

**CENTRAL MAUI LANDFILL
SP86-359 FY2023 ANNUAL REPORT**



Part 1: Project Summary

Premixing Biosolids, Greenwaste, Fats, Oil, and Grease

Co-composting ended on March 1, 2020 with subsequently received greenwaste ground and mixed with biosolids and grease trap waste and hauled to the landfill for disposal. For FY 2023 16,136 tons of commercial greenwaste, pallets, and woodchips were received with 24,071 tons of County biosolids and grit, 233 tons of private biosolids, and 6,202 tons of grease trap waste totaling 30,506 tons. 63,445 tons of mix was placed at the working face with the balance of 16,803 tons comprised of residential greenwaste.

Phase III-B Construction

Two bids were received on May 18, 2023, one from Goodfellow Brothers, LLC and one from Alpha, Inc. Alpha's bid of \$10,374,572.50 was the lower of the two received, but the contract signed by Alpha on June 19, 2023 for \$7,848,022.50 was limited to existing funds. A budget amendment for an additional \$3.5 million was made on June 5, 2023.

Phase II Slope Improvements

On November 17, 2022 two bids were received, one from Maui Kupono Builders, LLC and one from Alpha Inc. Alpha was lower at \$1,364,800 and a contract was executed on December 28, 2022 with a Notice to Proceed issued on January 23, 2023. The project expanded the Phase III-A fill area by adding geosynthetics and a drainage layer to the adjacent Phase II slope. The work was completed on April 23, 2023 for a final cost of \$1,390,837.88 due to a change order for increased quantities of materials.

Part 2: Project Compliance

Condition 1: That the adjacent Kalialinui Gulch shall not be disturbed by the activities of the sanitary landfill with the exception of drainage from storm generated runoff.

Report: The Gulch was cleared of any remaining litter due to landfill operations when Phases I and II were closed in 2006. No further landfill activity directly abuts the Gulch as the organics facility for premixing sludge and greenwaste is located between Phase III-A and the Gulch. The fenced and paved perimeter road buffers the Gulch from the grass covered Phases I and II.

Condition 2: That appropriate monitoring of the quality of water to be discharged into Kalialinui Gulch from drainage basins shall be undertaken to assure that toxic wastes are not part of the discharge.

Report: Any stormwater discharged into Kalialinui Gulch is tested for parameters required by NPDES permits. Detention ponds have had adequate storage capacity to hold run-off from both the organics facility and closed landfill during storm events. Capacity for Phase III-A operations is achieved by routing stormwater to the CML basin.

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Condition 3: That in the 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 leachates shall be installed within the landfill.

Report: A riser pipe and perforated pipes running laterally from its base were placed at a low point in the landfill floor after excavation of waste to locate the original leachate collection pipe. Leachate has not been observed, due to the dryness and depth of waste, low rainfall, and warm temperatures. The landfill was constructed with a compacted floor and piped leachate collection system.

Condition 4: That a traffic assessment shall be developed to determine the impact on Pulehu Road 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 County of Maui's Department of Planning for review.

Report: This was completed by R. M. Towill as part of their original design work in 1986. HDR Engineering, Inc. was contracted in May 2019 to count traffic volumes at the landfill entrance and evaluate the need for a left-turn lane on Pulehu Rd.

Condition 5: 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, archaeological or cultural sites are encountered.

Report: No previously unidentified historic, archaeological, or cultural sites were found.

Condition 6: That appropriate internal vehicle circulation patterns shall be designed so as to not cause confusion and congestion within the sanitary landfill.

Report: Phases I and II are closed to all traffic except for monitoring and maintenance. Phase III roadways were paved as part of the construction of the new III-A landfill.

Condition 7: That full compliance with the requirements of the State's Department of Health for sanitary landfill operation shall be rendered.

Report: Phases I and II were closed according to Department of Health (DOH) rules and regulations. Phase III operates according to its DOH permit.

Condition 8: That appropriate rules shall be established to prohibit scavenging within the sanitary landfill.

Report: Phases I and II are closed to the public and capped according to regulations.

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Condition 9: That appropriate mitigative measures to control excessive dust generation shall be implemented.

Report: Phases I and II are covered with drought-resistant grass and has paved roads. There are no areas with exposed soil which would generate dust. Periodic rainfall replenishes vegetated cover. Operations in Phase III control dust with water trucks.

Condition 10: That provisions shall be enacted to ensure emergency access to the sanitary landfill in case of fire or any other disaster.

Report: The Fire Dept. on Dairy Road has keys to the landfill in case of a problem.

Condition 11: That warning signs shall be clearly posted near all entry points of the landfill to indicate any blasting activity on the adjacent rock quarry.

Report: Blasting contractors post signs and restrict traffic during blasting activities; the active quarrying is on the other side of Phase I and II from the public access side.

Condition 12: That full compliance with any other applicable government requirements shall be met.

Report: New Source Performance Standards (NSPS) are followed for landfill gas measurement, for wells within the landfill, surface emissions from the cover, and perimeter gas probes. Sampling and metering of perimeter probes are done quarterly and reports are made to the Department of Health, Solid Waste Branch. Landfill gas is piped to the flare at Phase IV, which is monitored according to its Clean Air permits.

Condition 13: Petitioner will submit to the Commission a letter from Ameron HC&D requesting an amendment to the Special Permit issued under docket No. SP77-271 to delete a portion of land consisting of the Property, currently approved for quarrying purposes, for the establishment of the Project, pursuant to Section 205-6, Hawaii Revised Statutes.

Report: This was completed at that time.

Condition 14: Permitted activities shall include the processing of special waste into marketable materials, such as biodiesel and compost, as an additional use under the special permit.

Report: Marketable materials are no longer produced on the Phase III site.

Condition 15: That the Applicant shall satisfy the County of Maui Department of Water Supply standards for fire protection.

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Report: There are two fire hoses connected to the on-site water tank, which meets the County standards for fire protection at the organics facility.

Condition 16: That security safety measures including, but not limited to, the methanol tanks, onsite catalyst, and lab container shall be implemented due to the type of products used and produced onsite.

Report: As biodiesel production has been discontinued, these no longer apply.

Condition 17: That a combustible liquid tank permit shall be acquired and maintained, as necessary.

Report: This is no longer needed.

Condition 18: That the Applicant shall timely provide without any prior notice, annual reports to the Commission and the County of Maui Department of Planning in connection with the status of the uses approved under the special use permit 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.

Report: Filing of this FY 2023 annual report complies with this condition.