

Summary of January 2013 Kaua'i Resource Recovery Park (RRP) Draft Feasibility Study (FS) Community Meetings

January 28-29, 2013

A. Introduction

Two community meetings were held in January 2013 with the communities of Kaua'i in the early planning stages of a Resource Recovery (RRP), after publication of the Draft Feasibility Study (FS) to the County website. The purposes of the meetings were to:

1. Present findings and preliminary recommendations of the Draft RRP FS; and
2. Solicit public feedback on the Draft RRP FS.

The two community meetings were held on the following dates and locations:

1. Monday, January 28, 2013, 6:00-8:00 pm, Kekaha Neighborhood Center, Kekaha
2. Tuesday, January 29, 2013, 6:00-8:00 pm, King Kaumuali'i Elementary, Hanama'ulu

The Attachments to this document contain the documents used for public notification, the PowerPoint presentation, the handout provided to the public at the meetings, the sign-in sheets for each meeting, and the written comments received during the meetings.

B. Meeting Process

The County of Kaua'i notified the public in advance of the meetings using multiple media sources during the preceding month. Promotional materials used by the County are summarized in Table 1 and provided in Attachment A.

The agenda for the two meetings included the following:

- Introduction and Meeting Overview
- Presentation
- Public Comments

Prior to each meeting Mayor Carvalho welcomed the audience and thanked all for their patience and attendance. The consultant, AECOM, acted as the presenter and facilitator at the meetings.

The same format was followed for each meeting:

1. A review of the agenda and purpose for the meeting;
2. A power point presentation by the consultants (Attachment B); and
3. Community comments and question and answer period.

Additionally, handouts summarizing the purpose and agenda of the meetings were provided to attendees (Attachment C). Approximately, fifteen (15) and twenty-five (25) people signed-in at the Kekaha and Hanamaulu meetings, respectively.

Table 1
Public Notification of Community Meetings

Item	Description
News Release	Announcing purpose and list of meetings. Issued on 1/11/13.
KONG Radio Ads	4 ads per day for 12 days on 5 KONG stations. 60 second ads. 1/18 – 1/22, 1/25 & 1/26, 1/30 – 2/3.
FM 97 Radio Ads	4 ads per day for 12 days on FM 97. 60 second ads. 1/18 – 1/22, 1/25 & 1/26, 1/30 – 2/3.
Flyer	Disseminated to host community with assistance from Mayor’s Public Information Office.
Public Notice of Meeting	Posted at County Council and Civic Center on 1/24/13.
Garden Island Newspaper (Legal Section)	3 column by 6” ads. Ran for 11 days. 1/17 & 1/18, 1/20 – 1/22, 1/25, 1/27, 1/30 – 2/1, 2/3.
Mid-Week Kaua’i	Half page ad ran in 1/16 and 1/23 issues.

C. Record of Public Comments Received

Public comments received at the two community meetings are listed below.

MEETING NO. 1 – KEKAHA NEIGHBORHOOD CENTER, MONDAY, JANUARY 28, 2013

Meeting Comments:

- How many jobs will the RRP create?
- Shorten and make the presentation more concise. There should be more audience interaction.
- Are there similar-sized RRP’s to Kauai and have they achieved their proposed diversion goals?
- Ways in which different regions/communities can support diversion should be looked into. Incorporate the ahupua’a system.
- Consider making efforts to reduce the cost of transport of recyclables to market through backhauling.
- There should be a greater consideration of the economics behind the RRP.

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- How do we recycle here? What kinds of opportunities are there to make products from recycled material on Kauai? Could Kauai import recyclables if there were plastic reprocessing for instance?
- Can the Counties work together to achieve greater recycling and overcome economies of scale?
- How many acres is the RRP?
- How will the RRP be powered?
- Are there other beneficial uses of food waste? Establish a food recovery network, including houses, restaurants, and hotels.
- What is the proposed start date of the RRP? There should be greater emphasis on the start date and the urgency of starting.
- The County cannot please everyone; there will always be NIMBYs. County must sell it and promote sustainability.
- Need to emphasize monetary incentives to encourage people to recycle.

Written Comments:

- See Attachment E.

MEETING NO. 2 – KING KAUMUALI’I ELEMENTARY, TUESDAY, JANUARY 29, 2013

Meeting Comments:

- Where will the access roadways be located?
- Compact fluorescent light disposal should be included in the RRP.
- Concerned regarding surface and ground water impacts.
- What is the population threshold to make the RRP viable?
- “Resource conservation” part of RCRA is being ignored. Increasing recycling collection throughout the island will increase hauling and use more fossil fuels, etc.
- How will recycling education keep up with new technologies, etc.?
- Where are electronic waste and household hazardous waste going now?
- The 70% diversion goal should be higher.
- The EIS should be for the entire project.
- What is the value of recovered materials? Can the RRP help to pay for itself?
- Who will manage/operate the RRP?
- If the County has budgeting restraints, will the RRP be cut before the landfill?

- How will facilities (in what order) be implemented?
- The runoff considerations associated with paving the site need to be addressed.
- Recommend expanding the convenience of RRP collection to outlying areas.
- Can enough organics be diverted to entirely discount landfill gas-to-energy?
- Where will diversion facilities be located in relation to the landfill? The RRP should be at the landfill entrance.
- Have access roads been decided?
- How was the site chosen? Will the siting be addressed in the EIS?
- Reef tourism is an \$800M industry annually in the state. The site is terrible for watershed and reef protection.
- The landfill and RRP will increase storm water runoff. Is the County planning to basically abandon the watershed to pollution?
- Are 2007 [Beck waste composition study] quantities valid/accurate?
- Who owns the land on the landfill and RRP?
- Concerned about a lot of traffic on Maalo and trucks/cars/road coming from Hanamaulu.
- The current alignment of the Maalo Road and Kuhio Highway junction is dangerous for large rubbish trucks to maneuver.

Written Comments:

- See Attachment E.

Attachment A

Public Notification Material

BERNARD P. CARVALHO, JR.
Mayor



GARY K. HEU
Managing Director

COUNTY OF KAUA'I

DEPARTMENT OF PUBLIC WORKS

News Release

For Immediate Release: January 11, 2013

LARRY DILL, COUNTY ENGINEER
Tel (808) 241-4996
Fax (808) 241-6604

DPW to present updates on new landfill, resource recovery park

Updates on Kaua'i's new municipal solid waste landfill and resource recovery park will be presented by the Department of Public Works' Solid Waste Division at a series of community meetings in the coming weeks.

The county's preferred location for both facilities is a site about a mile north of Hanamā'ulu off of Ma'alo Road.

The presentations will include: the preliminary findings of a feasibility study on the resource recovery park; progress on the environmental impact statement (EIS) regarding the two projects; as well as an overview on both projects.

During the meetings, the public is also invited to provide input on these solid waste projects.

The primary focus of the January meetings will be on the Resource Recovery Park Feasibility Study (RRPFS), which analyzes potential waste reduction, reuse, and recycling processes to determine their suitability for Kaua'i:

- Monday, Jan. 28, 6 to 8 p.m. – Kekaha Neighborhood Center
- Tuesday, Jan. 29, 6 to 8 p.m. – King Kaumuali'i Elementary School cafeteria

The February meetings will center on the environmental impact statement:

- Tuesday, Feb. 5, 6 to 8 p.m. – King Kaumuali'i Elementary School cafeteria

- Wednesday, Feb. 6, 6 to 8 p.m. – Kekaha Neighborhood Center

The Draft RRPFS and the Draft EIS preparation notice are available on the county website at: <http://www.kauai.gov/NewLandfillSite>.

For more information or to request special assistance or an auxiliary aid in order to attend a meeting, please contact the Solid Waste Division at 808-241-4837 or afrale@kauai.gov at least five days prior to the meeting.

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Radio Public Service Announcement 60 seconds

The County of Kaua'i Solid Waste Division will host a series of community meetings to present preliminary findings and recommendations of the Draft Resource Recovery Park Feasibility Study... and an update on the progress of the New Municipal Solid Waste Landfill and Resource Recovery Park Environmental Impact Statement.

At each meeting we will present preliminary findings and obtain public comments on the projects.

The Resource Recovery Park Feasibility Study meetings will be held from 6 to 8 pm on:

- Monday, January 28, at the Kekaha Neighborhood Center **AND ON**
- Tuesday, January 29 at King Kaumuali'i Elementary in Hanama'ulu

The Environmental Impact Statement meetings will also be held from 6 to 8 pm on:

- Tuesday, February 5 at King Kaumuali'i Elementary **AND ON**
- Wednesday, February 6 at the Kekaha Neighborhood Center

Please visit our website at Kaua'i.gov/new-landfill site to view the draft documents that will be discussed in the meetings.

For more information call 241-4837.

Bernard P. Carvalho, Jr.
Mayor



Larry Dill, P.E.
County Engineer

Gary K. Heu
Managing Director

Lyle Tabata
Deputy County Engineer

DEPARTMENT OF PUBLIC WORKS

Solid Waste Division

County of Kaua'i, State of Hawai'i

4444 Rice Street, Suite 275, Līhu'e, Hawai'i 96766
TEL (808) 241-4839 FAX (808) 241-6887

January 24, 2013

**AMENDED Notice of Community Meetings on
Kaua'i Resource Recovery Park Draft Feasibility Study
and
Environmental Impact Statement Preparation Notice
for the New Municipal Solid Waste Landfill and Resource Recovery Park**

Meetings are from 6:00 pm to 8:00 pm on the following dates
Note that west side locations have changed to the Kekaha Neighborhood Center

Draft RRP FS Meetings:

- Monday, January 28, 2013, Kekaha Neighborhood Center, Kekaha, Kaua'i
- Tuesday, January 29, 2013, King Kaumuali'i Elementary, Hanama'ulu, Kaua'i

EIS Meetings:

- Tuesday, February 5, 2013, King Kaumuali'i Elementary, Hanama'ulu, Kaua'i
- Wednesday, February 6, 2013, Kekaha Neighborhood Center, Kekaha, Kaua'i

The County of Kaua'i Department of Public Works, Solid Waste Division, will host a series of community meetings on the island of Kaua'i to present the preliminary findings and recommendations of the Draft Resource Recovery Park (RRP) Feasibility Study (FS) and to update the community on the progress of the New Municipal Solid Waste Landfill and Resource Recovery Park (RRP) Environmental Impact Statement (EIS) project. The goal of the each meeting is to present the preliminary findings of both documents, and obtain public comments and concerns on the projects.

The RRP is intended to provide a convenient 'one stop service center' where the public can conduct all of its reuse, recycling, waste reduction, and related activities. The RRP is expected to be implemented in conjunction with the proposed new landfill, and is intended to help maximize opportunities to reduce, reuse, and recycle, thereby also minimizing the landfilling of waste.

A Final Environmental Assessment (FEA)/EIS Preparation Notice (EISPN) has been prepared to address the County's preferred alternative for future waste management, which includes the new Landfill and RRP located near Ma'alo Road, Kaua'i. The existing Kekaha Landfill is projected to reach capacity in the coming years. Therefore, a new MSWLF will be required to achieve the project objective of providing for the proper disposal of all forms of MSW that cannot practicably be further reused, recycled, or otherwise recovered.

The Draft RRP FS and EISPN are available on the County website at: www.kauai.gov/NewLandfillSite

Please call the County Solid Waste Division with questions at 808-241-4837.

NOTE: Special accommodations and sign language interpreters and interpreters for non-English speaking persons are available upon request five (5) days prior to the meeting date. To request an accommodation please contact the County Solid Waste Division at 241-4837 or via email at afrale@kauai.gov.

Notice of Community Meetings
Kaua'i Resource Recovery Park Feasibility Study and Environmental
Impact Statement (EIS) for a
New Municipal Solid Waste Landfill and Resource Recovery Park

The County of Kaua'i Department of Public Works (County), Solid Waste Division, will host a series of community meetings on the island of Kaua'i to present the preliminary findings and recommendations of the Draft Resource Recovery Park (RRP) Feasibility Study (FS) and to update the community on the progress of the New Municipal Solid Waste Landfill (MSWLF) and RRP Environmental Impact Statement (EIS) project.

The goal of each meeting is to present the preliminary findings for both projects, and obtain public comments and concerns on the projects.

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A Final Environmental Assessment (FEA)/EIS Preparation Notice (EISPN) has been prepared to address the County's preferred alternative, which includes the new MSWLF and RRP located off of Ma'alo Road, Kaua'i. The existing Kekaha MSWLF is projected to reach capacity in the coming years. Therefore, a new MSWLF will be required to achieve the project objective of providing for the proper disposal of all forms of MSW that cannot practicably be further reused, recycled, or otherwise recovered.

The public is encouraged to attend the community meetings, which will be held from 6:00 to 8:00 PM, at the following dates and locations:

RRP FS Meetings:

- Monday, January 28, 2013, Kekaha Neighborhood Center, Kekaha, Kaua'i
- Tuesday, January 29, 2013, King Kaumuali'i Elementary, Hanama'ulu, Kaua'i

EIS Meetings:

- Tuesday, February 5, 2013, King Kaumuali'i Elementary, Hanama'ulu, Kaua'i
- Wednesday, February 6, 2013, Kekaha Neighborhood Center, Kekaha, Kaua'i

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(January 17, 18, 20, 21, 22, 25, 27, 30 & 31, 2013 and February 1 & 3, 2013)

Notice of Community Meetings Kaua'i Resource Recovery Park Feasibility Study and Environmental Impact Statement (EIS) for a New Municipal Solid Waste Landfill & Resource Recovery Park

The County of Kaua'i Department of Public Works (County), Solid Waste Division, will host a series of community meetings on the island of Kaua'i to present the preliminary findings and recommendations of the Draft Resource Recovery Park (RRP) Feasibility Study (FS) and to update the community on the progress of the New Municipal Solid Waste Landfill (MSWLF) and RRP Environmental Impact Statement (EIS) project.

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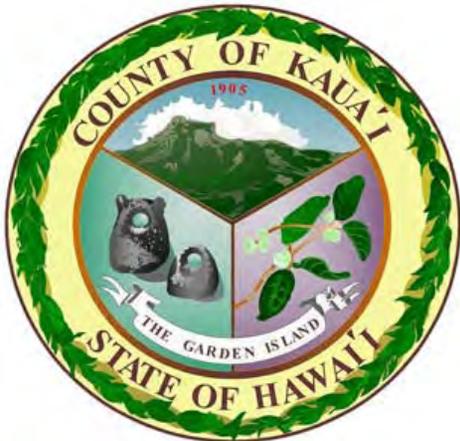
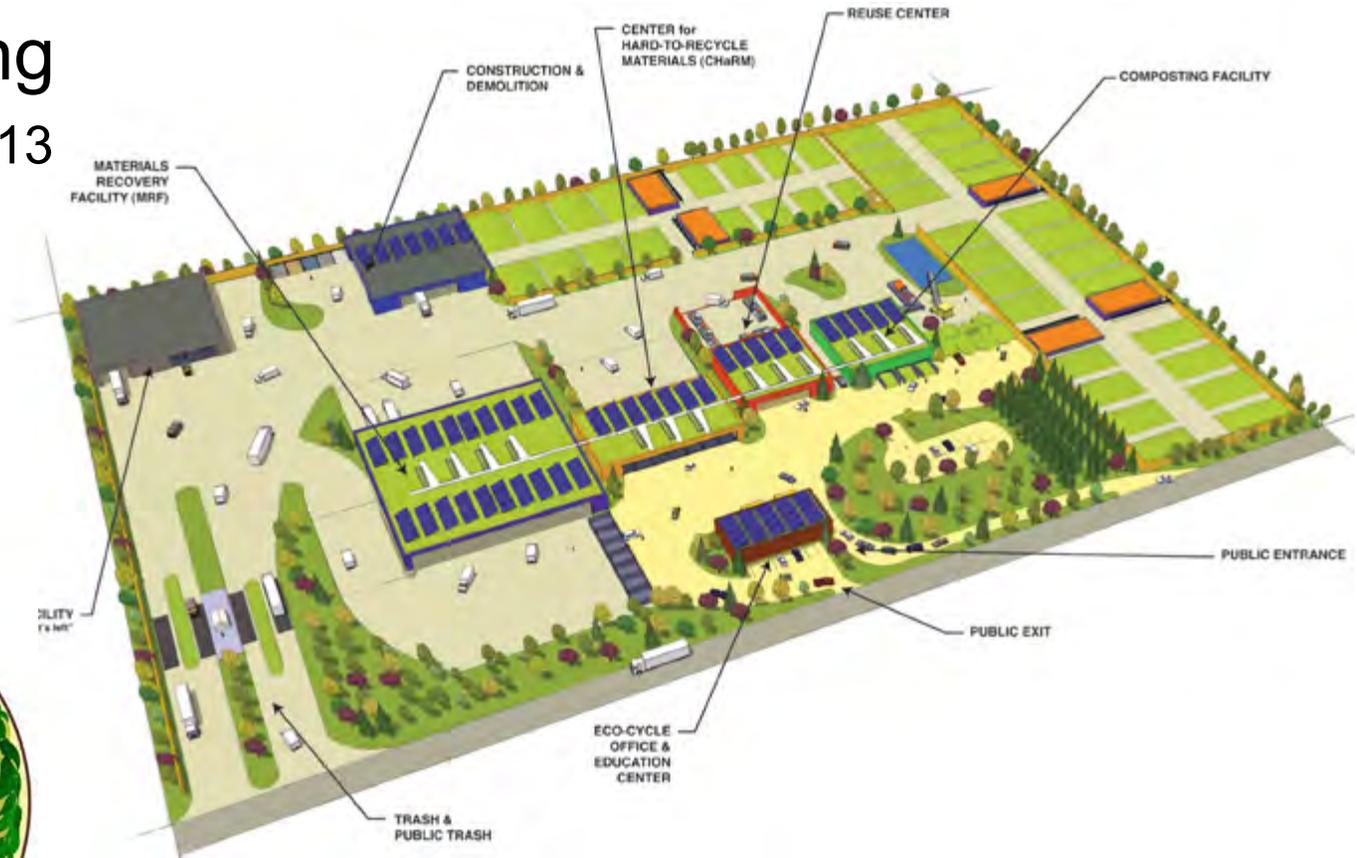
Attachment B

Powerpoint Presentation

Kaua'i Resource Recovery Park

Draft Feasibility Study

Public Meeting
January 28-29, 2013



MEETING OUTLINE

- 1) Background and Purpose
- 2) RRP Feasibility Study (FS)
- 3) Kaua'i Waste Quantities and Existing Programs
- 4) Potential Components
- 5) Impacts
- 6) Recommendations
- 7) Next Steps
- 8) Public Comments



BACKGROUND AND PURPOSE

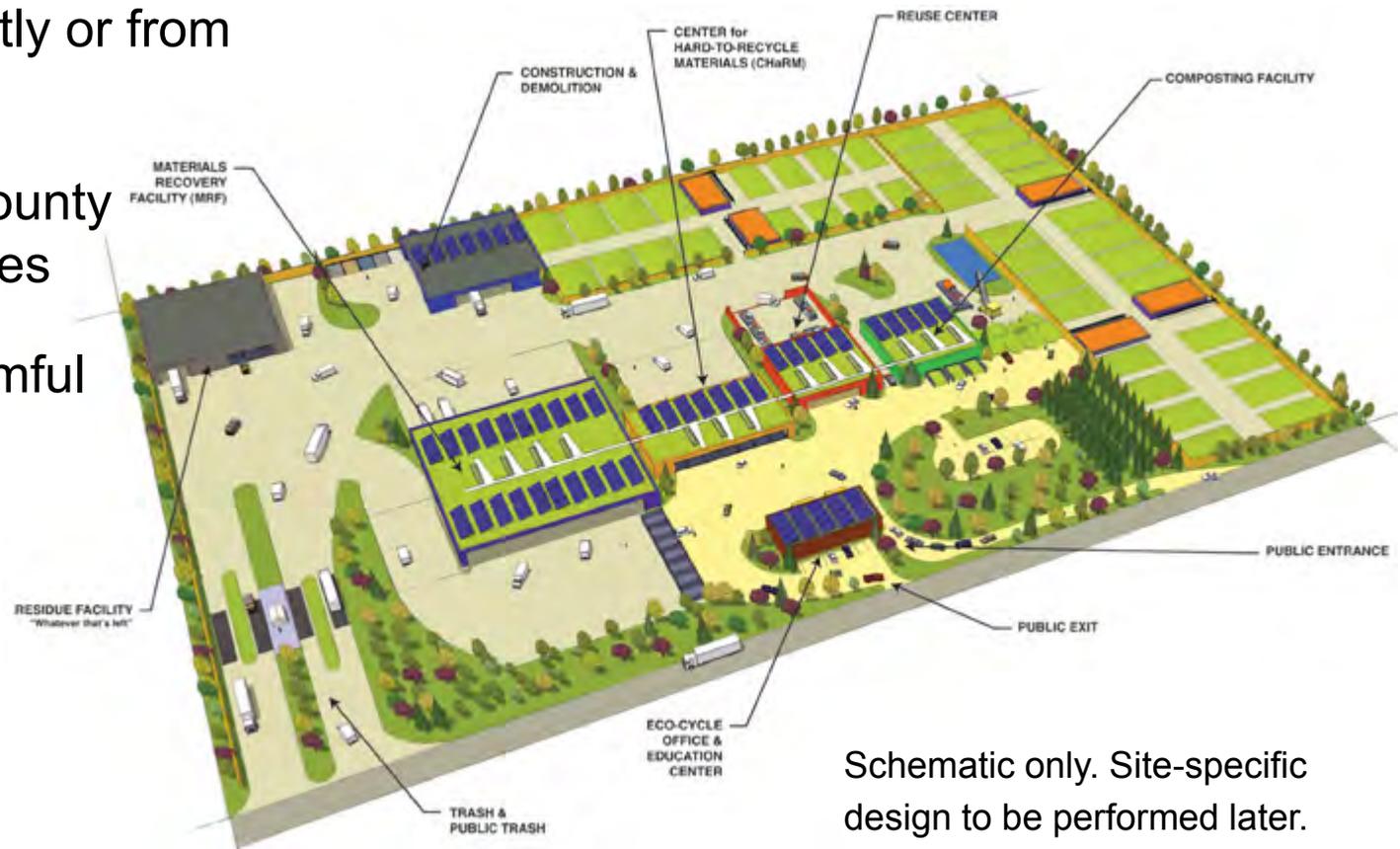
- County waste diversion goals
- Purpose of the RRP FS:
 1. Analyze potential RRP components
 2. Quantify costs and benefits; make recommendations
 3. Develop conceptual facility design
- Purpose of these meetings:
 1. Present preliminary recommendations
 2. Solicit public feedback



WHAT IS A RESOURCE RECOVERY PARK (RRP)?

“One-stop service center”

- Received directly or from curbside
- Supplement County diversion policies
- Can target harmful material
- Modular
- Flexibility
- Cost Savings



Schematic only. Site-specific design to be performed later.

RRP FS AND EIS GOALS

- ❑ Provide County with flexibility to respond to changing conditions
 - Supplement existing decentralized facilities
 - » Existing facilities need not close
 - » But if they do, County has options
 - All facilities need not be implemented at once
 - » Facilities may change with economic conditions

- ❑ Design and EIS process allow implementation if:
 - Existing facilities close or change
 - Technologies change
 - Economic conditions change, e.g., recycling revenues



OVERVIEW OF THE RRP PROCESS

1. Draft RRP FS

- Assess each potential facility
- Make recommendations
- Obtain public feedback

Download the Draft RRP FS at:
www.kauai.gov/NewLandfillSite

2. Final RRP FS

3. Conceptual Design

4. EIS

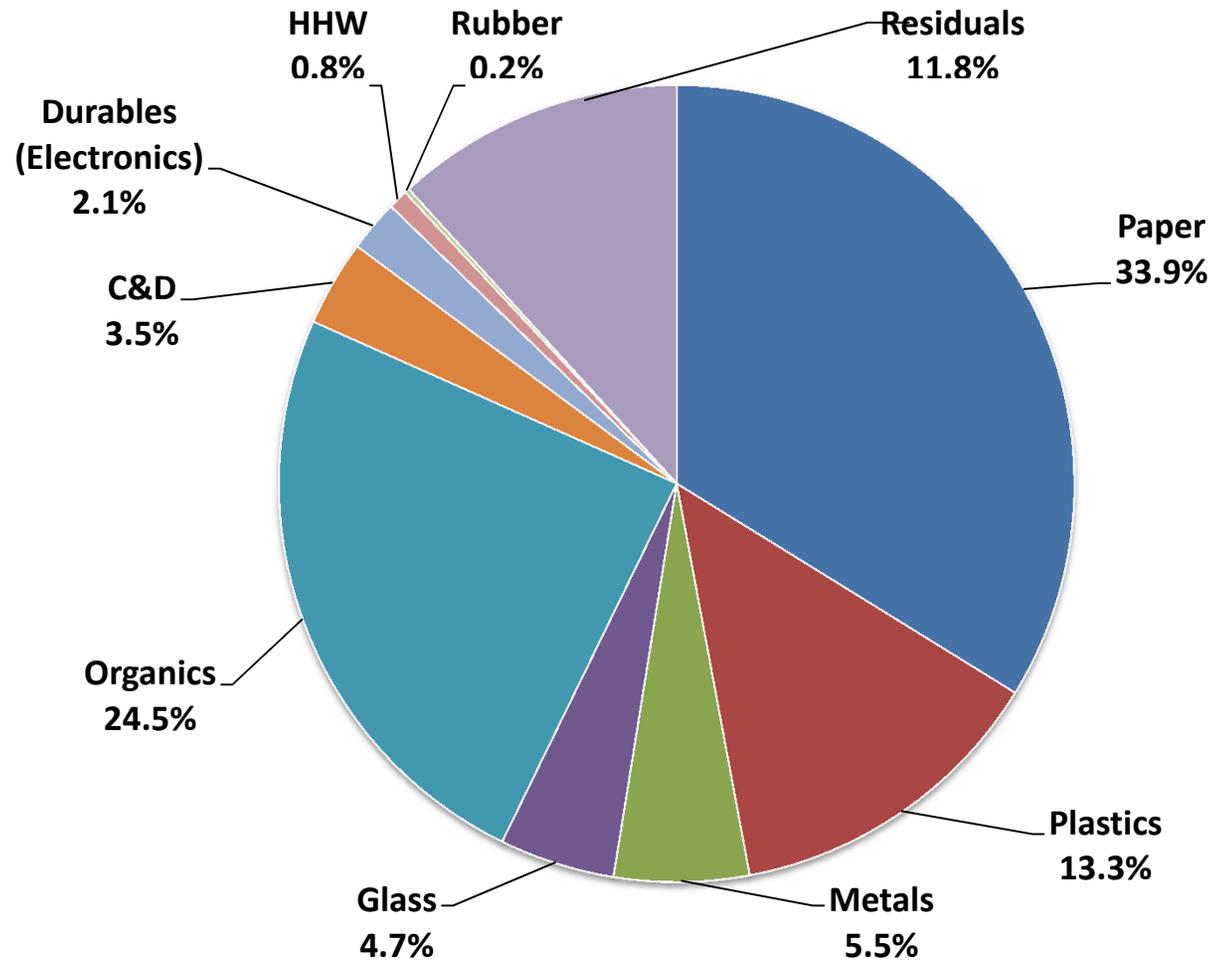


POTENTIAL RRP FACILITIES

1. Integrated Public Drop-off and Reuse Facility
2. Recyclables and Waste Drop-off
3. Household Hazardous Waste Depot
4. Electronic Waste Depot
5. Metals Recycling Facility
6. C&D Material Processing and Recycling Facility
7. Used Tire Processing Facility
8. Center for Hard-to-Recycle Materials
9. Reuse Center
10. Educational Center
11. Materials Recovery Facility
12. Composting Facility
13. Anaerobic Digestion of Biomass
14. Biorefinery
15. Landfill Gas to Energy Facility
16. Waste to Energy
17. Waste to Fuel



WASTE QUANTITIES & COMPOSITION



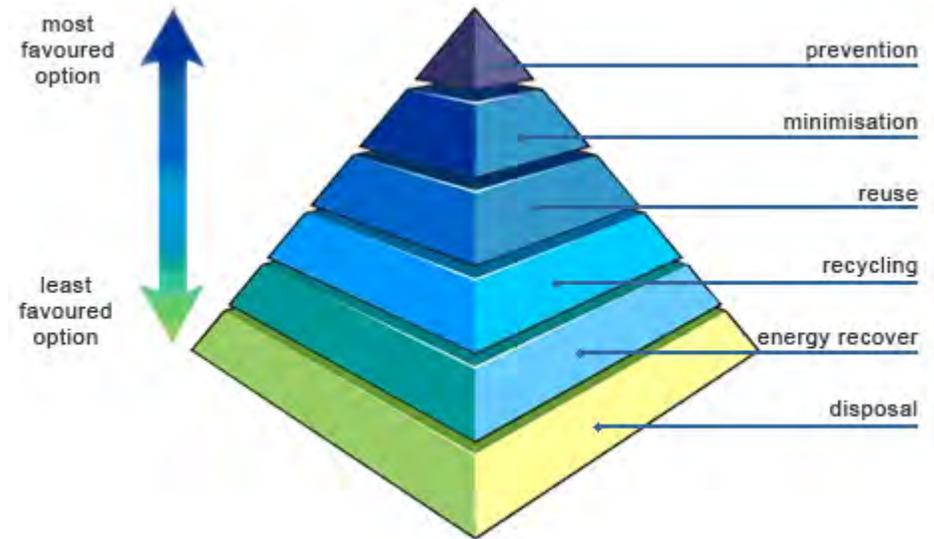
Source: Waste Composition Study, RW Beck, 2007

➤ County's diversion goals are achievable with the proper policies and facilities



EXISTING KAUA‘I WASTE DIVERSION ACTIVITIES

- Wide range of County programs, including:
 - Drop bins
 - State HI5 recycling
 - Metals recycling
 - Special events (HHW, Electronics)
 - Future curbside collection
- Some private programs (e.g., C&D)



RRP SERVICE AREAS

Three RRP service areas:

1. Integrated Public Drop-off and Reuse Facility
2. Curbside & commercial drop off areas
3. Processing, storage and bulky item management areas



1. INTEGRATED PUBLIC DROP-OFF AND REUSE FACILITY

Drop-off for:

- Concrete
- Rubble
- Clean soil
- Asphalt

Drop-off for:

- Dry wall
- Ferrous & non-ferrous metals
- Tires
- Non treated wood
- Treated wood

Schematic only. Site-specific design to be performed later.

Residential Waste Drop-off Area

Recyclables drop-off-area

HHW/e-Waste drop-off

White goods drop-off

- **Benefits:**
 - Up to 19,000 TPY (13% of total)
 - Convenient & Year-round
- **Costs: \$9M (Capital)**
\$1.4M (O&M)
- ✓ **Recommended**

Typical Re-use Center



1. INTEGRATED PUBLIC DROP-OFF AND REUSE FACILITY

Integrated Facility Cost Includes:

- Recyclables and Waste Drop-off
- Household Hazardous Waste Depot
- Electronic Waste Depot
- Metals Recycling Receiving Facility
- C&D Material Processing and Recycling Facility
- Used Tire Processing Facility
- Center for Hard-to-Recycle Materials
- Reuse Center
- Educational Center



2. RECYCLABLES AND WASTE DROP-OFF

- Recyclables Drop-off
- HI-5 Redemption Center
- Residential Waste Drop-off
- **Benefits:**
 - Convenience = increased diversion
- **Cost:** (included)*
- ✓ Recommended



* Costs included in the Integrated Facility costs

3. HOUSEHOLD HAZARDOUS WASTE DEPOT

Aerosols, batteries, oil, paint, cleaning products, pesticides, etc.

- **Benefits:**
 - Remove harmful materials, improve landfill leachate quality
 - Reuse opportunities
 - Estimated 370 TPY
 - Year-round collection
- **Cost:** (included)*
- ✓ Recommended



* Costs included in the Integrated Facility costs



4. ELECTRONIC WASTE DEPOT

- **Benefits:**
 - Remove harmful materials, improve landfill leachate quality
 - Reuse opportunities
 - Up to 300 TPY (<0.1%) diversion
 - Year-round collection
- **Cost:** (included)*
- ✓ Recommended



* Costs included in the Integrated Facility costs

5. METALS RECYCLING FACILITY

Scrap metal, propane tanks, appliances, vehicles, etc.

- **Benefits:**
 - Approx. 4,700 TPY (3%) diversion
 - Recovery of valuable metals
- **Cost:** Up to \$2 million (Capital); \$560,000 (O&M)
- ✓ Recommended



6. CONSTRUCTION & DEMOLITION (C&D) MATERIAL PROCESSING AND RECYCLING FACILITY

Concrete, brick, block, asphalt, lumber, plaster board, drywall, cabinets, doors, windows, roofing, etc.

- **Benefits:**
 - Potentially 16,000 TPY (11%) diversion
 - Phased implementation
 - Material re-use
- **Cost:** Up to \$1.4 million (Capital); \$870,000 (O&M)
- ✓ Recommended



7. USED TIRE PROCESSING FACILITY

- **Benefits:**
 - Potentially 80,000 tires (1%) diverted
- **Cost:** \$250,000 (Capital); \$165,000 (O&M)
- ✓ Recommended



8. CENTER FOR HARD-TO-RECYCLE MATERIALS

Variety of materials (small quantities & limited markets/uses), including:

- Some plastics (e.g., large durables, polystyrene, foam blocks)
- Household items (e.g., textiles, hard cover books, mattresses)

- **Benefits:**

- <1% of the total waste stream may be diverted
- Flexibility to respond to changes
- Reuse opportunities

- **Cost:** (included)*

✓ Recommended



* Other costs included in the Integrated Facility costs

9. REUSE CENTER

Clothing, furniture, computers, sporting equipment, housewares, building materials, etc.

- **Benefits:**
 - <1% diversion
 - High value diversion
 - Highly visible diversion
 - Potential value added (repairing or refurbishing)

- **Cost:** (included)*
- ✓ Recommended

* Costs included in the Integrated Facility costs



10. EDUCATIONAL CENTER

- Meeting facilities & staging area
- MRF viewing gallery
- **Benefits:**
 - Education of keiki critical to promote reduction, reuse & recycling
 - Training/research opportunities
- **Cost:** (included)*
- ✓ Recommended



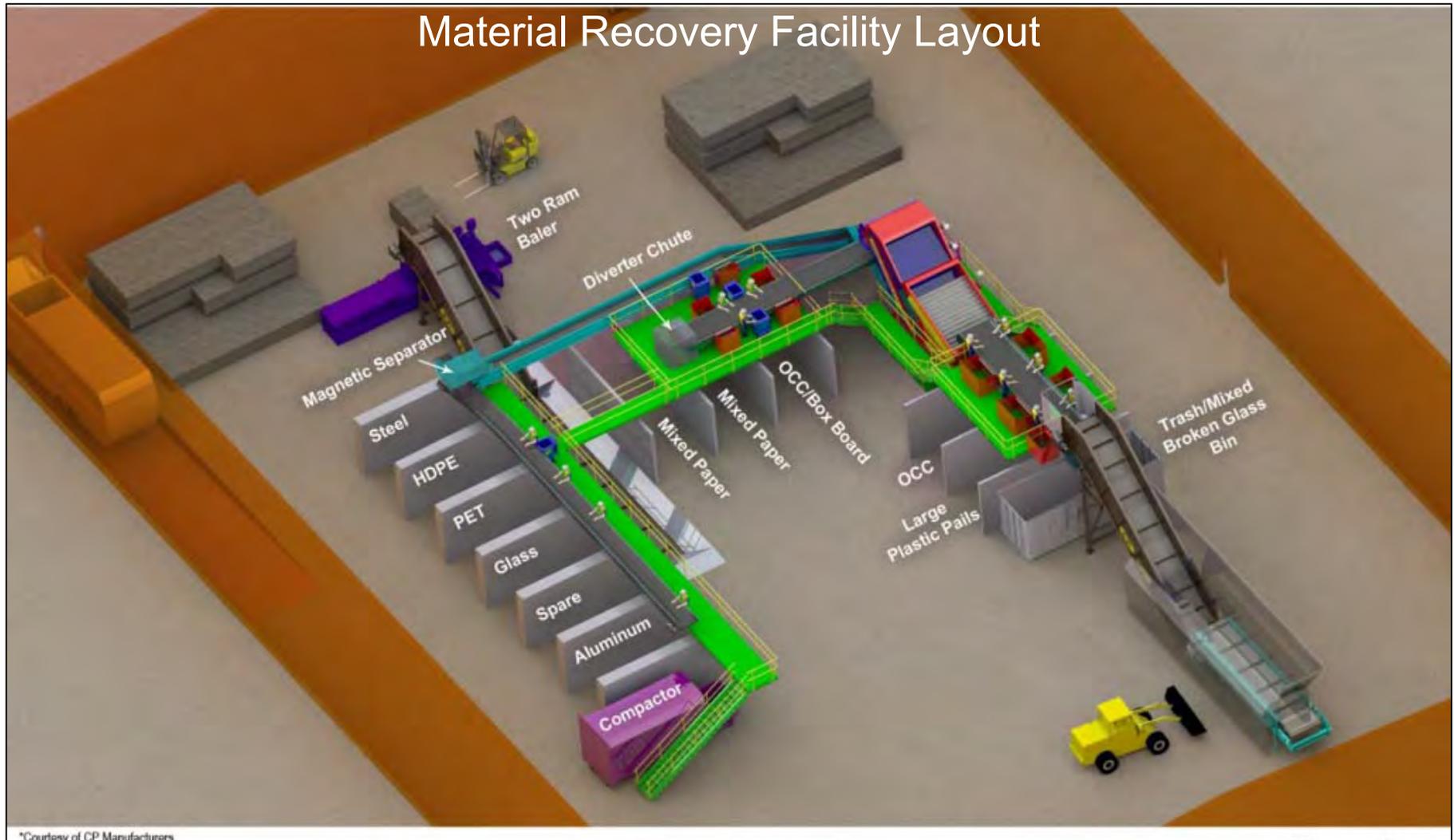
* Costs included in the Integrated Facility costs

11. MATERIALS RECOVERY FACILITY (MRF)

- Sort recyclables
- Support curbside collection of single-stream recyclables
- **Benefits:**
 - 25,000 TPY (17%) diversion
 - Single stream enhances participation
 - Modular
- **Cost:** \$8.7 million (Capital); \$950,000 (O&M); less revenue
- ✓ Recommended



11. MATERIALS RECOVERY FACILITY



Schematic only. Site-specific design to be performed later.

12. COMPOSTING FACILITY

Technology can evolve, over time:

1. Windrow composting (greenwaste)
2. Aerated static pile (add food, etc.)
3. Advanced technology

- **Benefits:**

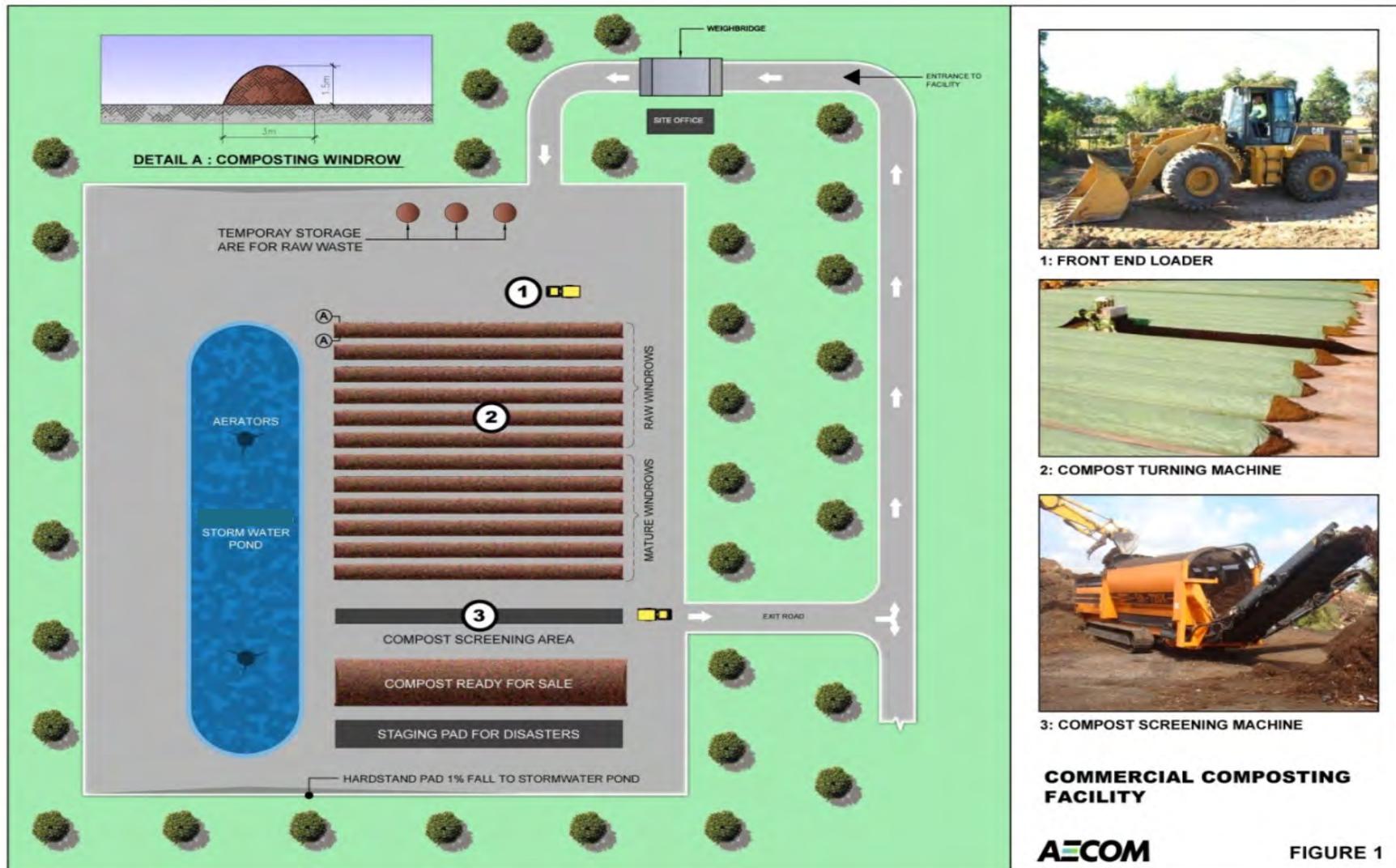
- 34,000 TPY (23%) diversion
- Usable, beneficial end product
- Phased development

- **Cost:** \$3 million (Capital); \$350,000 (O&M)

✓ Recommended



12. COMPOSTING FACILITY SCHEMATIC



Schematic only. Site-specific design to be performed later.



13. ANAEROBIC DIGESTION (AD) of BIOMASS

Alternative to composting

- **Concerns:**
 - Not effective for greenwaste
 - Very few AD facilities for MSW (unproven/risky)
 - Composting more cost effective
- **Costs:** >\$10M (Capital); over \$500 per ton processed (O&M)
- ❖ Not currently recommended



14. BIOREFINERY FACILITY

Produce fuel from biomass

- **Concerns:**

- County waste may not meet quantity and quality requirements
- A private company has initiated a biomass-to-fuel project on Kaua'i
- Not proven for MSW
- Paper waste better managed via MRF

❖ Not currently recommended



15. LANDFILL GAS to ENERGY FACILITY

- Landfill gas generated through decomposition of organic material
- Use LFG to generate electricity
- **Benefits:**
 - Beneficial use of LFG
 - Reduce greenhouse emissions
 - Up to 3.7 MW potential
 - Potential revenue up to \$1.7 M annually
- **Cost:** \$2.3 million (initial Capital); \$133,000 (initial O&M)
- ✓ Recommended



16. WASTE to ENERGY FACILITY

- Direct incineration of waste generates electricity
- Residuals and ash are landfilled
- Requires guaranteed feedstock
 - Financial risk to County
- **Benefits:**
 - Process 96,000 TPY (65%)
 - Divert 72,000 TPY (49 %)
 - Reliable technologies, e.g., mass burn (H-POWER)
 - Compatible with recycling and composting
- **Cost:** \$150M (Capital); \$120 per ton (O&M)
- ❖ Not recommended for immediate implementation
 - Area set aside for future



17. WASTE to FUEL FACILITY

Process MSW to produce solid or gaseous fuel:

1. Refuse-derived fuel (RDF) used for remote markets
 2. Gasification of MSW still being demonstrated
- Potential for 41% diversion
 - Concerns:
 - Lack of market for RDF on Kauai.
 - Energy better recaptured directly
 - Paper better managed via MRF
 - ❖ Not currently recommended



RECOMMENDED RRP FACILITIES

1. Integrated Public Drop-off and Reuse Facility
 2. Recyclables & Waste Drop-off
 3. Household Hazardous Waste Depot
 4. Electronic Waste Depot
 5. Metals Recycling Facility
 6. C&D Material Processing and Recycling Facility
 7. Used Tire Processing Facility
 8. Center for Hard-to-Recycle Materials
 9. Reuse Center
 10. Educational Center
 11. Materials Recovery Facility
 12. Composting Facility
 13. Landfill Gas to Energy Facility
 14. Future Option: Waste to Energy Facility
- Diversion goal of 70% can be met



POTENTIAL ENVIRONMENTAL AND CULTURAL IMPACTS

Potential impacts and mitigation measures to be analyzed in the EIS:

- Surface Water
- Groundwater
- Air emissions
- Nuisances
- Cultural & Socio-economic



NEXT STEPS

1. Draft Feasibility Study:

- www.kauai.gov/NewLandfillSite
- Comments due by Tuesday, February 12, 2013

2. Final RRP FS

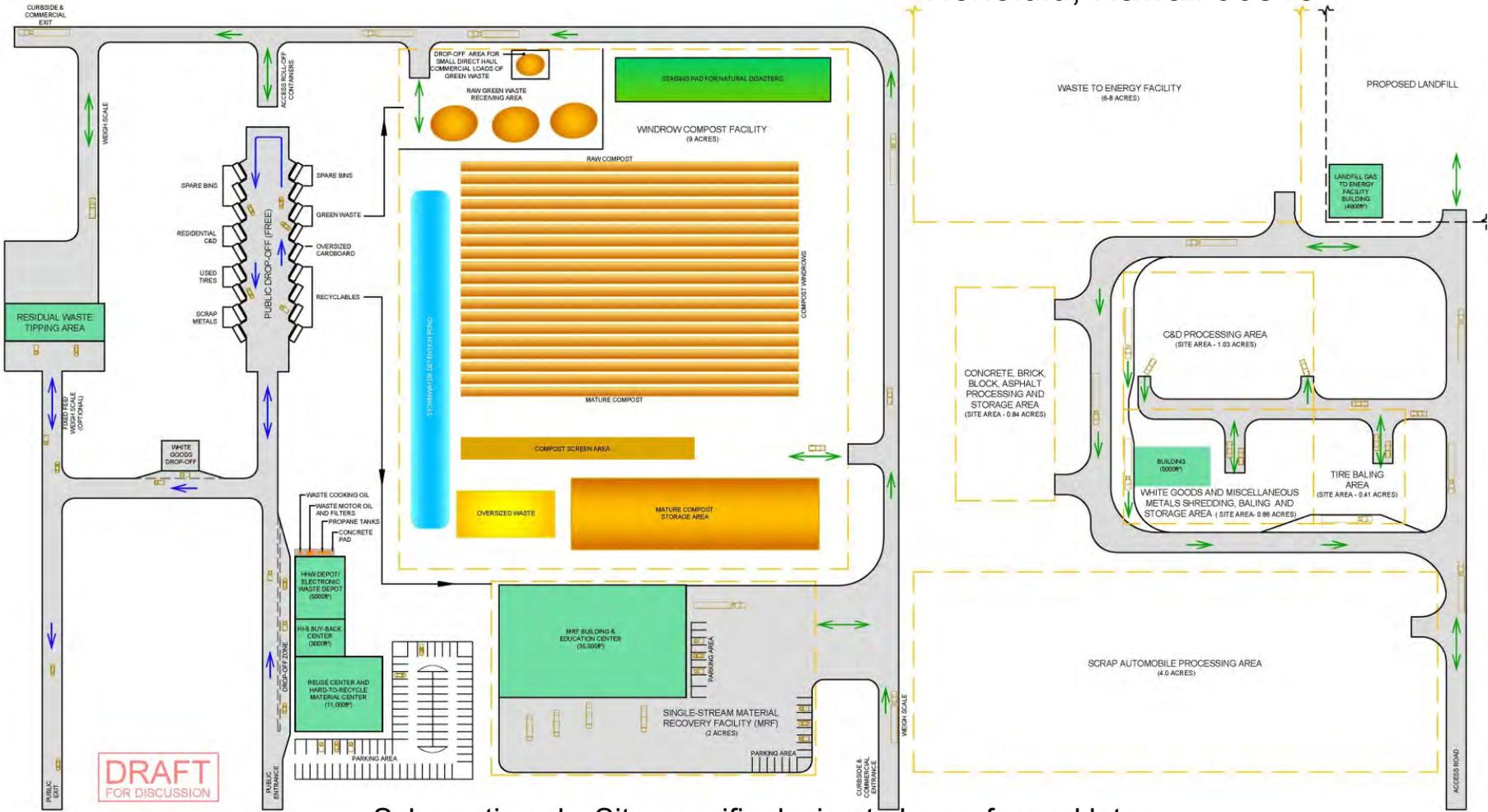
3. RRP Conceptual Design

4. EIS



COMMENTS? CONCERNS?

AECOM
Re: Kauai RRP
1001 Bishop St. #1600
Honolulu, Hawaii 96813



Schematic only. Site-specific design to be performed later.



Attachment C

Meeting Handout

Kaua'i Resource Recovery Park (RRP)

Draft Feasibility Study (FS)

Community Meetings

Purpose of these Meetings:

These two public meetings are being conducted to:

1. Present preliminary recommendations
2. Solicit public feedback

Public Meetings:

- Monday, January 28, 2013, 6:00-8:00 pm, Kekaha Neighborhood Center, Kekaha, Kaua'i
- Tuesday, January 29, 2013, 6:00-8:00 pm, King Kaumuali'i Elementary, Hanama'ulu, Kaua'i

Purpose of Resource Recovery Park Feasibility Study (RRP FS):

- Analyze Kaua'i's waste stream and potential RRP components
- Quantify costs and benefits; make recommendations
- Develop conceptual facility design
- Provide input to the EIS

The Draft RRP FS is available on the County's New Landfill website:

www.kauai.gov/NewLandfillSite

Comments/Concerns:

Email comments to: Kauai-RRP@aecom.com

Mail comments to: AECOM

Re: Kauai RRP

1001 Bishop Street, #1600

Honolulu, HI 96813

Comments must be received no later than midnight, the evening of Tuesday, February 12, 2013.

Resource Recovery Park (RRP) Draft Feasibility Study

- A RRP is a “one-stop service center” for waste reduction, reuse, and recycling, and includes a comprehensive and integrated set of programs and facilities co-located on a single site to promote recycling and help the County realize savings.
- Recommended RRP facilities described in this FS and analyzed in the EIS are *potential* facilities, which may be implemented in stages, in response to market and other conditions. Some facilities may or may not ever be implemented at the RRP (e.g., those that duplicate existing facilities).
 - Inclusion of all *potential* facilities in the FS and the EIS does not commit the county to actual development of any one facility, but provides the option.
- Recommended RRP facilities
 1. Integrated public drop-off and reuse facility
 2. Recyclables and waste drop-off
 3. Household hazardous waste depot
 4. Electronic waste depot
 5. Metals recycling facility
 6. C&D material processing and recycling facility
 7. Used tire processing facility
 8. Center for Hard-to-Recycle Materials
 9. Reuse center
 10. Educational center
 11. Materials Recovery Facility (MRF)
 12. Composting facility
 13. Landfill gas to energy facility
 14. Waste to energy facility (possible future option)

The Draft RRP FS is available on the County’s New Landfill website:

www.kauai.gov/NewLandfillSite

Attachment D

Sign-In Sheets

Sign-In - Kekaha
Waimea

1/28/13

<u>Name</u>	<u>Address</u>
J. Ingusoll	kapa a
Dick Somo	Kapaia
Dennis Fujimoto	LITTLE
Evelyn Yobores	Kekaha
Steven Pereira	Hanapepe
Brian Morgenroth	Kekaha
Jose Bulatao, Jr.	Kekaha
Hymn Bica	Kekaha
Buddie Ayuda	Kekaha
Burling B. Benford	Kekaha
	P.O. Box 471 KAPAA 96746
Roland S. M. III	P.O. Box 958 Lanai, 96765
Kathleen West-Hurd	Hanapepe
Liberta L. Lohso	PO Box 164 Kapaia, Kawaii 96746
Aarber Alumbaygren	PO Box 355, Kekaha HI 96752
Ruthie Barry	PO Box #1 Kekaha

Kauai Draft RRP Community Meeting

Jan. 29, 2013

Lihue

<u>Name</u>	<u>Address / Town</u>
Loea Keandaha DATOR, BONNIE P. PAT GEGEN	P.O. Box 30848 Anahola Hawaii 96703-0848 P.O. Box 30848 ANAHOA Hawaii 96703-0848 KALAEHO
Eddie Sripa	5088 Paka Dr. LIHUE
Florentino Duterte	P.O. Box 474 Hanalei Hawaii 96715
JoAnn Carvalho	3351 ELIMA ST. LIHUE 96766
Laurie Kelle Koma	Hanamaulu
ARNOLD LOZAN	Hanalei HI 96714 PO Box 56
David Longmore	2412 Kipuka St. Koloa 96756
Jamur Carvah	3351 ELIMA ST / 4611 MAALO RD
Ginger Carlson	Maalo Rd
Paulina Oria	4937 Waiaki St. LIHUE HI 96766
Tan Ten Bruggencate	2878 PUAUANI ST. LIHUE
Rayne Regush	Waiua
Ego Aguan	Waiua Hanalei

Name

Address/Town

David & Nina Monasowitch

4457
Laukini Rd. Lihue 96766

Kimo St John

4453 Laukini Rd

WILLIAM 'BUTCH' BUDDINGH

3492 MAOWA RD, LIHUE.

KEN TAYLOR

1720-A Makaleha Pl. ^{Kapea} 96746

RANDY FRANCISCO

HANAPEPE HI 96716

JOHN WASSER

ANAHOLA

Angel Madrid

4680 OPUKEA STREET

Wmaw Suihate

6491 Kaahale st Kapea 96746

Lelan Nishel

3-1550 Kounuakali Hwy Lihue 96766

Cindy Yulert

3904 Hoolepe st Lihue (Hanomani)

Attachment E

Written Comments Received

KAUAI RESOURCE RECOVERY PARK (RRP)
DRAFT FEASIBILITY STUDY (FS)

COMMUNITY COMMENT
FORM

I have the following comments on the Draft RRP FS:

You need to seriously consider the following:

1. How to make your presentations BRIEF and relevant to your audience.
2. That it is not necessary to go into detail which your audience will not be able to retain.
3. Select "highlights" that will capture your audience's interest and attention.
4. Consider ways in which small-group discussions may be used to maximize opportunities for community members to participate in the process of inter-action on the subject being discussed.

Optional:

Name: _____ email: _____

COMMENTS MUST BE RECEIVED BY JULY 30, 2013

ALTERNATIVELY, EMAIL COMMENTS TO:

KAUAI-RRP@AECOM.COM

From: Jose Bulatao, Jr [mailto:mrb@hawaiiink.net]

Sent: Tuesday, January 29, 2013 9:11 AM

To: Mayor; Beth Tokioka; Donald Fujimoto; Larry Dill; Lyle Tabata; Troy Tanigawa; Allison Fraley; Laura Kelly

Cc: buddieoh@hotmail.com

Subject: in retrospect

First of all, mahalo for the time and effort to keep the community informed and apprised of the realm of possibilities in establishing new ways in which we should be handling our opala here on Kauai.

It is a monumental task and the enormous amount of work that has been put into this effort is readily apparent.

I humbly offer these suggestions for your consideration:

1. While it is understandable that you wish to provide the wealth of information that is pertinent to the project, TOO MUCH information at one sitting may not be the best way to accomplish that task. There is simply an over-abundance of information that cannot be retained.
2. I think it would be more palatable to let your audience know where to get the information for them to review at their leisure if they want to get ALL of the detailed information. That way, the presentation can be presented with efficiency by HIGHLIGHTING particular aspects which may be of interest.
3. I would strongly suggest to concentrate on the factors that will be the "leading components" of the pitch. Imagine, if you will, being a car salesman! In making the sale, which highlights should be featured? Efficiency? Savings? Economic Viability? Whatever the case may be, by focusing on some of those key points, I think your audience may retain interest and enthusiasm in the subject matter.
4. It may not be possible to get things done by tonight, but if you could concentrate on a few of the audio-visual aspects to concretize the concept or the plan.....do so.
5. If you are going to retain "several parts" to the presentation, I think it would be far better to be as brief and concise with each part, and allow for a 5 to 10 minute follow-up session of questions and/or comments to that part so that there could be focused inter-change among those in attendance on what is being discussed. It is never "more effective" to go through the ENTIRE MEAL without enjoying each of the courses. We enjoy each of the separate parts of a 9 course dinner for what each is!
6. You should be asking yourselves these questions: What do I want to accomplish? What are the different ways in which I can make this information interesting and relevant to my audience? How can I get them to respond? In doing so, you may want to limit each segment with 3 to 5 components so as not to overwhelm your audience with every detail about every aspect each step of the way. If the audience gets so "into" what you are saying, you might have to head them off by letting them know that you appreciate their enthusiasm and interest, but the meeting has planned a lot more, so they will have to wait until "next time". If they want to stay

on the subject, YOU (the speaker) can decide whether you should continue because you have been so successful.....or you can say....."It's time to move on!"

I commend you for your commitment and dedication in the monumental work you are doing. It is in the "presentation of the material" which requires some fine-tuning.

When roasting a pig (lechon, Filipino-style), one does not shove the whole pig down people's throats all at one time!

Sincerely,
Jose/MrB

KAUAI RESOURCE RECOVERY PARK (RRP)
DRAFT FEASIBILITY STUDY (FS)

COMMUNITY COMMENT
FORM

I have the following comments on the Draft RRP FS:

ARE THE COUNTIES IN HAWAII LOOKING TO DEVELOP
RRP'S AS THEY ADDRESS THEIR LANDFILL SITUATIONS?

THERE MAY BE OPPORTUNITIES OF SCALE TO DEVELOP
MULTIPLE RRP'S STATEWIDE.

Optional:

Name: Dirk Soma email: DIRKSOMA@YAHOO.COM

COMMENTS MUST BE RECEIVED BY JULY 30, 2013

ALTERNATIVELY, EMAIL COMMENTS TO: KAUAI-RRP@AECOM.COM

AECOM

Re: Kauai'i RRP

1001 Bishop St - Suite # 1600
Honolulu, Hawaii 96813

PO Box 30848
Anahola, Hawaii 96703-0848

29 January 2013

County of Kaua'i – Solid Waste Division – Department of Public Works
4444 Rice Street – Suite 255 or Suite 295
Lihu'e, Hawaii 96766

Contact: Donald Fujimoto, Environmental Services Officer

Re: Resource Recovery Park (RRP)
Feasibility Study (FS)
Proposed New Municipal Solid Waste Landfill (NSWLF)
Kaua'i County's preferred site at Ma'alo, Hanama'ulu

To Whom It May Concern:

Aloha! I deeply appreciate the opportunity to offer input via testimony/comment/concern regarding the proposed Resource Recovery Park (RRP). I commend Kaua'i County on their mandatory recycling of cardboard

January 20, 2010 – I submitted testimony in support of Resolution # 2009-71 – *The Integrated Solid Waste Management plan*; an excellent resolution for diversion of waste from the landfill. (Attached is a copy)

I had left numerous voicemail(s) with Allison Fraley with the Solid Waste Division; prior to the proposal of Resolution # 2009-71 – telling her that on the Big Island, Hawaii County; they had manifested the GREAT Kea'au Recycling and Reuse Center – started in 2002.

The prototype was in place; diverting a major stream of waste from the Hilo landfill. I encouraged her to convince her supervisors to get a copy of Hawaii County's plan and proceed to implement it. The report: The Big Island Reuse Feasibility Analysis – Final Report – A Program of The Department of Business Economic Development and Tourism (DBEDT). It did a Reuse Feasibility Analysis (2000-01); in conjunction with *Rural Community Assistance Corporation*; Hilo, Hawaii 96720 – January 2000 – an excerpt stated that: Kaua'i County could have had funding from both FEMA and the federal Economic Development Administration (EDA)

[♣ Some things may not be pertinent now, 21 yrs later ♣ The point *is* we could've had something viable *now*; 'if' Kaua'i County had acted on that **excellent funding opportunity & sensible placement** of a Resource Recovery Park (RRP) and Municipal Solid Waste Landfill ♣] **The excerpt:**

“Following Hurricane Iniki in 1992, the County of Kauai applied for and received a sudden and severe economic dislocation grant from the federal Economic Development Administration (EDA). The grant funded design and construction of a recycling and reuse facility adjacent to the Lihue transfer station. The project was intended to create employment opportunities through diversion of recyclable and reusable discards. The facility was to have been an adjunct to a large permanent debris recycling station funded by the Federal Emergency Management Agency. The county has since cancelled the debris recycling station and changed the focus of the EDA project to primarily reuse. These changes definitely affected the economic viability of the EDA project. After many delays, construction of the facility has been completed. As yet, there is no operator. The county has steadfastly refused to consider public operation, and has refused to commit any funds toward private operation. Two requests for proposals (RFP) for operation of the facility were issued. Only one proposal was received in response to the first RFP, and that was deemed unacceptable. Other organizations were interested in proposing, but were discouraged by lack of financial support from the county and state. Those organizations decided that it was not feasible to operate such a facility without public subsidies, at least in the early years. Subsequently, the county issued a second RFP. No proposals were received. As this report was being completed, Kauai County was assessing its options. The Kauai experience teaches that a reuse program must be carefully designed, but more importantly, that hastily considered changes to a program design may drastically affect project viability.”

<http://www.recyclehawaii.org/images/stories/documents/BIReuse.pdf>

Twenty-one years there was an excellent opportunity to have *the ultimate* in funding to build a Resource Recovery Park (RRP). Now, Kaua'i County wants to turn the revered Wailua Falls, the Wailua River, the Heiau Complex, and ultimately add to the sewage stink & contamination down Lydgate... Landfill liners last **thirty** (30) years **not two-hundred**. Aloha `Aina from 21 years ago was turned into: \$20 million or more to turn *Gem Department Store* into the grandiose 'showcase' of Lihu'e Civic Center – to get camping permits & \$6 million to refurbish the Historic County Building.

Other concerns I have regarding the RRP are the following:

- How will RRP materials be brought from residents, Hotel Industry, Costco, e-waste, Public and Private Schools, restaurants, gated communities, and et cetera?
- How many new roadways will need to be built to accommodate the substantial numbers of semi trucks?
- **As the Public Works Roads Division is in the process of implementing U.S. Army Corps of Engineers MicroPaver road maintenance software; which is based on the American Association of State Highway and Transportation Offices standards of measurement; will the U.S. Army Corps of Engineers be consulted in the excavation of adjacent land owned by Grove Farm Company, Inc. owner, Steve Case founder of America Online (AOL)?**
- It would be considerate for Kaua'i County to contact the numerous helicopter, aerial, airplane tour business' operators to receive *their* testimony of how this proposal: *NSWLF* will affect *their* cliental
- The *Kea`au Recycling and Reuse Center* – employs people with developmental disabilities will Kaua'i County consider this option to employ the incredible work ethic amongst this population?
- Thrift shops placing tons of discarded donations into dumpsters – I have witnessed this extensive contribution to the landfill. This practice is wasteful... Ever notice the price of a package of buttons at Wal-Mart or Lihu'e Housemart & ACE Hardware and Crafts? As well, there are plenty mechanic businesses on BEAUTIFUL Kaua'i – bags of rags – are sold at various stores for BIG money.
- Enforcement: that's where planning will come in to keep this kind of waste from happening.
- Also, at the various businesses and schools that have tons of recycled paper that isn't being 'recycled'
- Enforcement is a necessary component that would be win/win – the creation of jobs and to raise public awareness.
- There is tons of discarded food waste at schools – what happened to the pig farmers that would pick up the slop? Ten (10) billion people go to bed hungry every day. There isn't any viable composting at any public schools – that contributes immensely to the landfill problem.
- Green waste at schools on our island... ?? What happened to the *USDA 4-H* program on Kaua'i?

PLEASE address these above bullet point 'concerns' in the Feasibility Study

Clearly, the general public needs an immeasurable and immense education... people are lazy... Hawaiian seat covers and bumper stickers galore. Green bottles litter the roadways; choke packaging material from Mainland Developers, DOT (Dept of Transportation – State of Hawaii), Wal-Mart, Home Depot, Costco, *PMRF*, tons of E-waste, the solution is to implement mandatory 'over sight' programs in businesses and schools on our island.

It's 2013 ~ we're using BEAUTIFUL Kaua'i as a massive, toxic disgusting play ground for the rich & famous – residents & people that live here just keep piling their overflowing rubbish cans by the side of the road.

Recycling? There are some dedicated individuals that '*walk their walk*' but for the most part – we're in the dark

I've been blessed to live in Hawai'i Nei for near four (4) decades, when you could buy local eggs not mainland 'shell treated' sure you can buy local, organic eggs, but I can't afford them. Everything is imported in tons of plastic packaging; gotta sacrifice Wailua Falls & Wailua River for Mainland/Global consumerism.

Mahalo Plenty, for listening, hope we can get back to 'common sense' like the 1970's

Sincerely, with ALOHA,


Bonnie P. Bator and 'Ohana

P.O. Box 30848
Anahola, Hawai'i 96703-0848

822-5547

20 January 2010

Chairman Kaipo Asing & Vice-Chair Jay Furfaro and Council Members
Kaua'i County Council
4396 Rice Street ~ Room 206
Lihu'e, Hawai'i 96766

Re: *Resolution # 2009-71- The Integrated Solid Waste Management Plan -*

Dear Chairman Asing and Vice-Chair Furfaro, Council Members and Public Works Committee Members:

Aloha! I deeply appreciate the opportunity to offer testimony on the adoption of 'Resolution # 2009-71'
Mahalo plenty. The Integrated Solid Waste Management Plan is extremely important...it contains everything
that gets us (our island community of BEAUTIFUL Kaua'i) on tract to redirect objects/items/stuffs from the
landfill.

The 'Low Diversion Goal' in the plan of 60% is definitely possible to achieve - however, with the expertise of
the intelligent & exceptional people that are employed by Kaua'i County I'm sure we can go *beyond* that goal;
as has the communities of San Francisco, San Jose, L.A. and etc. have accomplished.

Implementation of a Resource Recover Park (*RRP*) or a Materials Recovery Facility (*MRF*) is an excellent
proposal. The island of Hawai'i (Big Island) has several operating facilities where (not exactly termed *MRF*) are
in place and creating a "*Win / Win*" situation whereas usable materials are diverted from the landfill and folks in
the community are able to purchase for a fraction of the cost items they need to survive in these difficult and
challenging times.

Again, I'm grateful for the chance to support the passage of 'Resolution # 2009-71' the adoption of the
Integrated Solid Waste Management Plan to divert objects from the landfill and make our island home more
sustainable and practical for future generations. Additionally, it is common sense!

Mahalo for your valuable time and consideration on the passage of this resolution!

Sincerely with ALOHA,

Bonnie P. Bator

KAUAI RESOURCE RECOVERY PARK (RRP)
DRAFT FEASIBILITY STUDY (FS)

COMMUNITY COMMENT
FORM

I have the following comments on the Draft RRP FS:

- ① What is the projected operational cost of RRP and what will be the funding mechanism?
- ② How much recyclable product is expected and have "willing" consumers been identified?
- ③ What is the cost of all the discard disposal recycling per ton now vs the new RRP?
- ④ If the LF contaminates our drinking water supply, how will the county address the potential shut down of W, W, or Hwy, all the medical facilities in LHA, the schools, Govt operations and big & retail operations?
- ⑤ Who & how will the RRP be funded?
- ⑥ Has Alternatives been identified and "Costed" compared to RRP concept?
- ⑦ Have quantities of "truly" recyclable material been modeled?

Optional:

Name: Arnold Leong email: Arnold@Pawoo.com

COMMENTS MUST BE RECEIVED BY FEBRUARY 12, 2013

ALTERNATIVELY, EMAIL COMMENTS TO:

KAUAI-RRP@AECOM.COM

⑦ Not all paper is recyclable - RFI analysis came up with less than 40% of paper could be recycled and rest was contaminated.

⑧ Has curbside commingled recycling been analyzed for % and cost and the effect of RCRA.?

⑨ Have you identified any disposal methods that contribute less pollutants than the RRP method?

⑩ What are the cost to benefit for all diverted waste streams?

⑪ Have you analyzed the quality of paper fibers in the current waste stream?

AECOM
RE: KAUAI RRP FS
1001 BISHOP STREET, SUITE 1600
HONOLULU, HAWAII
96813

⑫ If a burn plant is implemented where will the ash go?

⑬ What would the capital & on costs for plasma arc be compared to RRP with 4% potential burn plant?

⑭ LF gas to energy - too much diversion to produce enough gas to make it viable?

⑮ RCRA - are we consuming more non-renewable like oil to divert our solid waste? is it cost effective?

Gonna make lots of traffic on Maalo. Trucks/cars/Road coming from Hanalei

Resource Recovery Park (RRP) Draft Feasibility Study

- A RRP is a “one-stop service center” for waste reduction, reuse, and recycling, and includes a comprehensive and integrated set of programs and facilities co-located on a single site to promote recycling and help the County realize savings.
- Recommended RRP facilities described in this FS and analyzed in the EIS are *potential* facilities, which may be implemented in stages, in response to market and other conditions. Some facilities may or may not ever be implemented at the RRP (e.g., those that duplicate existing facilities).
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 12. Composting facility
 13. Landfill gas to energy facility
 14. Waste to energy facility (possible future option)

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www.kauai.gov/NewLandfillSite

KAUAI RESOURCE RECOVERY PARK (RRP)
DRAFT FEASIBILITY STUDY (FS)

COMMUNITY COMMENT
FORM

I have the following comments on the Draft RRP FS:

- on the EIS - locate project site - fee or State land ???
- Map showing irrigation system.
- Location Reservoir - use or not in use !!!
- water Run off - in relation to the land - or on site.
- Wind Direction - north, south, East west
- how land areas on the maps.
- potential Contamination areas (Show areas on map) percentage wise
- Topographic on maps
- proposed Routes to Site

Optional: 1st time meeting !!!
Name: ~~_____~~ email: _____

COMMENTS MUST BE RECEIVED BY FEBRUARY 12, 2013

ALTERNATIVELY, EMAIL COMMENTS TO: KAUAI-RRP@AECOM.COM