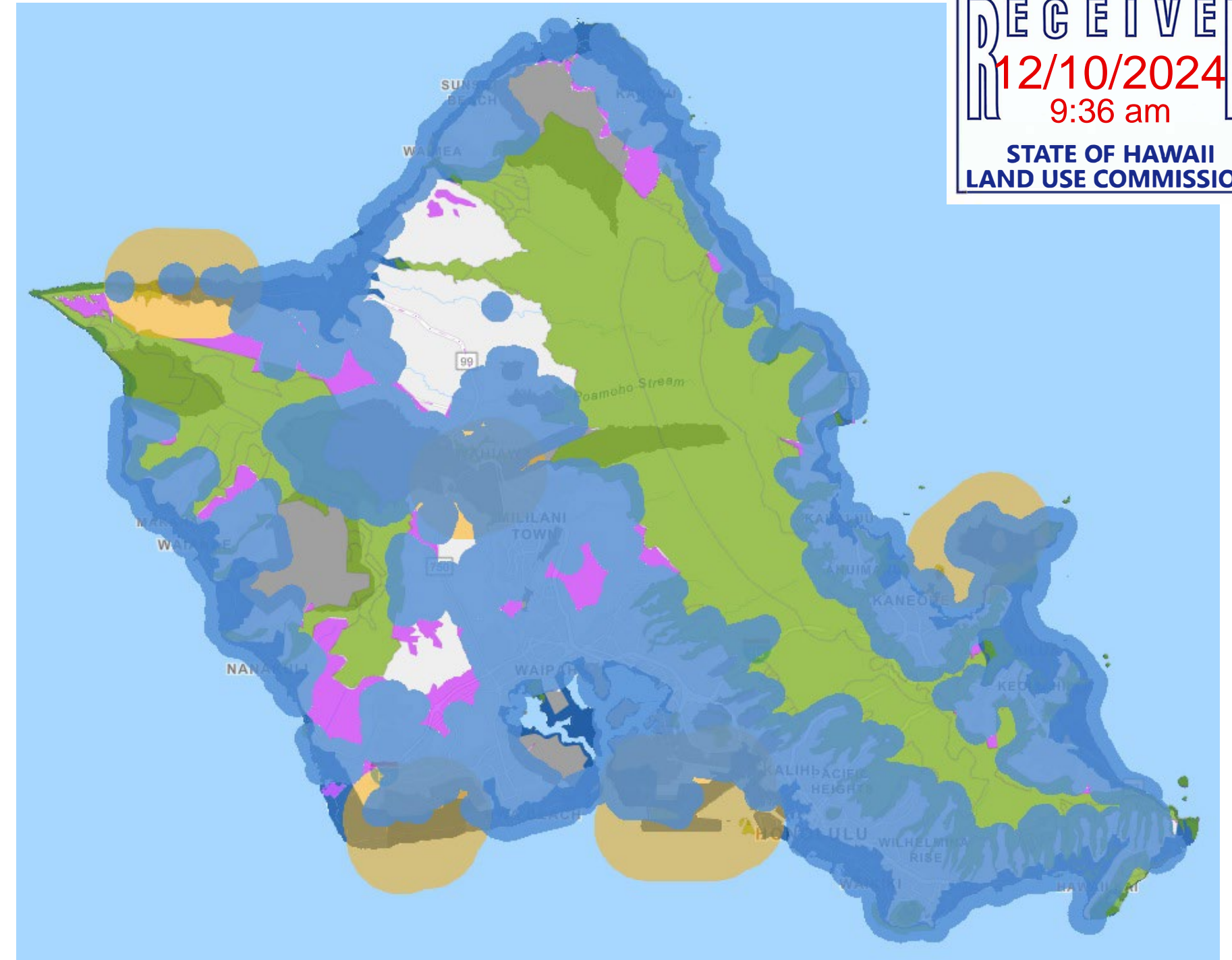


City and County of Honolulu

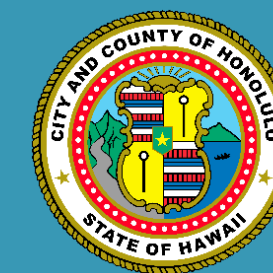
DEPARTMENT OF  
ENVIRONMENTAL SERVICES

**4<sup>th</sup> Quarter Update to  
the Planning  
Commission:  
City efforts to identify an  
alternative landfill site**



Roger Babcock Jr., Ph.D., P.E.  
Director, Po‘o

November 20, 2024



# Timeline, Milestones, and Schedule of Tasks



August 23, 2024: Deadline to site a new landfill extended to December 31, 2024 by Land Use Commission



September 18, 2024: ENV 3<sup>rd</sup> quarter update to Planning Commission

Tasks: Completion of *O 'ahu Landfill Siting Study Supplemental Technical Memorandum*. Continue evaluation of alternative sites: restrictions and obstacles, location, (size, distance, proximity), site characteristics, availability, costs, environmental, cultural, and socio-economic.



November 20, 2024: ENV 4<sup>th</sup> quarter update to Planning Commission

Tasks: Finalized (Oct 15) *O 'ahu Landfill Siting Study Supplemental Technical Memorandum*. Continue evaluations, make decision, announce selection



December 31, 2024: Deadline to identify an alternative landfill site



# Potential Sites Under Consideration/Considered

Site	Restrictions/Obstacles
Area 6, Site 1 – Wahiawā near Kunia Road*	No Pass Zone, well capture zone
Area 7, Site 1 – Kapolei/Waipahu near Kunia Road*	No Pass Zone, well capture zone
Area 3, Site 1 – Wahiawā*	No Pass Zone, prime ag land
Area 3, Site 2 – Wahiawā*	No Pass Zone, prime ag land
Area 3, Site 3 – Wahiawā*	No Pass Zone, prime ag land
Area 2, Site 1 – Hale‘iwa near Kawaihoa Road*	No Pass Zone, prime ag, remote
Area adjacent to the Waimānalo Gulch Sanitary Landfill**	West side location, Eliminated from consideration
Area east of the Community of Mā‘ili (Lualualei)**	Federal land, West side location, Eliminated from consideration
Area on Waipi‘o Peninsula - City Soccer Complex**	Federal land, rejected, Eliminated from consideration
Area on West Loch Annex (Iroquois Point)**	Federal land, rejected, Eliminated from consideration

Note: All sites are restricted; modification of restrictions could allow for site suitability.

\* Derived from the O‘ahu Landfill Study & Landfill Advisory Committee Recommendations final report. Found at <https://www8.honolulu.gov/env/ref/new-landfill-siting/>.

\*\* Derived from the O‘ahu Landfill Siting Study Supplemental Technical Memorandum.

# Potential Sites Under Consideration

Sites	Restrictions/Obstacles
Area near Waimānalo Country Farms**	Act 73: conservation & ¼ mi buffer
Area near University of Hawai‘i West O‘ahu campus and Farrington Highway**	Act 73: conservation & ¼ mi buffer
Pali Golf Course**	Act 73: conservation & ¼ mi buffer
HC&D South Quarry and Adjacent Area**	Act 73: conservation & ¼ mi buffer
HC&D North Quarry**	Act 73: conservation & no buffer
Waiāhole Forest Preserve and Farmland (Waiāhole Homestead Road)**	Act 73: conservation & no buffer
Area occupied by the Hawai‘i Youth Correctional Facility and Olomana School**	Act 73: conservation & no buffer
Area near Castle Junction and Pali Highway**	Act 73: conservation & no buffer
Royal Hawaiian Golf Club**	Act 73: conservation & no buffer
Hawai‘i Prince Golf Club**	Act 73: conservation & no buffer, flight path

Note: All sites are restricted; modification of restrictions could allow for site suitability.

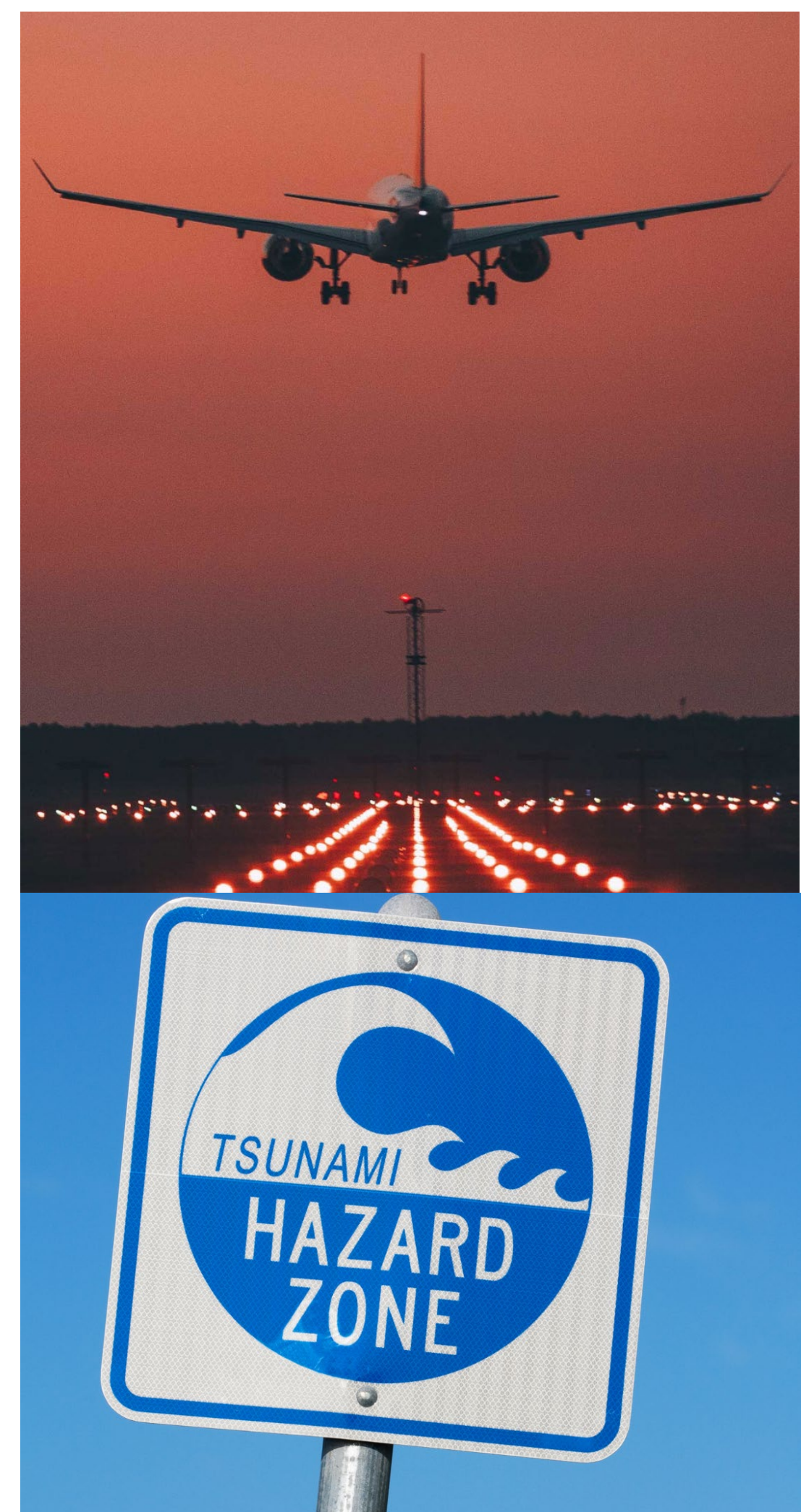
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\*\* Derived from the O‘ahu Landfill Siting Study Supplemental Technical Memorandum.



# List of Obstacles Affecting Ability to Choose a Site

- Federal regulations
  - Airport runway buffer zone
  - Wetlands
  - Floodplains
  - Fault areas
  - Seismic impact zone
  - Unstable areas
- Act 73 and other State regulations
  - One-half-mile buffer zone for residences, schools, hospitals
  - Conservation district
  - Tsunami zones
- Federal lands
- Developed & Undevelopable
- No Pass Zone



# Investigation of Alternative Technologies for Landfill



Source: [www.energy.gov](http://www.energy.gov); Modular Gasification Test Apparatus at the University of Alaska-Fairbanks

- Plasma arc
- Gasification
- Thermal depolymerization
- Multiphase microwave
- Microwave plasma
- Pyrolysis
- Shipping of waste off-island (RFI 1876011, 10/07 – 12/02)



# Improvements in Waste Diversion/Processing

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- Food waste and manufactured compostable materials included in curbside recycling [green carts] (July 1, 2025)
- H-POWER ash recycling (Honolulu Advanced Resource Recovery from Ash - HARRA)
- Collection of rechargeable batteries (RFB 1876411, 10/07 – 10/25)
- Collection of electronic waste (RFB 1852911, 10/07 – 10/29)
- Collection of mixed waste paper from City agencies (RFB 1840004, 10/22 – 11/07)










**MAHALO!**

**Roger Babcock Jr., Ph.D., P.E.**  
**Director**  
**Po‘o**

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