Identification of Draft Criteria for Consideration by
Mayor's Advisory Committee on Landfill Site Selection

July 14, 2008

Introduction

The criteria provided below are in **Draft** form and were prepared based on evaluation of the comments provided by the Mayor's Advisory Committee (Committee) on Tuesday, June 17, 2008. Once the criteria are finalized by the Committee, the methodology for detailed evaluation will be as outlined in the attached ***Draft Criteria Worksheets.***

The bullets below identify the issues as provided by the Committee. The numbered criteria under each bullet represent the consultant's first draft at identifying the appropriate criteria language.

A. Social Factors

- **Impacts on population centers close to the proposed sites**

  Criteria:
  1. Population density near the site

- **Human Elements: this could include proximity to schools, hospitals, residences etc.**

  Criteria:
  2. Distance to nearest residence, school, hospital or business
  3. Displacement of residences and/or businesses
  4. Archaeological and/or historic significance

- **Landownership: public, private, and whether the land is ceded or homestead lands**

  Criteria:
  5. Public or private land ownership
  6. Ceded or homestead land

- **Potential use for the landfill site after closure**

  Criteria:
  7. Potential final use of the site when the landfill is closed

  Note: Uses after closure would be contingent on decision makers and the community at some point in the future. Future surrounding land uses would also affect what the landfill could be used for, but would not necessarily be known in the present time.

- **Impact of proposed sites on present and future transportation planning – land and air**

  Criteria:
  8. Site distance from major highway
  9. Schools or hospitals along access road
  10. Residential units or developments along access road
  11. Potential impact to site from future highway construction

  Note: Existing air transportation concerns are handled in the EPA Federal siting criteria involving distance from an aircraft runway/airport.

- **Impact of proposed sites on present and future land use plans – both residential and visitor development, and County and state plans as proposed in the General Plan and other documents**

  Criteria:
  12. Consistency of site with the Kaua‘i General Plan land use designation
  13. Consistency of site with existing zoning designation
  14. Consistency of site with surrounding state land use designation

B. Environmental Factors

- **Ground water protection should be foremost – this deals with siting anything above the UIC line and it was noted that portions of some sites may be in the UIC area**

  Criteria:
  15. Location of site relative to the Underground Injection Control (UIC) Line.

- **Maximum use of byproducts – i.e. provide for refuse source separation, and the recovery of methane gas for the generation of energy**

  Note: This type of use could be accommodated at any of the sites and should be noted as a goal for any site development. The achievement of this goal is independent of the location of a landfill site.

- **Monitoring that meets best practices and all federal, state and county standards**

  Note: Not necessarily a criterion for site selection but should be cited as a goal since adherence to all laws and regulations will be a requirement of development that is independent of the location of the site.

- **Likelihood of adverse impacts/contamination to soil, ground water, and coastal waters**

  Criteria:
  16. Proximity to surface water
  17. Amount of annual precipitation

Note: Conformance to all laws and regulations will be a requirement of development that is independent of the location of the site. Costs of monitoring should be roughly the same for each site. Characteristics monitored include soils and soil geology and groundwater chemistry. Potential for migration of landfill associated surface and groundwater are controlled by engineering design and monitoring in accordance with law.

- **Site should meet air quality standards to assure minimum impact on residences, businesses, and the community**

  18. Wind direction relative to populated areas

  Note: A regulatory requirement that all landfill sites must comply with. This should also be stated as a goal.

C. Economic

- **Opportunities for co-location with other facilities called for in the Integrated Solid Waste Management Plan such as composting and recycling facilities**

  19. The site should have adequate space for landfill needs as well as adjacent lands that could provide an opportunity for collocation.

  Note: This should also be stated as a goal since the selection of a site for composting, recycling, or other refuse related activity may require siting requirements that may be different from those for the selection of a municipal sanitary landfill.

- **Cost of haul of solid waste from major generation areas**

  Criteria:
  20. Haul distance from major generation areas (based on higher costs with increasing distance from haul centers)

- **Landownership – this would include willingness of landowner to sell or lease if there is a beneficial use after closure, also would include landowners willing to negotiate for other types of trade**

  Note: This would be a difficult criteria to apply from the very beginning as most landowners have said no initially and there is no way to know what the potential bargaining positions might be. This will also be factored into the economic cost items. See Criteria 5.

- **Availability of alternative funding opportunities i.e. attractiveness of the site for public/private partnerships**

  Notes: A complex evaluation that would involve identifying: the parties involved and whether public or private; the nature of the benefit from the use of the site for the parties involved; and other details that go into the creation of a joint business

arrangement. While not necessarily a criteria, this approach should be stated as a goal to be applied to any potential landfill site in order to maximize the public benefit.

- **Development costs to government – infrastructure costs, and mitigation and monitoring costs**

  Criteria:
  21. Adequacy of drainage
  22. Cost of site acquisition
  23. Cost of development
  24. Cost of operations

  Note: Monitoring costs are anticipated to be similar for all sites.

- **Clean up and closure costs**

  Criteria:
  25. Closure and post-closure cost

D. Technical

- **Monitoring easily accommodated by the site**

  Note: Monitoring costs are anticipated to be similar and nominal for all sites.

- **Proximity of necessary infrastructure to the site**

  Criteria:
  26. Availability of utilities (water, waste water, power, telephone)
  27. Access to fire protection
  28. Distance of site from major highway
  29. Availability of existing access roadway from major highway

- **Proximity and availability of cover material for use by the landfill**

  Note: Criteria already included in Earth Tech Inc., landfill siting study. All site are estimated to provide sufficient cover material for use by a landfill.

- **Proximity to present and future transfer stations**

  30. Distance from existing refuse transfer stations.

  Note: Locations for future transfer stations are not known.

- **Zoning and land use classification issues**

  31. Proximity to parks and recreational facilities

  Note: See also Criteria 12, 13, and 14.

- **Accessibility to the site**

  Note: See Criteria 29 and Criteria 26 through 28.

- **Maximum landfill life and possible future expansion**

  Criteria:
  32. Landfill capacity or site life