

**MOLOKAI INTEGRATED SOLID WASTE FACILITY
SP93-383 FY2023 ANNUAL REPORT**



Section One: Project Summary

Regulatory compliance handled during FY 2023 included the following:

- Second amendment to contract with Maui Disposal to operate Recycle Molokai.
- County management of greenwaste operation.
- New contract with Refrigerant Recycling to provide ongoing collection services at the Moloka'i Metals Facility for the receipt, processing, and shipping to Oahu of scrap metal, appliances, vehicles, and related materials.

Recycle Molokai

In FY 2023 the second amendment was made to the contract with Maui Disposal for \$298,500 to operate the Molokai Recycling Center and Certified Redemption Center. Plastic, aluminum, and glass containers are redeemed through the state's HI-5 program and cardboard, newspaper, glass, plastic, and bi-metal cans are collected, baled, and shipped to Oahu. Used motor oil, anti-freeze, paint and electronics are also shipped.

Greenwaste Facility

In FY 2023 County staff continued to manage operations for receiving and processing residential and commercial green waste into mulch. One equipment operator and two laborers operate the County-owned Morbark chipper/grinder and greenwaste receiving site on those days when they don't collect refuse. Refuse collection was transferred from the Dept. of Public Works/Highways to CoM-SWD in FY 2021.

Molokai Metals Facility

In FY 2023 a two-year contract was made with Refrigerant Recycling of Honolulu to equip and operate the Molokai Metals Recycling Facility and Remote Area Collection for collection events at Hana Landfill. The price for each year is \$468,788.

Land Court Documents

In FY 2023 Munekiyo Hiraga and their sub-consultant worked under the \$59,701 contract to complete required Land Court documents for Molokai Landfill subdivision.

Phase 5 Construction

Goodfellow Brothers, Inc. completed construction of the Phase 5 cell for a total price of \$4,868,289.91. Placement of the operations layer was done from April to June 2023.

Section Two: Project Compliance

Condition 1: That appropriate monitoring of the quality of water to be discharged into neighboring gulches from drainage basins shall be undertaken to assure that toxic wastes are not part of the discharge.

Response

Basin water is routinely checked for debris and sediment should any discharges occur.

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Condition 2: That in preparation of the sanitary landfill, the landfill floor shall be further compacted and be made relatively impervious to water in order to contain leachate. Proper disposal methods of leachate shall be installed within the landfill.

Response:

Phase 3 has been constructed with a composite liner of a geosynthetic and compacted soil. A lysimeter, pump, and riser were installed to collect and measure any leachate. A lysimeter was installed in Phase 1 with Phase 2 graded to it. Leachate from the Phase 1 wet well and from the Phase 3 sump has been sampled and tested semi-annually and reported to the Department of Health. Phase 4 was constructed with a composite liner of geosynthetics and compacted low-permeable soil as Phase 5 was. Phase 4 leachate is collected in the Phase 3 sump. Phase 5 has its own leachate sump. Currently, leachate is pumped by the County Highway's truck and disposed of at the Kaunakakai wastewater treatment plant.

Condition 3: That a traffic assessment shall be developed to determine the impact on Maunaloa Highway once the sanitary landfill is operating. This assessment shall be completed no later than one year after said landfill is in operation. Findings of the assessment shall be submitted to the State Department of Transportation, Highways Division, and the Maui County Planning Department for review.

Response

The completed report was transmitted as required on May 10, 1995. A left-turn storage lane was installed on Maunaloa Highway. Construction began in July 2008 and was completed in 2009 with Department of Transportation-Highways approving the work.

Condition 4: That the applicant shall stop work on the sanitary landfill and immediately contact the Department of Land and Natural Resources, Historic Sites Division, in the event that any previously unidentified historic, archeological, or cultural sites are encountered.

Response

This has not occurred to date during the construction of Phases 1, 2, 3, 4 or 5. If any previously unidentified historic, archeological, or cultural sites are encountered during any construction work will cease and Historic Sites Division notified.

Condition 5: That appropriate internal vehicle circulation patterns shall be designed so as to not cause confusion and congestion within the sanitary landfill.

Response

There is a paved road into the landfill which turns into a dirt road up to the active area. Internal roadways are clearly marked for the public to easily access the active area.

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Condition 6: That full compliance with the requirements of the State's Department of Health (DOH) for sanitary landfill operation shall be rendered.

Response

The landfill is permitted by DOH and follows *RCRA 40 CFR Part 258 Subpart C-operating criteria and Chapter 58.1 of Title 11, Hawaii Administrative Rules, 11-58.1.1-15—Municipal solid waste landfills—operating criteria*. The working supervisor manages landfill operations in accordance with the DOH issued solid waste permit and four other staff: cashier, two landfill attendants and an equipment operator. The landfill operations supervisor regularly visits the landfill and oversees operations for compliance at Molokai, Lanai, and Hana. The landfill sends weekly photos to the DOH as part of the alternative daily cover program in which a tarp is used.

Condition 7: That appropriate rules shall be established to prohibit scavenging within the sanitary landfill operation.

Response

No scavenging is allowed and rules are enforced by landfill staff. After hours the main gate on Maunaloa Highway is locked. The entire facility is fenced; access to it is controlled by a locked gate. The scrap metal receiving area is fenced inside the landfill parcel with a locked gate controlling access.

Condition 8: That appropriate mitigative measures to control excessive dust generation shall be implemented.

Response

Staff fill the landfill water truck at the Kaunakakai Highways baseyard on a regular basis to provide dust control for those internal roadways that are not paved.

Condition 9: That provision shall be enacted to ensure emergency access to the sanitary landfill in case of fire or other disaster.

Response

The County District Supervisor has keys to all facility gates.

Condition 10: That final architectural and landscape planting plans be submitted to the Planning Department for review and approval. Upon approval by the Planning Department, a copy of the plans shall be submitted to the Land Use Commission.

Response

This was done during facility design prior to construction and opening in 1993.

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Condition 11: That full compliance with other applicable government requirements shall be rendered.

Response

Readings are taken at the perimeter gas probes on a quarterly basis and reports made to the Department of Health. Leachate is sampled and tested semi-annually. The Spill Plan is updated as required and NPDES permit conditions are followed.

Condition 12: That alternative No. 3 of the geomembrane liner as found in the January 4, 1993 memo from Parametrix, Inc. to Dave Wissmar shall be used for Phase (Cell) 1.

Response

This was done during construction of Phase 1 in 1993.

Condition 13: The Applicant shall provide County of Maui Planning Department and Land Use Commission copies of the final approved metes and bounds map and description delineating the permit area of approximately 37.9 acres.

Response

The subdivision was final in June 2009. The final plat for the Land Court application was prepared by Fukumoto Engineering, Inc. for Munekiyo Hiraga, Inc. who has been contracted to meet Land Court requirements with a sub-consultant handling the legal documents. Maps and documents were submitted to the Land Court at the end of FY 2022. The surveyor, Fukumoto Engineering, has responded to their questions during their review in FY 2023.

Condition 14: The Applicant shall commence operations of the Molokai Integrated Solid Waste Facility no later than six months from the date of filing of this Decision and Order by the Land Use Commission.

Response

The facility opened on October 1, 1993 within six months of May 14, 1993.

Condition 15: The Applicant shall timely provide, without any prior notice, annual reports to the County of Maui Planning Department and the Land Use Commission in connection with the status of the subject project and the Applicant's progress in complying with the conditions imposed herein. The annual report shall be submitted in a form prescribed by the Executive Officer of the Commission.

Response

The submission of this report meets this requirement.

