

# Evaluation of Conversion Technologies at The Tajiguas Landfill

Presented to the Multi-Jurisdictional  
Solid Waste Task Group

October 22, 2007



**Alternative  
Resources, Inc.**

# ARI Team

## **ARI: Prime Contractor, Lead Technology Review and Procurement**

- Independent consultant, no conflicts, no bias
- Incorporated 1984
- Provide management, engineering, environmental and financial services
- Practice nationally; in addition to Santa Barbara, active in Southern California - LA County, Orange County, San Diego
- Company focus – application of technology to recycle and beneficially use waste materials
- Recognized national expert in conversion technology (CT)
- 2007 facility visits in Europe, Israel, Japan

## **Clements: Support Technology, Site Review**

- Knowledge of CT, solid waste practices Southern California, including Santa Barbara County

# Scope of Work

## **Evaluation Services**

Task 1: Refine Project Objectives/Alternatives

Task 2: Finalize Evaluation Criteria

Task 3: Finalize Evaluation of Conversion Technologies

## **Procurement Services**

Task 4: Develop Request for Proposals (RFP)

# Task 1: Refine Project Objectives/ Alternatives

Objectives: Evaluate and Expand Upon Existing  
Project Goals

- Minimize environmental impacts
- Financial sustainability
- Green energy production
- Humane work environment
- Long-term solution
- Maximize recycling rates

Deliverables: Initial Report – Goals and Objectives

Schedule: Within 1 month (November 2007)

# Task 2: Finalize Evaluation Criteria

**Objective:** Review and Update Evaluation Criteria

- Fiscal viability (20%)
- Demonstrated ability (30%)
- Market issues (15%)
- Health, safety and environmental standards (20%)
- Operational characteristics, technical & mechanical support (10%)
- Intrinsic elements; e.g., electricity, water and air emissions (5%)

**Deliverables:** Final Evaluation Criteria Report  
PowerPoint Presentation

**Schedule:** Within 2 months (December 2007)

# Task 3: Finalize Evaluation of Conversion Technologies

**Objective:** Identify Conversion Technologies; Gather Information; Screen and Evaluate Technology Suppliers

- Current Short List
  - Arrow Bio (Anaerobic Digestion)
  - Ecocorp (Anaerobic Digestion)
  - Waste Recovery Systems, Inc. (Anaerobic Digestion)
  - Herhof Umwelttechnik GmbH (Mechanical Processing)
  - Genahol, Inc. (Acid Hydrolysis)
- Potential for other technology suppliers

**Deliverables:** Final Report on Available Conversion Technologies  
PowerPoint Presentation of Final Report  
Presentation on Contractual Roles & Responsibilities

**Schedule:** Within 3 months (January 2008)

# Task 4: Develop RFP

- Objective:** Prepare RFP to Solicit Proposals from Short Listed Technology Suppliers
- Introduction
  - Proposal Process and Schedule
  - Background Information on the Project and Site
  - Description of Services Required
  - Summary of Acceptable Business Terms and Contract Principles
  - Proposal Evaluation Process, Evaluation Criteria, Schedule
  - Instructions to Proposers (Technical, Price Proposals)
- Deliverables:** Draft and Final RFP  
Fact Sheet and PowerPoint Presentation
- Schedule:** Within 6 months after receiving direction to proceed  
(Anticipated: September 2008)

# Project Schedule

Task	Completion Date
<b><u>Evaluation Services</u></b>	
1. Refine Project Objectives/Alternatives	November 2007
2. Finalize Evaluation Criteria	December 2007
3. Finalize Evaluation of Conversion Technologies <ul style="list-style-type: none"> <li>– Complete Evaluation</li> <li>– City/County Review &amp; Consideration</li> </ul>	January 2008 March 2008
<b><u>Procurement Services</u></b> <sup>(1)</sup>	
4. Develop Request for Proposals <ul style="list-style-type: none"> <li>– Draft RFP</li> <li>– City/County Review</li> <li>– Final RFP</li> <li>– Authorization to Release RFP</li> </ul>	June 2008 July 2008 August 2008 September 2008

<sup>(1)</sup> Within 6 months after receiving direction to proceed