resources it purchases and consumes. This new vision does not rely on antiquated concepts of waste generation, collection and hauling. Instead, it recognizes that the challenges for a "Green Energy Future" are the same set of challenges for a "Green Resource Future". Solutions in the future will never again be from the old toolkit of big old garbage/recycling trucks making things sanitary (e.g. sanitary landfills – sanitary services) so as to protect the public health. That is a 1950's 20<sup>th</sup> century concept that worked to protect health from disease but has no role in a world caught up in the challenges of Climate Change. Instead, the vision is about creating new economic activity that will make it easy for business and residents (Zero Waste Advisors) to do the right things. (Zero Waste Infrastructure Services) – It recognizes that it is people – businesses and residents working together to reduce their environmental impact that will make Zero Waste real. This challenge will require social marketing professionals to create and lead campaigns focused on behavior change and ensure that people have access to good information. It will require a new set of professional resource managers who can assist companies and households to make wise, cost effective waste free choices.

Response: Comment noted. Public education will be a significant effort necessary to encourage short-term and long-term waste reduction and reuse. Most recommendations made on the study include a component of public education in addition to Recommendation 10.

#### Recommendation #2:

JPA appoint a Commission to review present Marin County Hazardous Household and Solid Waste Planning Strategy, review best practices in successful agencies, and make recommendations to relocate the responsibilities in a county department and/or contract agency that focuses on community economic development, climate change mitigation and reduction of environmental and social impacts as its primary mission.

Response: Comment noted.

#### Recommendation #3

Support the strategy report's call for JPA reform – from the bottom up.

Response: Comment noted.

Submitted by:

David Haskell

JPA Local Task Force Member

Oct. 9, 2009



# Judy Schriebman

Comments on the Draft Zero Waste Strategic Plan Paper Oct. 13, 2009

1. As a writer, I find an extremely troubling aspect of this report is its initial heavy emphasis on the term *diversion* rather than *waste reduction*, which is what is truly necessary to get us to zero waste. "Diversion" implies moving things from one pile to another, as one would divert a river or a child. It does *not* mean reducing or actually stopping the flow. So diversion, like recycling, while a part of getting to zero waste, is *not* the overarching concept/method/way of thinking that is necessary to move Marin County from a state of affluential unconsciousness to one of true sustainability. We need a radical restructuring of almost everything we do, not a diversion.

We need to convey this critical new way of thinking from the very beginning of the document and not skirt the issue. The planetary situation is dire. We are producing more, and throwing away more, of a variety of plastics, toxic chemicals and pharmaceuticals that have an infinite shelf life as they accumulate in the environment, in the bodies of dead sea birds, water supplies, and breast milk. We are killing ourselves with our trash.

If we have learned nothing else from the radical right, we have learned that framing an issue is at least as important as the data and this document at the outset is framed very, very badly. While it may be technically accurate, "diversion" is a poor word choice for communicating the important concept of zero waste to others outside of the field. In addition, the sheer number of repetitions of the word "diversion" in the first five pages produces a state of mental numbness near to catatonia. This is too bad, because the data, charts and the recommendations that come afterward in this report are very good.

By p14, the report clearly states that for the JPA to reach the Zero Waste goals, the focus must be on *reducing the materials disposed*. I would suggest that we substitute the words Waste Reduction, Waste elimination, Zero Waste goals and/or Sustainability for most of the diversion word choices, except where the context is actually talking about diversion, as in bullet point 7 on page 3.

Response: Comment noted. Changes have been made where applicable.

2. Introduction (p2): add in the fact that we are still producing more waste per capita now than ever and than most places in the world.

Response: Comment noted. Sources would need to be provided in order to add this to the study.

3. Zero Waste (p2) can be described in much better terms. It's actually a fairly straightforward term than most anyone can understand as is. It means no more garbage; no more throw aways because we have come to recognize that there is no

"away" any more. The goal of zero waste is also fairly straightforward. It means nothing that cannot be reused, recycled, composted, reformed, or remade into something useful will be allowed to be made, sold, produced or brought into this county, because it's not going to be landfilled, shipped to the third world to be dumped, or "outsourced" to the environment. This is a fairly radical proposal. Getting to zero waste means developing and implementing policies and programs that promote product redesign to *eliminate* toxics, excess wasteful packaging, and implementing a cradle-to-cradle lifecycle for everything bought, sold, brought into or produced in the county. It means limiting our choices to things that sustain life and don't destroy it.

Response: Comment noted. The definition provided in the study was intended to be concise and encompass the objectives of the JPA. The definition can be tailored to specific goals of individuals and jurisdictions when implementing recommendations or developing new programs.

- 4. Impediments (p3) first line has a typo or missing word or something. Response: The sentence has been revised to read: "The Member Agencies and Special Districts (e.g., Sanitary Districts) in the JPA have a wide variety of programs that are intended to promote waste reduction, the recycling of products, and result in reducing the amount of material disposed."
- 5. First paragraph (p4) is another place we could insert the nasty fact that we in Marin are still throwing away more stuff per capita than ever before, than most places on earth. Actual disposal, in other words, has remained both flat and very high on a per capita basis.

Response: See response to Comment 2 above.

- 6. Second paragraph (p4): The word "mitigated" has the connotation of being smoothed over, pushed under the rug, lessened, toned down or diminished. I think these obstacles or impediments will have to be fixed, eliminated, or changed so that they no longer exist as impediments. Anywhere the word "mitigate" is used to mean "lessen," when our stated goal is zero, needs to be changed to reflect our intention. Response: The sentence has been revised to read: "In order to meet the Zero Waste Goals, several major challenges must be addressed that affect program development and implementation."
- 7. Bullet points 1 and 2 (p4): Change "increase diversion" and "diversion-based agreements" to "reduce waste" and "waste reduction-based" agreements. Response: "Waste reduction" has been added to the bullets. The word "diversion" is still a key component to achieving Zero Waste and, therefore, has not been removed.
- 8. The JPA, with its limited ability to implement change (p4, bullet point 1), has been under the auspices of the Dept of Public Works for many years but this may not be the best fit any more. Based on the information presented on p 5, it would seem that the Community Development Agency is now a more appropriate agency to take on this task of driving the county and its member agencies to Zero Waste. They have a

sustainability team, which is directly linked into those programs that are already being implemented to get us there.

Response: Comment noted. The focus is on authority rather than departments. This is not to imply that improved interaction with efforts being undertaken by other departments is not needed (see Recommendations 1 and 2).

9. Progressive Container Rates (p39). It is stated that all areas have progressive rate structures. This is not accurate in the area of LGVSD served by MSS where the 20 gallon can rate is still higher than the 32 gallon on a per gallon basis. I believe this is the same in other areas as well. We are hoping to move to a real progressive can rate where larger trash cans are charged on a percentage basis more than the smaller ones, to reward those individuals and families who do not produce as much trash.

Response: Comment noted. Progressive rates are based on having customers pay a higher dollar amount for more waste disposed (larger garbage cats/bins). This can be done as a percentage, a dollar amount, or on a volume basis.

Member/contracting agencies can adopt rate structures with larger differences between cart/bins sizes, and this could be negotiated between with the haulers and member/contracting agencies. In LGVSD, in actual dollar amounts, the 20 gallon rate is \$3 less than the 32 gallon rate, so it is considered a "progressive" rate. LGVSD can adopt progress rates that have larger differences between cart/bin sizes.

There was a lot of work and data gathering and thought that has gone into this report. The above changes I think will make it a stronger document and give a better structure to that work. I look forward to reading the next draft.

Sincerely,

Judy Schriebman 415-472-3345

# Bob Brown

City of San Rafael

From: Bob Brown

Sent: Saturday, October 24, 2009 11:16 AM

**To:** Ken Nordhoff **Cc:** Bob Brown

Subject: Draft Zero Waste Strategic Plan

Ken: Here are my thoughts about the Draft ZW Plan:

1. First, I think it's generally well written, informative and an appropriate level review. I enthusiastically support most of the recommendations and would be willing to play a more significant role next year in moving any of this forward.

Response: Comment noted.

2. I was disappointed that there wasn't a written section on financing. The attached table lists optional funding possibilities, but it's inadequate to develop a funding mechanism, which must coincide with or even precede the Phase I work. I also think the report would benefit from an analysis of implementation timing for the two phases that could occur from differing levels of funding so we'd have a sense of how realistic the attainment of the 2012 and 2025 goals are.

Response: Section VIII presents the potential funding options that can be adopted by the member agencies or the JPA. This study is a general policy document that outlines potential policies and programs.

3. I'd also suggest that there be a bit more analysis based on the attached table identifying which of the strategies yield the biggest bang-for-the-buck, dividing the estimated tonnage of diversion by the estimated program implementation cost. My casual review of the table indicates that a few of the programs have much more significant return, and possibly these should be prioritized. The most cost effective measures should be highlighted in some way (a top 5, as we did in the CCAP).

Response: An additional table is included in Appendix B. The estimated costs and diversion is presented on a regional basis for planning estimates.

4. In terms of comments on specific recommendations, I'm pleased that they attempted to estimate implementation and enforcement costs for the various member agency responsibilities. Many of the responsibilities attributed to member agencies, such as revising solid waste ordinances, creating mandatory recycling ordinances and renegotiating franchise agreements would benefit from a mutual effort, utilizing common consultants. But there also has to be an identified funding source other than General Funds or this work will never be done in the timeframe necessary.

Response: It up to the individual MA and JPA to identify the funding source for the programs they adopt. Generally, solid waste programs have been funded through General Fees. Please see Section VIII for the identified **funding sources available.** 

5. Rec. 8: C&D Ordinance: I keep pushing the County to complete their work on this and take a leadership role with the other cities. Now that the green building ord. is heading towards adoption (through the BERST program efforts countywide), we'll need a common enforcement/verification mechanism, since the proposed residential and commercial rating systems both require 50% material diversion. I have a call into Brian Crawford on the timing of their work. In terms of the Draft Plan, I don't anticipate anything in terms of implementation costs on our end, either initially or ongoing. It will just be another task for our permit techs, but we can easily accommodate it. We'll all probably copy the County ordinance and procedures, so I don't know what other initial costs will be involved in creating the verification system. The report should lower both the initial and ongoing costs for this measure.

Response: The actual implementation costs for this program may be significantly lower. But, please keep in mind that a Member Agency or the JPA will need to staff it. In Phase II of the

plan there will be further refinement of the costs; at that point the costs may be lower. Phase II development being planned with the JPA. Enforcement is the main issue and this happens at the permit level and at C&D facilities. Until a specific program is adopted it is difficult to determine a more specific cost range.

6. Rec. 9: Multi-Family and Commercial Recycling Ord.: The ongoing cost estimates for this responsibility are underestimated for most jurisdictions. Since we have apartment and commercial inspection programs already, this additional responsibility will be no big deal, just another couple of items to verify. Cities/towns without an existing program taking them into all these buildings will have to create one, or contract for one, and if this is the only purpose, it will cost a lot more than \$5K per year (we spend a few hundred thousand \$5 on both programs, but they're funded by other means).

Response: The cost presented in the study is just for the ordinance adoption. The cost for program implementation will be born from the franchise haulers, rate payers and any rate increases. Program implementation costs are encompassed in all the other Phase II recommendations. For example, revising the franchise agreements, wet/dry collection, adding organics, etc.

The duty of enforcement can be an element/combination of additional City staff, code enforcement, or the hauler program manager. The intent of the multi-family and commercial recycling ordinance is to increase the accessibility to recycling programs and recovery programs.

Let me know if you have any questions about these comments, or want to go over your thoughts. BB

# Ken Nordhoff

City Manager, City of San Rafael

From: Ken Nordhoff [mailto:Ken.Nordhoff@ci.san-rafael.ca.us]

Sent: Friday, October 23, 2009 1:31 PM

To: Soulard, Alex

Cc: Frost, Michael; Bob Brown

Subject: RE: 10/29/09 JPA Board Agenda

Alex – while fresh on my mind, here are a few specific comments on the draft ZWP (a new acronym⊕)

1. From our Wednesday review:

a. You need to consolidate the education efforts in some way. This would include those in the goals, as well as capturing costs and staffing as appropriate.

Response: Public education efforts cross many recommendations and are program specific. The programs identified below highlight where JPA can assist on countywide level in addition to other efforts undertaken by the Member Agencies or franchised haulers. It is anticipated it would cost approximately \$120,000 for one full-time-equivalent JPA staff or external contract to a firm to administer the public education services. This is in addition to any public education efforts done by Member Agencies to support efforts and related printing/media costs. It's important to note that these costs are dependent on whether Member Agencies adopt the program and give the JPA authority to administer the public education.

- Reduced consumption education
- Extended Producer Responsibility
- Wet/dry commercial collection
- C&D ordinance
- Food waste
- Countywide sales bans
- Salvage of materials/deconstruction, etc.
- b. Also, you need to separate out those goals that are within the current JPA authority, and those that would require some modification of the current JPA agreement (meaning scope of authority regarding ZWP goals at our JPA level). A third grouping clearly remains that requires local agency action (e.g. franchise agreement amendments).

Response: The text has been clarified and the recommendations are categorized by the lead entity that should be responsible for implementation (e.g., JPA, Member Agencies and haulers). Table ES-3 also breaks out responsibilities for the recommendations. While the JPA has a range of authority through the JPA agreement, program implementation is out of the "basic minimum programs" Section 6.1 allows the JPA to perform. In addition, Section 6.2 (Agency Election to Participate in Authority Programs) requires the "formal action of their governing boards to choose whether or not they wish to participate in and fund programs to be developed by the Authority". This aspect is where current attempts to have model ordinances adopted have fallen short.

Section 6.1 basic authority includes:

- Administration
- Planning
- Monitoring and reporting

- Compliance review
- Legislation review

Section 5.2 additional authority that **could** be given to the JPA if Member Agencies choose (not limited to):

- Adopt ordinances and resolutions
- Acquire hold and dispose of property
- Monitor performance
- Levy and collect fees and charges
- Issue bonds
- Implement programs

### 2. Now to specifics:

a. Page ES-3 — It should be made clear that a Phase I goal could include more JPA Exec Comm. or Board meetings, but that would be tied to the other goals and defining which take JPA time and resources (see 1b above). It may also be helpful to make clear if sub-committee and task forces could be established to assist in this work as well. This goal may also need refinement if noted later in the report.

Response: The text has been clarified to read:

The increased meetings would be tied to defining the goals of the JPA and any associated staff and time needs. The increased communication could lead to improved partnership with Member Agencies and more effective implementation of programs. The Board of Directors may wish to consider developing a subcommittee to address the goals of this recommendation.

- b. ES-4 not sure why 'another method regarding multi family and commercial recycling is repeated in the ordinance update and franchise agreements. Do both require the same change, or would one suffice.
   Response: These are two different recommendations. Recommendation #6 is for the establishment of a multi-family and commercial recycling ordinance that would establish the service threshold that requires business compliance and identify targeted materials. Recommendation #7 is suggesting that franchise agreements require additional diversion processing of all collected materials from these sectors prior to landfill disposal. The recommendations could be combined depending on the jurisdiction's preference, but keeping the requirements separate will provide the jurisdiction more flexibility in changing requirements through the franchise agreement.
- c. Page ES-5 goal of offering additional recycling and waste containers should note some agencies and haulers already do so, others should join in.

Response: The text has been clarified.

d. Table ES-3 – use of term disposal fee, and in other areas, AB939 fee – should be consistent or define somewhere in documents.
 Response: 'Disposal fee' has been changed to 'AB 939 fee'.

- e. Phase II table ES 8-9 there should be some notation about the source or data used for the proposed rates increases for programs 12-17.

  Response: A notation will be added. Sources used include discussion of the program options with current haulers, and reviewing procurement and negotiations with jurisdictions throughout California (e.g., South Bay Waste Management Authority, Castro Valley, Monterey County, Windsor, Piedmont, Dublin, San Ramon, Rolling Hills Estates, Rancho Palos Verdes, Benicia, and Lomita.
- f. Page 5 of report all cities and the County have been involved with BERST a multi-agency collaboration is under way to work on green building ordinances, and some piece of a C&D ordinance. The link is here: <a href="http://www.cityofsanrafael.org/Assets/CDD/Planning/BERST+Intro+Presentation.pdf">http://www.cityofsanrafael.org/Assets/CDD/Planning/BERST+Intro+Presentation.pdf</a> It may be worthwhile to include this as part of the leadership effort on waste reduction and reuse. Bob Brown on my staff (485-3090) is an excellent resources fro BERST details.

Response: This program has been added to the text.

I offered some highlight changes in the executive or summary areas. These goals may also need refinement if noted later in the report.

Ken Nordhoff City Manager City of San Rafael 415-485-3055 (w) 415-459-2242 (f)

# Sustainable San Rafael

# Submission to the Marin County Solid Waste JPA's RE: Draft Zero Waste Strategic Plan Development (ZWSPD) Submitted by Sustainable San Rafael - Nov. 9, 2009

The Zero Waste Strategic Development Feasibility Study presented to Marin County Hazardous and Solid Waste Management JPA by its staff at the Marin County Dept. of Public Works (J. Rawles, Contract Manager, M. Frost JPA Staff Manager and R3 Consultants) is a major disappointment.

The report nevertheless has merit particularly with regards its recommendation to reform existing franchise agreements and the call to reform the JPA structure itself. However the recommendations for reform are short on detail and fail to address how the reforms could be enacted.

The report further brings into stark relief the profound professional shortfalls of the County of Marin's Public Works Department when it comes to the technical requirements of managing waste minimization programs. The report provides little in the way of a strategic vision or framework for moving forward. It has a mish-mash of recommendations that are far from coherent.

What the report does make clear using 2006 figures is that:

Marin County citizens paid an estimated \$176,215,000 to have 620,400 tons of waste requiring collection, transport, sorting, baling, diversion and/or disposal.

This explosion of waste handling volume **represents a doubling of waste materials** requiring handling over a single decade. This cost and ecologically disastrous growth happened during a time when Marin politicians were trumpeting high diversion rates. Sadly, recycling has become the 21<sup>st</sup> Century's biggest waste!

- Strategies focusing on diversion from landfill are not working.
- Recycling single use products and packaging is not a virtue.
- Shipping our recycling wastes to China to get more low-value disposable products and packaging is a failed strategy.

This is why the citizens of Marin have called for a new Zero Waste Plan. Sadly, the County's Department of Public Works JPA project managers have failed to recognize that past "diversion-policies" have not worked. The approach taken by the Dept. of Public Works in guiding 3R Consulting Group is deeply flawed and needs to be redressed before any coherent integrated waste reduction program is developed for Marin County.

The study is flawed for the following reasons:

1) The study's preponderant attention on diverting waste from landfill fails to address our county's preeminent need to reduce our global ecological footprint by mitigating the adverse environmental impact of our county's unsustainable levels of material consumption.

Response: Comment noted. The short-term is focused on diversion, but also begins the public education of waste reduction to the general public. Waste reduction will have a long-term impact on waste levels and ignoring diversion also ignores its important role in achieving Zero Waste. Recommendations 5 and 9 address reducing consumption and reuse.

2) The study's deficient focus on zero waste, source reduction, reuse and waste minimization strategies has resulted in a series of piecemeal recommendations that are unfocused and confusing, and only serve to perpetuate our present unsustainable waste systems status.

Response: See response to Comment 1 above.

3) The Study fails to recognize that it is a public service manager's prime responsibility to operate economically efficient services. The study pays scant regard to the lowering of overall ratepayer costs.

World-wide Zero Waste Strategies have led to dramatic lowering of cost for businesses' and householders' waste disposal/recycling services. The estimated cost of \$176M for delivery of Marin's waste services are not fixed costs. These costs can be radically reduced by adoption of effective waste reduction strategies. The Dept of Public Work's/3R suite of recommendations fails to include ratepayer cost savings programs.

Response: The focus of the study is the "feasibility of Zero Waste". The study includes "upstream" programs to reduce costs along with progressive rates and cost-effective diversion programs

4) It is time for the public sector, especially Marin County's Department of Public Works, to stop viewing "waste recycling and disposal" as a cost-plus cash cow!

JPA Member Agencies (County and City government) have gotten used to raising waste franchise services rates year after year because the Member Agency (MA) claws-back 15% of the overall franchise fee that goes into their general fund.

All 20 franchise agreements in Marin County are exclusive, meaning that the waste provider has a monopoly - consumers have no choice. With the sole exception of Tam Valley Community Services District, which operates its own services, every franchise contract is cost plus. Waste haulers and Member Agencies have a perverse incentive to INCREASE the cost because the more they charge the more they each make. Householders and businesses, even if they have no waste at all requiring collection, still pay for the service. It is a cost plus vicious

cycle with the ENVIRONMENT and local RESIDENTS /BUSINESSES picking up the bill. It is time organizations representing rate payers and the environment stand up and say enough is enough!

Waste Haulers – City Governments – County Government and the County Public Works
Department are all the beneficiaries of our present unsustainable, cost-plus system! The
County Public Works Department/3R's suite of recommendations following a business as usual
strategy, could result in a 31% increase in ratepayer waste service costs!

Response: Comment noted. Each contacting entity (Member Agencies and Special Districts) has independent authority in developing requirements for haulers. This includes rate structure development, program requirements, promoting waste reduction, etc. Recommendation 7 is intended to have the contracting entities address the above mentioned concerns (e.g., rate structure, hauler compensation, Refuse Rate Index).

5) The key failure, in the opinion of Sustainable San Rafael, is that the County Department of Public Works (DPW) / 3R report not only fails to identify coherent market driven programs to incentivize resource conservation activities and wise mindful consumption; it further fails to address how a properly functioning waste market can be established in Marin. (Properly functioning markets allow for consumer choice.)

NOTE: The "Marin Waste Market Place" system can be likened to a big tangled knot. In order for Marin County to successfully make an "Ecological U-Turn" that starts reducing our collective ecological footprint, this knot needs to be untangled. This knot in large measure is caused by two factors: 1) a multiplicity of differing monopoly franchise agreements and 2) the long-standing political loyalty and patronage enjoyed by the county's waste industry.

Response: See response to Comment 4 above.

In order for substantive progress towards Zero Waste, there needs to be a recognition that JPA Member Agencies and their associated monopoly waste hauling franchise holder need to agree to untie this knot and begin looking at ways the system can evolve so it stops rewarding wasteful consumption and starts rewarding resource conservation. In short – residents and businesses must be able to receive positive financial rewards for lowering their need for centralized franchise waste services. If a household or business reduces their discarded materials (be it material that requires disposal, recycling and or composting) they need to be rewarded for those efforts. It is as simple as setting-up a waste service market that recognizes that less wastes equal less cost.

Response: See response to Comment 4 above.

Therefore any Marin-wide Zero Waste Strategy needs to address two questions: 1) What zero waste programs can be effective in the short-term without modifying existing franchise

agreements and 2) What modifications to existing franchise agreements are necessary over the mid-to-long term to ensure success of Zero Waste programs.

The DPW/3R document does not adequately address this conundrum ... this untying of the knot. Although to its credit, it at least recognizes that the JPA and franchise agreements need reform.

Response: Phase I (Recommendations 1-10) can be implemented in the short-term without franchise agreement reform. Phase II (Recommendations 11-17) could be considered long-term, because of the revisions to franchise agreements necessary, but that does not mean that the revisions to the agreements could not take place while Phase I recommendations are being implemented. It will be up to the Member Agencies and Special Districts to take action on these recommendations. Also, see response to Comment 4 above.

Offered below is an **example of a market driven zero waste program** that could be effective if franchise haulers' agreements included clauses that mandated them to modify their services levels (amounts changed) predicated on the individual service required by a business or householder.

For example, DPW/3R recommendation #17 seeks to promote backyard composting. This is a recommendation Sustainable San Rafael supports 100%. However, the approach taken by the DPW/3R is fatally flawed. DPW/3R suggest consumer rates be increased to pay for a \$60K DPW operated county-wide composting education program. The report fails to recognize that Marin franchise agreements penalize backyard composters. The backyard composters' ubiquitous "Green Waste Bin" is never used, yet they still have to pay for its "non-service".

In a system that rewarded conservation the backyard composter could agree to give-up their green waste bins in exchange for a service cost REDUCTION. Then the backyard composter would have an ongoing market incentive to sustain their own compost system. Furthermore, this would lead to having fewer green waste bins collected and reduce the number of trucks required for garden waste collection.

The critical success factor in this Zero Waste Strategy is the cost of the over-all waste service system would be REDUCED – fewer trucks would be emitting fewer greenhouse gases. It is a WIN for the ENVIRONMENT and a WIN for the RATEPAYER.

As noted above, giving the ratepayer choice to use or not use a green waste bin would require the franchise hauler to modify their services. With respect to the waste haulers' argument that they must retain an "economy of scale" level of services to stay profitable, the JPA Member Agency would need to work with their hauler to ensure they could adjust their fees to sustain a profitable service. This would ultimately result in higher fees being charged to remaining waste hauler service users. People who use waste service pay for it. People who do not need a service do not pay — it is called a functioning market.

It is critical that we all recognize that Marin's existing large-scale waste system, which grew in order to service society's expanding appetite for wasteful consumption, be seen for what it is – utterly unsustainable!

Sustainable San Rafael totally agrees with Waste Management Inc. and Marin Sanitary Services when they state that they do not make the waste, they just service it. For all those environmentalists who think the problem is the waste hauling industry, we assert that they miss the point.

The point is this -- If the waste haulers - landfill companies - JPA member agencies and consumers recognize that it is essential for us to get off our present unsustainable waste generation treadmill, then we all must recognize that we must DOWNSIZE the need for massive centralized expensive waste services.

In the case of residential composting, incentivizing the humble backyard composter is a great place to begin.

Response: Member/contracting agencies can adopt rate structures to incentivize waste reduction practices and this could be negotiated between with the haulers and member/contracting agencies.

6) The R3 document contains a maze of background information about franchise waste haulers and existing programs. However, it was noted that "not all data requested was obtained." The reports added that data delivered by the franchise haulers did not distinguish the source. It is also fascinating that out of all the waste haulers in Marin only MMS with a diversion rate of 50.93% surpassed the CIWMB's 50% diversion mandated by law. Then in the later chapters we discovered the franchise haulers only account for 30% of all waste disposed in Marin. Needless to say, Marin's 72% Diversion Rate remains a very intriguing and divisive mystery.

It is essential that a consistent and transparent reporting system by sector by Member Agency by material type become an element of any future plan. For any Zero Waste Strategy to be successful, it is essential that there is accurate material stream data so program priorities can be set and program impact measured.

Response: Comment noted. For the diversion rates, only a portion of the diversion rate for the JPA area is derived from hauler collection operations. It also includes material back-hauled by stores for recycling, self-haul material diversion at landfills (e.g., beneficial use), recycling centers (source-separated collection by companies rather than haulers or self-haul), grasscycling, and other source reduction activities. In addition, construction material reuse and inerts were documented in the state-approved diversion rate.

7) In section V "Impediments to Achieving Zero Waste" it was stated, "The JPA has a minimal role in solid waste program implementation at the Member Agency level and does not have any direct authority or resources to implement new programs and effectively increase diversion."

This statement is not altogether true and it is important to understand what county-wide authority the JPA actually CAN exercise.

AB 939 allows the JPA to implement whatever new programs it identifies it needs and then raise funds to support those programs by increasing the waste mitigation fee at Marin's lone regional landfill site. The JPA's present \$5.00 a ton mitigation fee supports the County's Department of Public Works JPA's staff. It is also used to support county hazardous waste containment services.

The report is correct in stating the Marin JPA has a minimal impact on waste diversion. However, that is by choice rather than due to any technical or legal constraint.

The JPA could for example identify the need for zero waste infrastructure services and set a waste mitigation fee at the same level as Alameda County (\$19.00/ton) on all waste disposed at Redwood Landfill (including 250,000 tons annually from Sonoma County.) It could then use that money to lease unused County of Marin land at a minimal rate to set up essential Zero Waste infrastructure capacity -- such as a Resource Recovery Park, C&D Park and a Green Waste Composting Site. The management of these facilities could then be contracted out to private and or non-profit operator and run on a cost recovery basis at no additional cost to the rate payer. It is that simple and the JPA has all the authority and capacity to execute such a proposal.

Response: While the JPA has a range of authority through the JPA agreement, program implementation is out of the "basic minimum programs" Section 6.1 allows the JPA to perform. In addition, Section 6.2 (Agency Election to Participate in Authority Programs) requires the "formal action of their governing boards to choose whether or not they wish to participate in and fund programs to be developed by the Authority". This aspect is where current attempts to have model ordinances adopted have fallen short.

Section 6.1 basic authority includes:

- Administration
- Planning
- Monitoring and reporting
- Compliance review
- Legislation review

Section 5.2 additional authority that could be given to the JPA if Member Agencies choose (not limited to):

- Adopt ordinances and resolutions
- Acquire hold and dispose of property
- Monitor performance

- Levy and collect fees and charges
- Issue bonds
- Implement programs

As the report states the JPA meets only twice per year. Attendance at JPA meetings by key City Managers and designated County Administer is marginal at best. Recommendation #3 proposes to have the JPA meet more often. Given the lack of will to do anything substantive and the limited professional capacity of existing JPA staff, additional meetings would not likely bring any different outcomes.

Response: Increased meetings would be warranted during program implementation and meeting frequency could be adjusted as necessary.

Likewise, recommendation #1 to spend \$40,000 on DPW's JPA staff to "increase communication with other County departments" is a very strange recommendation and has no place in a Zero Waste Strategy. If the DPW JPA staff does not have access to other departments and program reports, then it should be an internal county matter to be resolve at no extra cost to the ratepayer.

Response: Comment noted. The intent of the recommendation is increase program assistance (e.g., sharps, HHW) and has been revised to: "Increase JPA Program Assistance with Other County Departments".

Comment on other recommendations:

Recommendation #4 – Assist with permitting of "non-solid waste" facilities: In Marin County this is very much a political decision. It is a land use decision that requires political leadership.

Response: Comment noted.

Recommendation #5 –Support Extended Producer Responsibility: Too often local and County agents give this concept lip-service support without realizing that there is an existing and very vibrant "retailer" take-back program operating at the local level here in Marin County. Local take-back coupled with individual retailers reverse-logistic programs is a powerful way to begin the process of "managing resource" rather than "managing wastes". Ideally it starts with Universal Wastes, then is extended to products like paint – construction materials – electronic waste – pharmaceuticals – oil wastes etc.

An interesting local-based EPR strategy could require all service stations to take-back used plastic oil containers — it is toxic waste and it should be the oil industry's, not local member agencies, problem. Besides, the oil industry has the technology to deal with the problem. It just requires an innovative approach that recognizes opportunity.

Response: Comment noted.

Recommendation 6/7 - Revise Solid Waste Ordinances: This would be part of the Countywide overhaul of franchise agreements, if there is political support. This would require a buy-in that has not been present to date.

Response: Comment noted.

Recommendation 8 - Harmonize C&D Ordinance: Absolutely, this is especially important with the advent of Countywide BERST programs.

Response: Comment noted.

Recommendation 9 – Adopt and Enforce Multi-Family Dwelling and Business Recycling Ordinance: Support.

Response: Comment noted.

Recommendation 10: Encourage Consumption and Disposal Changes: This is without a doubt the weakest "waste reduction" initiative imaginable. It reeks of the very worst of an old "waste management" business as usual mentality regretfully reflected in this report. It is a classic "we do not know what we are doing" type "let's go educate them" recommendation.

The thinking behind such a recommendation states that it wants to "promote reducing consumption." It fails to recognize that it is not consumption per se that is the problem, it is the consumption of single use items that are not able to be reused or repaired at the center of the problem. The key is promoting mindful consumption. Marin residents are basically green minded – they just need sustainable purchase options; the key to it is promoting smart consumption.

Response: Comment noted. The type of education and consumption changes targeted can include what has been noted above.

CONCLUSION: Sustainable San Rafael does not want to offer criticism alone. We also want to ensure that positive strategies are also put forward. To that end, we want to attach an abbreviated version of the "Zero Waste Strategy Paper" written by Stuart Moody and David Haskell in their capacity as members of the Marin County Zero Waste Citizens' Advisory Committee. We believe this paper sets the policy framework for Zero Waste in Marin County.

The JPA must act to reform itself and the county's numerous franchise agreements so our public waste service systems reward Zero Waste actions. The crisis of Global Climate Change is too dire for anything less.

Response: Comment noted.

Listed below are series of Waste Minimization zero waste programs being offered by other Bay Area Waste Agencies that should for the backbone of any Zero Waste Strategy.

# Collection of Programs that SHOULD BE HAPPENING NOW in Marin



**Extended Producer Responsibility at work in your community NOW** 



**Public Private Partnership to Reduce the Cost of Waste Disposal** 



Build it Green - Deconstruction and Reuse of Materials at C&D Resource Recovery Site



**Eliminating Single Use Recyclables and Disposables** 



**Universal Home Composting and Water Conservation** 



**Universal Environmental Purchasing Policies** 





# **Education as if it matters – Empowering Youth**

# MARIN COUNTY HAZARDOUS AND SOLID WASTE MANAGEMENT JOINT POWERS AUTHORITY

Belvedere:

George Rodericks

Date: January 28, 2010

Corte Madera:

**David Bracken** 

To:

JPA Board Members

County of Marin:

From: Michael Frost

Matthew Hymel

Re:

2009 Financial Statements and Auditors Report

Fairfax:

Michael Rock

Attached for your review are the JPA's Financial Statement and Auditor's Report for the year ending June 30, 2009. Also attached is a letter from

Larkspur: Robert Sinnott

John Maher's CPA management firm for year ending

June 30, 2009. No exceptions are noted in Mr. Maher's Audit and

Management letter.

Mill Valley:

Michael Frank

**Anne Montgomery** 

At their January 20, 2010 meeting the Executive Committee

recommended your Board accept the attached financial statements and

auditor's report for the year ending June 30, 2009.

Ross:

Novato:

Gary Broad

**Attachments** 

San Anselmo: **Debbie Stutsman** 

San Rafael: Ken Nordhoff

Sausalito: Adam Politzer

Tiburon:

Margaret Curran

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November 17, 2009

To the Board of Directors
Marin County Hazardous & Solid Waste Management Authority

We have audited the financial statements of the Marin County Hazardous & Solid Waste Management Authority for the year ended June 30, 2009, and have issued our report thereon November 17, 2009. Professional standards require that we provide you with the following information related to our audit.

## Our Responsibility under U.S. Generally Accepted Auditing Standards

As stated in our engagement letter dated August 11, 2009, our responsibility, as described by professional standards, is to express opinions about whether the financial statements prepared by management with your oversight are fairly presented, in all material respects, in conformity with U.S. generally accepted accounting principles. Our audit of the financial statements does not refieve you or management of your responsibilities.

# Significant Audit Findings

# Qualitative Aspects of Accounting Practices

Management is responsible for the selection and use of appropriate accounting policies. The significant accounting policies used by Marin County Hazardous & Solid Waste Management Authority are described in Note 1 to the financial statements. No new accounting policies were adopted and the application of existing policies was not changed during year. We noted no transactions entered into by the governmental unit during the year for which there is a lack of authoritative guidance or consensus. There are no significant transactions that have been recognized in the financial statements in a different period than when the transaction occurred.

Accounting estimates are an integral part of the financial statements prepared by management and are based on management's knowledge and experience about past and current events and assumptions about future events. Certain accounting estimates are particularly sensitive because of their significance to the financial statements and because of the possibility that future events affecting them may differ significantly from those expected. There are no significant estimates used in preparing the financial statements.

# Difficulties Encountered in Performing the Audit

We encountered no significant difficulties in dealing with management in performing and completing our audit.

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## Corrected and Uncorrected Misstatements

Professional standards require us to accumulate all known and likely misstatements identified during the audit, other than those that are trivial, and communicate them to the appropriate level of management. Management has corrected all such misstatements. Because the

Authority's general ledger is maintained for each fund according to the modified accrual basis of accounting, we recommended adjustment to allow for the presentation of the government-wide financial statements on the full accrual basis since generally accepted accounting principles require that both presentations be made in the financial statements. During last fiscal year (07-08), management made a reasonable estimate of the accrued expenditures for services provided by San Rafael Fire Department based on information available at year end. At the time of our audit work for 07-08 additional information was available. Accordingly, we recommended and management accepted adjustment to reduce the estimated expenditure by approximately \$65,000. The adjustment was recorded by management in the 08-09 financial records. We recommended and management accepted that the adjustment should be recorded in 07-08 and not 08-09. Any other misstatements detected as a result of audit procedures and corrected by management were immaterial, either individually or in the aggregate, to the financial statements taken as a whole.

## Disagreements with Management

For purposes of this letter, professional standards define a disagreement with management as a financial accounting, reporting, or auditing matter, whether or not resolved to our satisfaction, that could be significant to the financial statements or the auditor's report. We are pleased to report that no such disagreements arose during the course of our audit.

# Management Representations

We have requested certain representations from management that are included in the management representation letter dated September 1, 2009 and returned to us on November 17, 2009.

# Management Consultations with Other Independent Accountants

In some cases, management may decide to consult with other accountants about auditing and accounting matters, similar to obtaining a "second opinion" on certain situations. If a consultation involves application of an accounting principle to the governmental unit's financial statements or a determination of the type of auditor's opinion that may be expressed on those statements, our professional standards require the consulting accountant to check with us to determine that the consultant has all the relevant facts. To our knowledge, there were no such consultations with other accountants.

## Other Audit Findings or Issues

We noted that expenditures for legal services and contracted services with San Rafael Fire Department exceeded amounts authorized by the budget. Management should closely monitor actual expenditures during the year. In the event that the original budget is insufficient, management should propose appropriate budget amendments for adoption during the course of the year.

Board of Directors November 17, 2009 Page 3 of 3

We generally discuss a variety of matters, including the application of accounting principles and auditing standards, with management each year prior to retention as the governmental unit's auditors. However, these discussions occurred in the normal course of our professional relationship and our responses were not a condition to our retention.

This information is intended solely for the use of Board of Directors and management of Marin County Hazardous & Solid Waste Management Authority and is not intended to be and should not be used by anyone other than these specified parties.

Very truly yours.

Maher Accountancy



# Marin Hazardous and Solid Waste JOINT POWERS AUTHORITY (JPA)



FINANCIAL STATEMENTS AND AUDITORS' REPORT YEAR ENDED JUNE 30, 2009

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To the Board of Directors Marin County Hazardous & Solid Waste Management Authority

We have audited the accompanying basic financial statements of the Marin County Hazardous & Solid Waste Management Authority as of and for the year ended June 30, 2009, as listed in the table of contents. These financial statements are the responsibility of the management of the Authority. Our responsibility is to express an opinion on these basic financial statements based on our audit.

We conducted the audit in accordance with auditing standards generally accepted in the United States of America and the California State Controller's Minimum Audit Requirements for California Special Districts. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the basic financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe our audit provides a reasonable basis for our opinion.

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of the Marin County Hazardous & Solid Waste Management Authority as of June 30, 2009, and the results of its operations for the year then ended, in conformity with accounting principles generally accepted in the United States of America as well as accounting systems prescribed by the State Controller's Office and state regulations governing special districts.

The management's discussion and analysis on pages 2 through 5 and required supplemental information on pages 16 and 17 are not a required part of the basic financial statements, but are supplementary information required by accounting principles generally accepted in the United States of America. We applied limited procedures, consisting principally of inquiries of management regarding the methods of measurement and presentation of the supplementary information. We did not audit the information and express no opinion on it.

Maher accountancy

November 17, 2009

# Marin County Hazardous & Solid Waste Management Authority P.O. Box 4186 San Rafael, CA 94913

# MANAGEMENT'S DISCUSSION AND ANALYSIS

The Management's Discussion and Analysis provides an overview of the Marin County Hazardous & Solid Waste Management Authority (Authority) financial activities for the fiscal year ended June 30, 2009. Please read it along with the Authority's financial statements, which begin on page 5.

# FINANCIAL HIGHLIGHTS

The Authority's net assets are \$479,770, a decrease of \$260,141 over the prior year. Total revenues increased by \$126,738 and total expenses increased by \$348,776.

Budgetary comparison schedules are found starting on page 16. Those schedules indicate we had positive variance of \$91,887 in Countywide Waste Management and a negative variance of \$43,319 in Household Hazardous Waste Management when comparing actual activity with budgeted.

# USING THIS ANNUAL REPORT

This annual report consists of financial statements for the Authority as a whole. The statement of net assets and the statement of activities provide information about the activities of the Authority as a whole and presents a long-term view of the Authority's finances. The fund financial statements present a short-term view of the Authority's activities (they include only current assets expected to be collected in the very near future and liabilities expected to be paid in the very near future). Presently, the Authority does not have any differences between the basic financial statements (statement of net assets and statement of activities) and the fund financial statements (balance sheet and statement of revenues, expenditures and changes in fund balance).

# THE AUTHORITY AS A WHOLE

One important question asked about the Authority's finances is, "Is the Authority better or worse off as a result of the year's activities?" The information in the government-wide financial statements helps answer this question. These statements include *all* assets and liabilities using the *accrual basis of accounting*, which is similar to the basis of accounting used by most private-sector companies.

The change in *net assets* (the difference between total assets and total liabilities) over time is one indicator of whether the Authority's financial health is improving or deteriorating. However, one must consider other nonfinancial factors in making an assessment of the Authority's health, such as changes in the economy and changes in the Authority's boundaries, etc. to assess the *overall* health of the Authority.

Changes in the Authority's net assets were as follows:

	2009	2008	Increase (decrease)
Total assets Total liabilities	\$ 711,002	\$ 1,058,351	\$ (347,349)
	231,232	318,440	(87,208)
Net assets: Designated Undesignated Total net assets	278,373	662,258	(383,885)
	201,397	77,653	123,744
	\$ 479,770	\$ 739,911	\$ (260,141)

The Authority's total assets decreased as a result of the planned operating deficit and the payment of liabilities from the prior year. The Authority was able to reduce its liabilities at year-end because it received vendor invoices for hazardous waste disposal services more timely than in the prior year.

Changes in the Authority's revenues were as follows:

		2009		2008	Increase (decrease)	
General revenues: Investment earnings	\$	3,775	\$	10,330	. \$	(6,555)
Program revenues: Solid waste management fees Grant revenue Miscellaneous Investment earnings Total program revenue		,678,773 7,000 1,875 13,409 ,701,057	1	,518,380 5,508 - 43,876 ,567,764		160,393 1,492 1,875 (30,467) 133,293
Total revenues	\$ 1	,704,832	\$ 1	,578,094	\$	126,738

Solid waste management fees increased as planned for in our budget.

Changes in the Authority's expenses and net assets were as follows:

			Increase
	2009	2008	(decrease)
Contract staff and support	\$ 347,003	\$ 257,636	\$ 89,367
Services and supplies	1,617,970	1,358,561	259,409
Total expenses	1,964,973	1,616,197	348,776
Less program revenues	1,701,057	1,567,764	133,293
Net revenue (expenses)	(263,916)	(48,433)	(215,483)
General revenues	3,775	10,330	(6,555)
Change in net assets	\$ (260,141)	\$ (38,103)	\$ (222,038)

Expenses increased as a result of our higher contracted fixed fee arrangement with the County and the implementation of the Zero Waste program during 2008-09.

# FUND FINANCIAL STATEMENTS

The fund financial statements provide detailed information about the Authority's funds - the general fund and special revenue fund.

The fund financial statements provide a short-term view of the Authority's operations. They are reported using an accounting basis called *modified accrual* which measures amounts using only cash and other short-term assets and liabilities (receivables and payables) that will soon be converted to cash or will soon be paid with cash.

# CAPITAL ASSET AND DEBT ADMINISTRATION

The Authority does not own any capital assets nor does it have any debt. The Authority shares office space with the Marin County Public Works Department.

# THE FUTURE OF THE AUTHORITY

With a growing awareness of our society's environmental impacts, the public has shown an increasing interest in recycling, reuse, waste reduction and hazardous materials programs. The incremental increase in products that are legislatively banned from landfill disposal and public requests for expansion of green programs demonstrates the growing demand for a greater scope of environmental services in the future. The JPA's goal of 80 percent diversion by 2012 and Zero Waste by 2025 will require substantial coordination and uniformity of solid waste services, outreach programs, infrastructure, and regulation in the future.

# **REQUESTS FOR INFORMATION**

This financial report is designed to provide our citizens, taxpayers and creditors with a general overview of the Authority's finances and to demonstrate the Authority's accountability for the funds under its stewardship.

Please address any questions about this report or requests for additional financial information to the address on our letterhead.

Respectively submitted,

Michael Frost, Manager

# STATEMENT OF NET ASSETS AS OF JUNE 30, 2009

ASSETS						
Cash					\$	707,724
Receivables:						•
Grants			 			3,278
Total assets						711,002
				٠.	٠.	•
LIABILITIES						
Accounts payable and accrued expenses						231,232
		•				
NET ASSETS						
Restricted for household hazardous						
waste disposal				•. •		278,373
Unrestricted					<u></u>	201,397
Total net assets					\$	479,770

# STATEMENT OF ACTIVITIES YEAR ENDED JUNE 30, 2009

	Ma	tywide Waste anagement neral Fund)	Wa	Iazardous aste (Special venue Fund)		Total
EXPENDITURES:						
Contract staff and support	\$	312,303	\$	34,700	\$	347,003
Services and supplies		208,949_		1,409,021		,617,970
Total expenditures/expenses		521,252		1,443,721	1	,964,973
PROGRAM REVENUES:						
Waste management fees		632,346		1,046,427	1	,678,773
Operating grant - State of California		7,000		· · · -		7,000
Miscellaneous income		1,875		-		1,875
Investment earnings		•		13,409		13,409
Total program revenue		641,221		1,059,836		1,701,057
Net program revenue (expense)	\$	119,969	\$	(383,885)		(263,916)
GENERAL REVENUES:						
Investment earnings						3,775
Excess (deficiency) of revenues		٠				
over expenses						(260,141)
NET ASSETS:			٠.	•		
Net Assets at June 30, 2008				•		739,911
Net Assets at June 30, 2009						479,770

# BALANCE SHEET YEAR ENDED JUNE 30, 2009

	Countywide Waste Management	Household Hazardous Waste (Special Revenue	
	(General Fund)	Fund)	Total
ASSETS			
Cash	\$ 198,119	\$ 509,605	\$ 707,724
Receivables:		•. •	
Grants	3,278		3,278
Total assets	\$ 201,397	\$ 509,605	\$ 711,002
LIABILITIES			
Accounts payable and accrued expenses	\$ -	\$ 231,232	\$ 231,232
FUND BALANCES			
Fund balances:			
Designated for household hazardous			
waste disposal		278,373	278,373
Undesignated	201,397		201,397
Total fund balance	201,397	278,373	479,770
Total liabilities and fund balances	\$ 201,397	\$ 509,605	\$ 711,002

# STATEMENT OF REVENUES, EXPENDITURES AND CHANGES IN FUND BALANCES YEAR ENDED JUNE 30, 2009

	Countywide Waste Management (General Fund)	Hazardous Waste (Special Revenue Fund)	Total
REVENUES:			
Solid waste management fees	\$ 632,346	\$ 1,046,427	\$ 1,678,773
Operating grant - State of California	7,000	· <b>-</b>	7,000
Miscellaneous income	1,875	•	1,875
Investment earnings	3,775	13,409	17,184
Total revenues	644,996	1,059,836	1,704,832
EXPENDITURES:			
Contract staff and support	312,303	34,700	347,003
Services and supplies:			
Legal	5,600		5,600
Accounting and audit fees	7,500		7,500
Insurance	16,624		16,624
Rent	15,904		15,904
Mileage and routine travel	211	.*	211
Outreach	17,230		17,230
Contract services	139,275	1,409,021	1,548,296
Computer supplies	756		756
County financial service	5,849		5,849
Total services and supplies	208,949	1,409,021	1,617,970
Total expenditures	521,252	1,443,721	1,964,973
EXCESS (DEFICIENCY) OF REVENU	JES		
OVER EXPENDITURES	123,744	(383,885)	(260,141)
Fund balance at June 30, 2008	77,653	662,258	739,911
Fund balance at June 30, 2009	\$ 201,397	\$ 278,373	\$ 479,770

# NOTES TO THE FINANCIAL STATEMENTS YEAR ENDED JUNE 30, 2009

# 1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

# REPORTING ENTITY

The Marin County Hazardous & Solid Waste Management Authority was formed under a joint powers agreement between the County of Marin and eleven cities and towns within Marin County. The purpose of Authority is to administer and enforce hazardous waste and solid waste management plans, as mandated by State Law.

The governing board of the Authority consists of one appointed official from each of the member agencies. The Authority has contracted with Marin County Department of Public Works for administrative services and the City of San Rafael for Hazardous Waste management services.

### INTRODUCTION

The Authority's financial statements are prepared in accordance with generally accepted accounting principles (GAAP). The Governmental Accounting Standards Board (GASB) is responsible for establishing GAAP for state and local governments through its pronouncements (Statements and Interpretations.). Governments are also required to follow the pronouncements of the Financial Accounting Standards Board (FASB) issued through November 30, 1989 (when applicable) that do not conflict with or contradict GASB pronouncements.

# BASIC FINANCIAL STATEMENTS GOVERNMENT-WIDE STATEMENTS

The Authority's basic financial statements include both government-wide (reporting the Authority as a whole) and fund financial statements (reporting the Authority's major funds).

In the government-wide Statement of Net Assets, the Authority's activities are reported on a full accrual, economic resource basis, which recognizes all long-term assets and receivables as well as long-term debt and obligations. The Authority's net assets are reported in two parts: (1) invested in capital assets, net of related debt, and (2) unrestricted net assets. Since the Authority does not own any capital assets and there is no debt, only unrestricted assets are shown.

# NOTES TO THE FINANCIAL STATEMENTS YEAR ENDED JUNE 30, 2009

# 1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (continued)

# BASIC FINANCIAL STATEMENTS GOVERNMENT-WIDE STATEMENTS (Continued)

The government-wide Statement of Activities reports both the gross and net cost of the Authority's function. The function is supported by general government revenues. The Statement of Activities reduces gross expenses by related program revenues.

The net costs (by function) are normally covered by general revenues.

The government-wide focus is more on the sustainability of the Authority as an entity and the change in the Authority's net assets resulting from the current year's activities.

### **FUND FINANCIAL STATEMENTS**

The financial transactions of the Authority are reported in individual funds in the fund balancing accounts that comprise its assets, liabilities, reserves, fund equity, revenues and expenditures.

The Authority uses the following fund type:

#### Governmental fund:

The focus of the governmental funds' measurement (in the fund statements) is upon determination of financial position and changes in financial positions (sources, uses, and balances of financial resources) rather than upon net income. The following is a description of the governmental funds of the Authority:

General fund accounts for the Authority's general operations.

**Special revenue fund** accounts for hazardous waste disposal for households through a contract with the City of San Rafael Fire Department and Novato Sanitary District.

# BASIS OF ACCOUNTING

Basis of accounting refers to the point at which revenues or expenditures/expenses are recognized in the accounts and reported in the financial statements. It relates to the timing of the measurement made regardless of the measurement focus applied.

# NOTES TO THE FINANCIAL STATEMENTS YEAR ENDED JUNE 30, 2009

# 1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (continued)

# ACCRUAL:

The governmental activities in the governmental-wide financial statements are presented on the accrual basis of accounting. Revenues are recognized when earned and expenses are recognized when incurred.

## MODIFIED ACCRUAL:

The government fund financial statements are presented on the modified accrual basis of accounting. Under the modified accrual basis of accounting, revenues are recorded when susceptible to accrual; i.e., both measurable and available. "Available" means collectible within the current period or within 60 days after year-end. Expenditures are generally recognized when the related liability is incurred. The exception to this general rule is that principal and interest on general obligation long-term debt, if any, is recognized when due.

There were no differences between the two bases of accounting for the year ended June 30, 2009.

# FINANCIAL STATEMENT AMOUNTS

### CASH AND CASH EQUIVALENTS:

The Authority has defined cash and cash equivalents to include cash on hand, demand deposits, and short-term investments with fiscal agent (County of Marin).

# Equipment and infrastructure

It is the Authority's policy to record purchases of items of furniture and equipment costing \$1,000 or less as office supplies. Items in excess of \$1,000 are classified as capital outlay or capitalized. As of June 30, 2009, no equipment purchases have met the capitalization criteria.

### BUDGET

Both the original budget and the final budget (if changes were adopted) are included in these financial statements as approved by the Board of Directors. The budgetary basis is the modified accrual basis of accounting.

# NOTES TO THE FINANCIAL STATEMENTS YEAR ENDED JUNE 30, 2009

# 2. CASH

The Authority maintains all of its cash in the County of Marin pooled investment fund for the purpose of increasing interest earnings through pooled investment activities. Interest earned on the investment pool is allocated quarterly to the participating funds using the daily cash balance of each fund. This pool, which is available for use by all funds, is displayed in the financial statements as "Cash."

The County Pool includes both voluntary and involuntary participation from external entities. The State of California statutes require certain special districts and other governmental entities to maintain their cash surplus with the County Treasurer.

The County's investment pool is not registered with the Securities and Exchange Commission as an investment company. Investments made by the Treasurer are regulated by the California Government Code and by the County's investment policy. The objectives of the policy are in order of priority, safety, liquidity, yield, and public trust. The County has established a treasury oversight committee to monitor and review the management of public funds maintained in the investment pool in accordance with Article 6 Section 27131 of the California Government Code. The oversight committee and the Board of Supervisors review and approve the investment policy annually. The County Treasurer prepares and submits a comprehensive investment report to the members of the oversight committee and the investment pool participants every month. The report covers the types of investments in the pool, maturity dates, par value, actual costs and fair value.

# INTEREST RATE RISK

In accordance with its investment policy, the County manages its exposure to declines in fair values by limiting the weighted average maturity of its investment pool to 540 days, or 1.5 years. At June 30, 2008, the latest available information, the County's investment pool had a weighted average maturity of 218 days.

For purposes of computing weighted average maturity, the maturity date of variable rate notes is the length of time until the next reset date rather than the stated maturity date.

# CREDIT RISK

State law and the County's Investment Policy limits investments in commercial paper, corporate bonds, and medium term notes to the rating of "A" or higher as provided by Moody's Investors Service or Standard & Poor's Corporation. The County's Investment Policy limits investments purchased by Financial Institution Investment Accounts, a type of mutual fund, to United States Treasury and Agency obligations with a credit quality rating of "AAA."

# NOTES TO THE FINANCIAL STATEMENTS YEAR ENDED JUNE 30, 2009

# 2. CASH (continued)

### CONCENTRATION OF CREDIT RISK

The following is a summary of the concentration of credit risk by investment type as a percentage of each pool's fair value at June 30, 2008, the latest date available.

	Percent of Portfolio
Investments in Investment Pool	
U.S. Agency	65%
U.S. Treasury	11%
Local Agency Investment Fund	2%
Money market funds	6%
Certificates of deposits	11%
Bankers acceptances	4%
Commercial paper	1%
	100%

# CUSTODIAL CREDIT RISK

For investments and deposits held with safekeeping agents, custodial credit risk is the risk that, in the event of the failure of the counterparty, the County will not be able to recover the value of its investments or deposits that are in the possession of an outside party. At year end, the County's investment pool had no securities exposed to custodial credit risk.

## LOCAL AGENCY INVESTMENT FUND

The County Treasurer's Pool maintains an investment in the State of California Local Agency Investment Fund (LAIF), managed by the State Treasurer. This fund is not registered with the Securities and Exchange Commission as an investment company, but is required to invest according to California State Code. Participants in the pool include voluntary and involuntary participants, such as special districts and school districts for which there are legal provisions regarding their investments. The Local Investment Advisor Board (Board) has oversight responsibility for LAIF. The Board consists of five members as designated by State statue.

# NOTES TO THE FINANCIAL STATEMENTS YEAR ENDED JUNE 30, 2009

# 3. RISK MANAGEMENT

The Authority is exposed to various risks of loss related to torts; theft of, damage to, and destruction of assets; and errors and omissions. During the year, the Authority purchased liability insurance with limits of \$2,000,000 and a deductible of \$1,000.

# 4. RELATED PARTY TRANSACTIONS

The County of Marin is a member of the Authority. The County Public Works Department provided staffing for the Authority for a fee of \$347,003 for the year. Additionally, the Authority paid the County of Marin \$15,904 for rent and \$5,849 for indirect overhead.

The Authority incurred expenditures of \$1,375,518 under a contract with the City of San Rafael (a member government) to operate its household waste program. As of June 30, 2009, accrued expenses to the City of San Rafael amounted to \$231,232. The Authority has budgeted \$1,360,000 for these services for the 2009-10 fiscal year.

# 5. STATE GRANT

The Authority was the recipient of two grants from the State of California. One grant, for \$7,000, was used to create region-wide programs for dealing with universal waste issues. The other grant, for \$300,000, is to provide funding for the expansion of the San Rafael Household Hazardous Waste facility is expected to be earned during the 2009-10 fiscal year.

# BUDGET COMPARISON SCHEDULE COUNTYWIDE WASTE MANAGEMENT PROGRAM GENERAL FUND (CWM) YEAR ENDED JUNE 30, 2009

	Original and Final Budget		Variance Positive (Negative)
REVENUES:		•	
Waste management fees	\$ 632,342	\$ 632,346	\$ 4
Operating grant - State of California	<del>-</del>	7,000	7,000
Miscellaneous income		1,875	1,875
Investment earnings	1,592	3,775	2,183
Total revenues	633,934	644,996	11,062
EXPENDITURES:			
Contract staff and support	312,303	312,303	ä
Services and supplies:			
Legal	4,000	5,600	(1,600)
Accounting and audit fees	8,000	7,500	500
Insurance	17,420	16,624	796
Equipment repairs & maintenance	1,000	,	1,000
Rent	15,904	15,904	
Training	1,500		1,500
Mileage and routine travel	600	211	389
Outreach	30,000	17,230	12,770
Zero waste development	200,000	139,275	60,725
Computer supplies	1,000	756	244
Office supplies	2,500		2,500
Document reproduction	2,000		2,000
County financial service	5,850	5,849	1
Total services and supplies	289,774	208,949	80,825
Total expenditures	602,077	521,252	80,825
PACEGO (PERCENTICAL) OF PERCENT			•
EXCESS (DEFICIENCY) OF REVEN		100 - 1	<b>.</b>
OVER EXPENDITURES	\$ 31,857	123,744	\$ 91,887
Fund balance as of June 30, 2008		77,653	
Fund balance as of June 30, 2009		\$ 201,397	

# BUDGET COMPARISON SCHEDULE HOUSEHOLD HAZARDOUS WASTE PROGRAM (NNO) SPECIAL REVENUE FUND YEAR ENDED JUNE 30, 2009

	Original and Final Budget	Actual	Variance Positive (Negative)		
REVENUES:					
Solid waste management fees	\$ 1,046,427	1,046,427	\$ -		
Investment earnings	9,062	13,409	4,347		
Total revenues	1,055,489	1,059,836	4,347		
EXPENDITURES:					
Contract services and support	34,700	34,700	-		
Contract services	1,361,355	1,409,021	(47,666)		
Total expenditures	1,396,055	1,443,721	(47,666)		
EXCESS (DEFICIENCY) OF REVENUES OVER EXPENDITURES	\$ (340,566)	(383,885)	\$ (43,319)		
Fund balance June 30, 2008		662,258			
Fund balance June 30, 2009		\$ 278,373			

# MARIN COUNTY HAZARDOUS AND SOLID WASTE MANAGEMENT JOINT POWERS AUTHORITY

Belvedere:

George Rodericks

January 28, 2010

Corte Madera: David Bracken

To:

JPA Board Members

County of Marin:

From: Michael Frost

Matthew Hymel

Fairfax:

Michael Rock

Re:

2008 Annual Report Submittal

Larkspur:

**Robert Sinnott** 

Mill Valley:

Novato: Michael Frank

Gary Broad

San Anselmo: **Debbie Stutsman** 

San Rafael: Ken Nordhoff

Sausalito: Adam Politzer

Tiburon: Margaret Curran Attached is the summary of the 2008 AB939 Annual Report that was submitted on August 3, 2009 to the California Integrated Waste Management Board. This is the second year the report is in a new format due to regulatory changes that were imposed by SB1016. Although this JPA tracks both diversion and disposal, the reporting system is now solely based on disposal amounts for the reporting year. Disposal is compared with historic data to determine if the 50% diversion requirement is met.

In 2008, the JPA reported a disposal rate of 4.5 pounds per person per day. This is well below the target rate for 50% diversion is 7.6 pounds per person per day and is down from the 2007 rate of 4.9 pounds per person per day. As long as Marin remains below the 7.6 pound target all jurisdictions remain in compliance with AB939.

For basis of comparison, using the "old" reporting method Marin would be at 65 percent diversion for 2008. At 65 percent the rate is the same as 2007. For the past two years there has been a large reduction in the amount of inert material and Biomass which counted up to 10% of diversion that Marin would have gotten credit for in the old system.

The JPA is on target in limiting disposal. However, inert material that was traditionally diverted at the landfill or in local public works projects as road base, slope stabilization, and levee material has been reduced.

Staff is active in working with local municipalities to collect a greater amount of diversion data to accurately characterize waste diversion activities through the traditional diversion rate calculation method for 2009.

Attachments

F:\Waste\JPA\JPA Agenda Items\JPA 100128\Annual Report.doc

# Annual Report Summary: Marin County Hazardous and Solid Waste Management Authority (2008)

This Annual Report Summary is an official record of your CIWMB Electronic Annual Report submission, except for your Venue/Event section information, which is contained in a separate report. You may reach that section from the Electronic Annual Report's left navigation bar.

Before submitting your report to the Board, please take the time to review everything on this page to confirm it is complete and correct. If you need to modify some information, close this window to return to the Electronic Annual Report to make your corrections. Then, preview the report again.

Summary Generated On: Tuesday, September 29, 2009 at 3:26 PM

**Jurisdiction Contact Jurisdiction Contact:** Jurisdiction: Marin County Hazardous and Solid Waste Management Address: Authority **Phone Number:** Report Year Filed: 2008 Fax Number: Report Status: Submitted **Email Address:** Update Contact Info: http://www.ciwmb.ca.gov/LGCentral/Contacts/ContactChg.htm **Submitted Information** 

Date Report Submitted: Monday, August 03,

2009 at 3:59 PM

Report Submitted By: Michael Frost

(mfrost@co.marin.ca.us)

Definition of Terms								 S	how ¥
Reporting-Year Disp	osal Amour	nt (tons):		210,8	350.05				
Disposal Reduction (	Credits (Re	ported):		•					
Disaster Waste (tons	s):		0.00						
Medical Waste (tons	):		0.00		1				
Regional Diversion F	acility Resid	ual Waste (tons):	0.00		.				
C&D Waste (tons):			0.00	,	1				
Class II Waste (tons	):	,	0.00	•					
Out-of-State Export	(Diverted) (	tons):	0.00		١.				
Other Disposal Amou	unt (tons):		0.00						
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Reporting-Year Popu Reporting-Year Emp <u>Re</u>	loyment: porting-Yea	tion(pounds/person/day):	Population Target Annual	1 Employ	o8,120 ment Annual		<i>t</i> ,		

### **Calculation Factors**

If any boxes are checked, please complete, and sign the Reporting Year Disposal Modification Certification Sheet and mail, e-mail or FAX to the CIWMB within 7 business days of submitting your report. If you are only claiming report-year disposal deductions for waste transported to a board-certified Transformation facility, you do not need to fill out the certification request.

Although you will be able to submit your electronic Annual Report without completing this sheet, your Annual Report will not be deemed complete until this sheet is completed and received by CIWMB. Contact your <u>LAMD representative</u> for details.

Alternative disposal tonnage

Deductions to DRS disposal tonnage

#### Questions and Responses

### Rural Petition for Reduction in Requirements

#### **Rural Petition For Reduction**

Question: Was your jurisdiction granted a rural Petition for Reduction by the CIWMB?
 For more information regarding Rural Petition For Reduction, go to Rural Solid Waste Diversion Home Page.

#### Response

No.

#### **Newly Incorporated Cities**

#### New City

Question: Since the date of your last Annual Report, are there any newly incorporated cities within your county/regional
agency?

#### Response

No.

#### Disposal Rate Accuracy

### **Disposal Rate Accuracy**

1. Question: Are there extenuating circumstances pertaining to your jurisdiction's disposal rate that the Board should consider, as authorized by the <u>Public Resources Code Section 41821(c)</u>? If you wish to attach additional information to your annual report, please send those items or electronic files to your LAMD representative; include a brief description of those files below. If so, please use the space below to tell the Board.

#### Response

No.

#### Planning Documents Assessment

# Source Reduction and Recycling Element (SRRE)

1. Question: Does the SRRE need to be revised?

# Response

No.

## Household Hazardous Waste Element (HHWE)

2. Question: Does the HHWE need to be revised?

## Response

No.

#### Non-Disposal Facility Element (NDFE)

3. Question: Describe below any changes in the use of <u>nondisposal facilities</u>, both existing and planned (e.g., is the jurisdiction using a different facility within or outside of the jurisdiction, has a facility closed, is a new one being planned).

#### Response

The Non-Disposal Facility Element in undergoing an amendment due to the changes in Redwood Landfill's permit that includes the composting facility under the same permit. The amended document has been submitted to the Local Task Force for comment and will be reviewed by the Joint Powers Authority Board and submitted to the CIWMB later this year.

#### Non-Disposal Facility Element (NDFE)

**4. Question:** Are there currently any nondisposal facilities that require a solid waste facility permit located (or planned to be sited) in your jurisdiction that are not identified in your NDFE?

### Response

Yes. Redwood Landfill's Composting Facility has been placed under their newly amended permit. The NDFE is in the process of being amended and will be submitted to the CIWMB later this year.

#### Summary Plan Assessment

#### **Summary Plan**

1. Question: Does the Summary Plan need to be revised?

#### Response

No.

#### Siting Element Assessment

#### Total County or Agency Wide Disposal Capacity

1. Question: Based on the best available estimates of current and future disposal, how many years of disposal capacity does your county or regional agency have?

#### Response

16

#### **Total County or Agency Wide Disposal Capacity**

Question: If you do not currently have 15 years of disposal capacity, describe your strategy for obtaining 15 years of capacity.

#### Response

No response has been entered

#### Siting Element Adequacy

3. Question: Does the Siting Element need to be revised? The Siting Element will need to be revised if you have less than 15 years disposal capacity and have not described a strategy for obtaining 15 years disposal capacity.

### Response

No.

#### Areas of Concern / Conditional Approvals

### Areas of concern

1. Question: Did the Board require your jurisdiction to address any areas of concern when determining the adequacy of your solid waste planning documents, or any of their elements?

#### Response

No.

#### **Conditional approvals**

Question: Did the Board give conditional approval to any of your solid waste planning documents, or any of their elements? Response

No.

#### **Additional Information**

# Additional Information

1. Question: Is there anything else you would like to tell the CIWMB about unique or innovative efforts by your jurisdiction to reduce waste generation and increase diversion, about your jurisdiction's public education efforts, or about specific obstacles to reaching your jurisdiction's diversion goal? If you wish to attach additional information to your annual report, please send those items or electronic files to your LAMD representative and include a brief description of those files below.

#### Response

Yes. The Marin County Hazardous and Solid Waste Management Joint Powers Authority is developing a Zero Waste Feasibility Study. The first phase of the process will be complete by the end of the year, which will result in a report with several recommendations to reach the JPA's Zero Waste Goals. An optional second phase will start program implementation by working with member agencies and special districts on service changes, franchise agreement edits, and fee restructuring.

### SRRE and HHWE Diversion Programs

### 1000-SR-XGC (Xeriscaping/Grasscycling)

Current Status: SO - Selected and Ongoing

Program Start Year: 1992

Report Year Diversion Tons: 0.00

Existed before 1990: No Selected in SRRE: Yes Owned or Operated: No

**Jurisdiction Notes** 

### 1010-SR-BCM (Backyard and On-Site Composting/Mulching)

Current Status: SO - Selected and Ongoing

Program Start Year: 1993

Report Year Diversion Tons: 0.00

Existed before 1990: No Selected in SRRE: Yes Owned or Operated: No

#### Jurisdiction Notes

In 2008 the JPA began a backyard composting program that provided subsidized compost bins to residents when they took a composting class. The JPA partnered with the Marin Art and Garden Center, Marin Sanitary Service and the Marin Municipal Water District to host the classes.

# 1020-SR-BWR (Business Waste Reduction Program)

Current Status: SO - Selected and Ongoing

Program Start Year: 1990

Report Year Diversion Tons: 0.00

Existed before 1990: Yes Selected in SRRE: Yes

Owned or Operated: No

**Jurisdiction Notes** 

# 1030-SR-PMT (Procurement)

Current Status: SO - Selected and Ongoing

Program Start Year: 1992 Report Year Diversion Tons: 0.00 Existed before 1990: Yes Selected in SRRE: Yes Owned or Operated: Yes

**Jurisdiction Notes** 

# 1040-SR-SCH (School Source Reduction Programs)

Current Status: AO - Alternative and Ongoing

Program Start Year: 2000

Report Year Diversion Tons: 0.00

Existed before 1990: No Selected in SRRE: No Owned or Operated: Yes

**Jurisdiction Notes** 

# 1050-SR-GOV (Government Source Reduction Programs)

Current Status: SO - Selected and Ongoing

Program Start Year: 1990

Report Year Diversion Tons: 0.00

Existed before 1990: Yes Selected in SRRE: Yes Owned or Operated: Yes

**Jurisdiction Notes** 

1060-SR-MTE (Material Exchange, Thrift Shops)

Current Status: SO - Selected and Ongoing Program Start Year: 1990 Existed before 1990: Yes
Report Year Diversion Tons: 0.00 Selected in SRRE: Yes
Owned or Operated: No

Jurisdiction Notes

2000-RC-CRB (Residential Curbside)

Current Status: SO - Selected and Ongoing Program Start Year: 1982 Existed before 1990: Yes Report Year Diversion Tons: 49906.70 Selected in SRRE: Yes Owned or Operated: No

Jurisdiction Notes

2010-RC-DRP (Residential Drop-Off)

Current Status: SO - Selected and Ongoing Program Start Year: 1992 Existed before 1990: Yes Report Year Diversion Tons: 0.00 Selected in SRRE: Yes Owned or Operated: No

Jurisdiction Notes

2020-RC-BYB (Residential Buy-Back)

Current Status: SO - Selected and Ongoing
Program Start Year: 1982
Report Year Diversion Tons: 5983.83
Selected in SRRE: Yes
Owned or Operated: No

Jurisdiction Notes

2030-RC-OSP (Commercial On-Site Pickup)

Current Status: SO - Selected and Ongoing Program Start Year: 1992 Existed before 1990: Yes Report Year Diversion Tons: 0.00 Selected in SRRE: Yes Owned or Operated: No

Jurisdiction Notes

2050-RC-SCH (School Recycling Programs)

Current Status: SO - Selected and Ongoing Program Start Year: 1992 Existed before 1990: No Report Year Diversion Tons: 0.00 Selected in SRRE: Yes Owned or Operated: No

Jurisdiction Notes

2060-RC-GOV (Government Recycling Programs)

Current Status: SO - Selected and Ongoing Program Start Year: 1990 Existed before 1990: Yes Selected in SRRE: Yes Owned or Operated: No

Jurisdiction Notes

2070-RC-SNL (Special Collection Seasonal (regular))

Current Status: AO - Alternative and Ongoing

Program Start Year: 1988

Report Year Diversion Tons: 0.00

Existed before 1990: No Selected in SRRE: No Owned or Operated: No

**Jurisdiction Notes** 

2080-RC-SPE (Special Collection Events)

Current Status: SO - Selected and Ongoing

Program Start Year: 1994 Report Year Diversion Tons: 0.00 Existed before 1990: No Selected in SRRE: Yes Owned or Operated: Yes

**Jurisdiction Notes** 

3000-CM-RCG (Residential Curbside Greenwaste Collection)

Current Status: SO - Selected and Ongoing

Program Start Year: 1993 Report Year Diversion Tons: 32966.32 Existed before 1990: No

Selected in SRRE: Yes Owned or Operated: No

**Jurisdiction Notes** 

This total includes all residential greenwaste collected by the franchised haulers that was utilized as compost as well as the material used for erosion control purposes at Redwood Landfill.

3010-CM-RSG (Residential Self-haul Greenwaste)

Current Status: SO - Selected and Ongoing

Program Start Year: 1993 Report Year Diversion Tons: 3469.77

Existed before 1990: No Selected in SRRE: Yes

Owned or Operated: No

**Jurisdiction Notes** 

This program includes all the material that was self hauled to Redwood from Marin sources and used as erosion control or compost and material that was self hauled to MSS and used as Mulch.

3030-CM-CSG (Commercial Self-Haul Greenwaste)

Current Status: SO - Selected and Ongoing

Program Start Year: 1993 Report Year Diversion Tons: 0.00 Existed before 1990: No

Selected in SRRE: Yes Owned or Operated: No

**Jurisdiction Notes** 

3050-CM-SCH (School Composting Programs)

Current Status: AO - Alternative and Ongoing

Program Start Year: 2000

Report Year Diversion Tons: 0.00

Existed before 1990: No Selected in SRRE: No

Owned or Operated: No

**Jurisdiction Notes** 

4010-SP-SLG (Sludge (sewage/industrial))

Current Status: SO - Selected and Ongoing

Program Start Year: 1995

Report Year Diversion Tons: 6333.63

Existed before 1990: No

Selected in SRRE: Yes

**Jurisdiction Notes** 

Owned or Operated: No **Jurisdiction Notes** 4020-SP-TRS (Tires) Existed before 1990: Yes Program Start Year: 1990 Current Status: SO - Selected and Ongoing ' Report Year Diversion Tons: 0.00 Selected in SRRE: Yes Owned or Operated: No **Jurisdiction Notes** 4030-SP-WHG (White Goods) Existed before 1990: No Current Status: AO - Alternative and Ongoing Program Start Year: 1996 Report Year Diversion Tons: 33.98 Selected in SRRE: No Owned or Operated: No Jurisdiction Notes 4040-SP-SCM (Scrap Metal) Existed before 1990: Yes Program Start Year: 1989 Current Status: SO - Selected and Ongoing Report Year Diversion Tons: 201.98 Selected in SRRE: Yes Owned or Operated: Yes **Jurisdiction Notes** 4050-SP-WDW (Wood Waste) Existed before 1990: Yes Program Start Year: 1993 Current Status: SO - Selected and Ongoing Report Year Diversion Tons: 952.11 Selected in SRRE: Yes Owned or Operated: No **Jurisdiction Notes** 4060-SP-CAR (Concrete/Asphalt/Rubble) Existed before 1990: Yes Program Start Year: 1990 Current Status: SO - Selected and Ongoing Selected in SRRE: Yes Report Year Diversion Tons: 90516.53 Owned or Operated: No **Jurisdiction Notes** 4090-SP-RND (Rendering) Program Start Year: 1990 Existed before 1990: No Current Status: SO - Selected and Ongoing Report Year Diversion Tons: 0.00 Selected in SRRE: Yes Owned or Operated: No

# 5000-ED-ELC (Electronic (radio ,TV, web, hotlines))

Current Status: SO - Selected and Ongoing

Program Start Year: 1994 Report Year Diversion Tons: 0.00 Existed before 1990: No Selected in SRRE: Yes Owned or Operated: Yes

**Jurisdiction Notes** 

# 5010-ED-PRN (Print (brochures, flyers, guides, news articles))

Current Status: SO - Selected and Ongoing

Program Start Year: 1992

Report Year Diversion Tons: 0.00

Existed before 1990: Yes Selected in SRRE: Yes Owned or Operated: No

**Jurisdiction Notes** 

#### 5020-ED-OUT (Outreach (tech assistance, presentations, awards, fairs, field trips))

Current Status: SO - Selected and Ongoing

Program Start Year: 1994

Report Year Diversion Tons: 0.00

Existed before 1990: Yes Selected in SRRE: Yes Owned or Operated: Yes

**Jurisdiction Notes** 

#### 5030-ED-SCH (Schools (education and curriculum))

Current Status: SO - Selected and Ongoing

Program Start Year: 1993 Report Year Diversion Tons: 0.00 Existed before 1990: Yes Selected in SRRE: Yes Owned or Operated: No

**Jurisdiction Notes** 

### 6010-PI-EIN (Economic Incentives)

Current Status: SO - Selected and Ongoing

Program Start Year: 1993

Report Year Diversion Tons: 0.00

Existed before 1990: No-Selected in SRRE: Yes Owned or Operated: No

**Jurisdiction Notes** 

### 6020-PI-ORD (Ordinances)

Current Status: AO - Alternative and Ongoing

Program Start Year: 2000

Report Year Diversion Tons: 0.00

Existed before 1990: No Selected in SRRE: No Owned or Operated: Yes

**Jurisdiction Notes** 

# 7000-FR-MRF (MRF)

Current Status: SO - Selected and Ongoing

Program Start Year: 1993

Report Year Diversion Tons: 124850.59

Existed before 1990: Yes Selected in SRRE: Yes Owned or Operated: No

**Jurisdiction Notes** 

7010-FR-LAN (Landfill)

Current Status: AO - Alternative and Ongoing

Program Start Year: 1996

Report Year Diversion Tons: 69546.18

Existed before 1990: No Selected in SRRE: No

Owned or Operated: No

**Jurisdiction Notes** 

7020-FR-TST (Transfer Station)

Current Status: SO - Selected and Ongoing

Program Start Year: 1990 Report Year Diversion Tons: 0.00 Existed before 1990: Yes Selected in SRRE: Yes Owned or Operated: No

Jurisdiction Notes

7030-FR-CMF (Composting Facility)

Current Status: SO - Selected and Ongoing

Program Start Year: 1990

Report Year Diversion Tons: 25874.46

Existed before 1990: Yes

Selected in SRRE: Yes

Owned or Operated: No

**Jurisdiction Notes** 

Redwood Landfill's new permit now includes their composting operation. Marin Sanitary began sending greenwaste to their facility in Zemora for composting midway through 2008. This greatly increased the composted tonnage.

7040-FR-ADC (Alternative Daily Cover)

Current Status: AO - Alternative and Ongoing

Program Start Year: 1995

Report Year Diversion Tons: 27400.75

Existed before 1990: No Selected in SRRE: No

Owned or Operated: No

**Jurisdiction Notes** 

8010-TR-BIO (Biomass)

Current Status: SO - Selected and Ongoing

Program Start Year: 1990 Report Year Diversion Tons: 31131.04 Existed before 1990: Yes Selected in SRRE: Yes

Owned or Operated: No

Jurisdiction Notes

8020-TR-TRS (Tires)

Current Status: AO - Alternative and Ongoing

Program Start Year: 1999

Report Year Diversion Tons: 0.00

Existed before 1990: No

Selected in SRRE: No

Owned or Operated: No

**Jurisdiction Notes** 

The County received two Waste Tire Amnesty Event Grants from the CIWMB that will fund two seperate two week events for free tire recycling.

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Current Status: SO - Selected and Ongoing	Program Start Year: 1993 Report Year Diversion Tons: 0.00	Existed before 1990: Yes Selected in SRRE: Yes
		Owned or Operated: Yes
Jurisdiction Notes		
0010-HH-MPC (Mobile or Periodic Collection)		
Current Status: SO - Selected and Ongoing	Program Start Year: 1986 Report Year Diversion Tons: 0.00	Existed before 1990: Yes Selected in SRRE: Yes Owned or Operated: Yes
Jurisdiction Notes		
9020-HH-CSC (Curbside Collection)		
Current Status: SO - Selected and Ongoing	Program Start Year: 1992 Report Year Diversion Tons: 0.00	Existed before 1990: No Selected in SRRE: Yes Owned or Operated: No
• .		- Omica of Operation 110
Jurisdiction Notes		
9040-HH-EDP (Education Programs)		
Current Status: SO - Selected and Ongoing	Program Start Year: 1991 Report Year Diversion Tons: 0.00	Existed before 1990: Yes Selected in SRRE: Yes Owned or Operated: Yes
Jurisdiction Notes		
9045-HH-EWA (Electronic Waste)		
Current Status: SO - Selected and Ongoing	Program Start Year: 1995 Report Year Diversion Tons: 0.00	Existed before 1990: No Selected in SRRE: No Owned or Operated: No
Jurisdiction Notes		

# MARIN COUNTY HAZARDOUS AND SOLID WASTE MANAGEMENT JOINT POWERS AUTHORITY

Belvedere:

George Rodericks

Date: January 28, 2010

Corte Madera:

David Bracken

To:

JPA Board

County of Marin:

Matthew Hymel

From: Michael Frost

Fairfax:

Michael Rock

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Household Hazardous Waste Facility CIWMB Grant Status

Report

Larkspur: Robert Sinnot

Mill Valley:
Ann Montgomery

Novato:

Michael Frank

Ross: Gary Broad

San Anselmo: Debbie Stutsman

San Rafael: Ken Nordhoff

Sausalito: Adam Politzer

Tiburon: Margaret Curran In April 2007, the JPA approved application of a \$300,000 CIWMB HHW facility grant, and subsequently approved related budget adjustments. Attached Exhibit "A" outlines the benefits of this grant. The improvements are to take place at the HHW facility funded by the JPA located at 565 Jacoby Street in San Rafael. Marin Recycling and Resource Recovery Association (MRRRA) operate the facility with oversight and permit maintained by the San Rafael Fire Department.

In November 2009, a contract was signed between MRRRA and the JPA, and as of the beginning of January 2010, construction has begun with anticipated completion date of March 1, 2010.

In the process of contracting to expand this grant, multiple issues arose regarding future oversight of the facility. The City of San Rafael requested the JPA reexamine appropriate structure for long term oversight. The Executive Committee has requested staff develop a plan for long term over site. However, in the current economic environment alternatives are not readily available. Staff is continuing to work on this issue and will report at a later date.

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