

WASTEWATER MANAGEMENT PERMIT

This permit is issued under the provisions of Chapter 342D, Hawaii Revised Statutes, and Chapter 11-62, Hawaii Administrative Rules, Department of Health, State of Hawaii.

**City and County of Honolulu
Department of Environmental Services
(Operator)**

and

**Laie Treatment Works, Inc
(Owner)**

(herein “Permittee”)

is hereby authorized to operate the Laie Water Reclamation Facility wastewater treatment works located at 55-280 Kamehameha Highway, Laie, Hawaii, TMK (1) 5-5-006: 003, in accordance with the sludge limitations, monitoring requirements, and other conditions set forth herein, and in the attached Department of Health “Individual and General Permit Standard Conditions”, dated July 1, 2014.

Acceptance of this permit constitutes an acknowledgment and agreement that the holder will comply with all rules, regulations, orders of the Department, and the conditions precedent to the granting of this permit.

This permit shall become effective June 1, 2021.

This permit shall expire at midnight, May 31, 2026.

ELIZABETH A. CHAR, M.D.
Director of Health
State of Hawaii

Part A. General Conditions

1. The Permittee shall comply with all Federal and State regulations, and any National Pollutant Discharge Elimination System and Solid Waste permits issued to the facility.
2. The Permittee shall comply with Hawaii Administrative Rules (HAR), Chapter 11-62, Appendix A, Individual and General Permit Standard Conditions (enclosed).
3. The Permittee shall comply with all permit application materials submitted on March 24, 2020 and August 31, 2020. The Permittee shall notify the Department of any change in operation or information specified in the application materials.
4. The Permittee shall comply with those conditions contained in 40 CFR 501.15(b).
5. The Permittee shall retain a copy of this permit and permit application at the facility.
6. The Permittee shall ensure that all wastewater pumpers and haulers that haul from and discharge wastewater and wastewater sludge into the facility shall be registered with the State. Copies of the wastewater manifests shall be made available to the Director upon request.
7. The Permittee, in accordance with section 11-62-26(b)(7), HAR, shall monitor and record the following information (see attached Wastewater Sludge Pumping and Disposal Report):
 - a. Volume of wastewater sludge wasted;
 - b. Solids concentration of wastewater sludge wasted;
 - c. Name of any wastewater sludge pumping and hauling firm (if applicable); and
 - d. Dates of pumping and hauling (if applicable).
8. The Permittee, in accordance with section 11-62-28(a), shall record and keep on site for a minimum of five (5) years, complete records of operation and maintenance, repairs, replacements, and improvements performed or installed at the treatment works.
9. The Permittee, in accordance with section 11-62-28(b), shall keep on site all records and reports of spills in accordance with 11-62, Appendix B. These records shall be available for the DOH's inspection for a minimum of five (5) years. Copies of any records or reports shall be made available free of charge to DOH upon request.
10. The Permittee shall submit the standard operating procedures (SOP) of this facility with the permit application. A final version of this manual shall be approved by the director within 60 days of the permit issuance. The SOP shall include all record

keeping requirements, sampling locations, sampling protocols, and procedures for calibrating thermometers.

11. The Permittee shall submit copies of all test analyses results, including all test results that do not meet the requirements with each request for compost approval. The Permittee shall submit signed copies of all reports required by this permit to the Director. Electronic copies of these reports may be submitted via email or similar method. If problems occur with the submittal of electronic copies, then the Director may require hard copies to be submitted to the following address or as otherwise specified:

wwb@doh.hawaii.gov
Director of Health
Wastewater Branch
2827 Waimano Home Rd, #207
Pearl City, Hawaii 96782

12. The Permittee shall include the following certification statement and signature on each submittal in accordance with section 11-62-52:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment for knowing violations."

13. The Permittee shall include the Wastewater Management (WWM) permit number on each submittal. Failure to provide the assigned WWM permit number for this facility on future correspondence or submittals may be a basis for delay of the processing of the document(s).
14. The Permittee shall notify the Director, in writing, of any changes to information on file with the DOH as soon as changes arise. A revised SOP reflecting these changes shall be submitted for the Director's review and approval prior to implementation. Depending on the extent of the proposed changes, a modification to this permit may be required.
15. The Permittee is responsible for obtaining other Federal, State, or local authorizations as required by law.

Part B. Special Conditions

1. All wastewater sludge treated by the Permittee shall meet the exceptional quality criteria specified in section 11-62-42(a). If the wastewater sludge does not meet these criteria, the Permittee must inform the Director immediately that the wastewater sludge does not meet the exceptional quality criteria and must submit in writing why the facility did not meet the criteria and any corrective actions taken.
2. All wastewater sludge and wastewater sludge compost generated by the Permittee shall be reused or disposed of in accordance with the applicable portions of:
 - a. 40 CFR 503 and Chapter 11-62, HAR: For wastewater sludge and wastewater sludge compost that are land applied, placed in a surface disposal site, or incinerated.
 - b. 40 CFR 258 and Chapter 11-58.1, HAR: For all wastewater sludge and wastewater sludge compost that is disposed in municipal solid waste landfills;
 - c. 40 CFR 257 and Chapter 11-62, HAR: For all wastewater sludge use and disposal practices not covered in 40 CFR 258 or 503.
3. The Permittee is responsible for assuring that all wastewater sludge and wastewater sludge compost produced at the facility are used or disposed of in accordance with 40 CFR 257, 258, and 503, and Chapters 11-58.1 and 11-62, HAR, whether the Permittee reuses or disposes of the wastewater sludge and/or wastewater sludge compost directly or transfers the wastewater sludge and/or wastewater sludge compost to another entity for further treatment, reuse, or disposal. The Permittee is responsible for informing the subsequent preparers, appliers, and disposers of the requirements which these entities must meet under 40 CFR 257, 258, and 503, and Chapters 11-58.1 and 11-62, HAR.
4. No wastewater sludge shall be allowed to enter wetlands or other waters of the United States.
5. Wastewater sludge treatment, storage, reuse, or disposal shall not contaminate groundwater.
6. Wastewater sludge and wastewater sludge compost treatment, storage, reuse, or disposal shall be performed in a manner as to minimize nuisances such as objectionable odors or flies.

7. If the wastewater sludge and/or wastewater sludge compost is transported for off-site treatment, reuse, or disposal, the Permittee shall use only haulers registered in the State. In addition, the Permittee shall assure that haulers take all necessary measures to keep the wastewater sludge and/or wastewater sludge compost contained.
8. Wastewater sludge and/or wastewater sludge compost cannot be stored for over two (2) years from the time it was generated. Sludge or compost material stored for longer than this allowable time cannot be used for land application and shall be disposed of in a municipal solid waste landfill.
9. Wastewater sludge containing PCBs equal to or greater than 50 mg/kg of total solids (100% dry weight basis) shall not be composted and shall be disposed of in accordance with 40 CFR 761.
10. Any wastewater sludge and/or wastewater sludge compost treatment, storage, or disposal site shall have adequate facilities which divert surface runoff from adjacent areas, protect site boundaries from erosion, and prevent any conditions that would cause drainage to escape from the site. Adequate protection is defined as protection from at least a 100-year storm and from the highest tidal stage that may occur.
11. Each batch of wastewater sludge compost shall be monitored and approved by the Director before it can be used or distributed. In order to meet the pathogen time requirements in Special Condition 11.c, temperature logs, compost turning logs, and pollutant analyses results can be submitted prior to pathogen analyses.
 - a. All wastewater sludge samples shall be collected and analyzed in accordance with section 11-62-48, HAR.
 - b. Wastewater sludge that is land applied shall be tested for the following pollutants using Test Methods for Evaluating Solid Waste Physical/Chemical Methods”, EPA Publication SW-846.
 - i. If the wastewater sludge compost batches are not distributed continuously and regularly throughout the year and if less than four (4) batches of compost are generated annually, the frequency of testing shall be performed at least once per quarter or a minimum of four (4) times per year.
 - ii. Sampling procedures shall follow the protocol described in the SOP to be submitted in accordance with General Condition #3. The Permittee shall ensure that the sample collected is representative of the compost sample batch. Incremental samples shall be taken along the length of

the compost batch and shall be taken from varying depths. These incremental samples shall form a composite sample used for testing purposes. A minimum of two (2) composite samples shall be analyzed in compliance with Special Condition 11.c. The number of incremental samples shall be dependent of the volume of the compost to be distributed. The number of composite sampling may be incrementally increased to a minimum of seven (7) composites if the composting operations and compost analyses become inconsistent.

- iii. Pollutant concentrations for each sample shall not exceed the ceiling limits specified in Chapter 11-62, Table IV, HAR and are listed below. Wastewater sludge compost exceeding the ceiling limits cannot be distributed nor can it be retested for distribution.

Pollutant	Ceiling Limit (mg/kg, dry weight basis)
Arsenic	20
Cadmium	15
Chromium	200
Copper	1,500
Lead	300
Mercury	10
Molybdenum	25
Nickel	420
Selenium	25
Zinc	2,000

- c. Wastewater sludge compost that is land applied shall be tested quarterly for organic-N, ammonium-N, and nitrate.
- d. Wastewater sludge compost that is land applied shall demonstrate that the wastewater sludge compost meets Class A pathogen requirements of sections 11-62-46(a)(6) and 11-62-46(d)(1)(A), HAR, and 40 CFR 503 appendix B, section B.1.

- i. Using the windrow composting method, the temperature of the wastewater sludge is maintained at 55 degrees Celsius (131 degrees Fahrenheit) or higher for 15 days or longer. During the period when the compost is maintained at 55 degrees Celsius (131 degrees Fahrenheit) or higher, there shall be a minimum of five (5) turnings of the windrow and the windrow must be turned at least once every three (3) days. Daily logs indicating the date, temperature, and turning of each windrow compost pile shall be submitted to the Director.
 - ii. The pathogen density shall be met at the time the wastewater sludge compost is used, disposed, or prepared for sale or give away in a bag or other container. The wastewater sludge compost must therefore be monitored not more than sixty days before land application or being bagged for distribution unless otherwise specified.
 - iii. For each sample taken, the fecal coliform density shall be less than 1,000 MPN per gram of total solids (dry weight basis) or for each sample, the Salmonella sp. Bacteria shall be less than three (3) MPN per four (4) grams of total solids (dry weight basis). If a sample exceeds the pathogen density for an organism, the wastewater sludge compost cannot be retested for distribution using the same organism. The compost, however, can be tested to meet the pathogen density using the other organism.
 - e. Wastewater sludge compost that is land applied shall meet the vector attraction reduction requirements of section 11-62-47, HAR. The wastewater sludge shall be treated in an aerobic process for 14 days or longer. During that time, the temperature of the wastewater sludge shall be higher than 40 degrees Celsius (104 degrees Fahrenheit) and the average temperature of the sewage sludge shall be higher than 45 degrees Celsius (113 degrees Fahrenheit). Daily logs indicating the time, temperature, and turnings of each compost pile shall be submitted to the Director.
 - f. The wastewater sludge shall be tested yearly using Toxic Characteristic Leaching Procedure (TCLP). In addition, the Director may request the wastewater sludge be tested for priority pollutants on a yearly basis.
12. The Permittee shall comply with the following notification requirements:
- a. The Permittee shall notify the applier(s) in writing of the nitrogen, phosphorus, and potassium content of the wastewater sludge compost, and of all the appliers' requirements in Chapter 11-62, HAR, including the application rates in section 11-62-42(e).

- b. If bulk wastewater sludge compost is shipped to another State/Tribal Lands, the Permittee must send notice sixty days prior to the initial shipment of wastewater sludge to the permitting authorities in the receiving State/Tribal Land.
13. The Permittee, in addition to the reporting required in General Condition 8, shall submit an annual report to the director by February 19 of each year for the period covering the previous calendar year. The report shall include:
 - i. A wastewater sludge balance in dry metric tons, including the amount of wastewater sludge generated that year, the amount accumulated (stored) from previous years, and the amount used, disposed, stored and distributed that year. The report shall also contain the volume of wastewater sludge reprocessed and identify the windrow the reprocessed sludge was placed.
 - ii. A completed Certification Form -Land Application (Chapter 11-62, Form A).
 - iii. Names, mailing addresses, and street addresses of entities who received your wastewater sludge and wastewater sludge compost for further treatment, storage, disposal in a municipal solid waste landfill, or for other use or disposal methods not covered above, and the volumes in dry metric tons delivered to each.
 - iv. Names, mailing addresses, and street addresses of entities who you received wastewater sludge for further treatment and the volumes in dry metric tons received from each.
14. Records regarding the wastewater sludge processing including end-product transactions including invoices, billings, and/or manifests, shall be maintained for a minimum of five (5) years. Records of all analytical testing data and temperature monitoring data shall also be maintained for a minimum of five (5) years. Copies shall be made available to the Director upon request.
15. The Permittee shall notify the director, in writing, of any operational changes. A revised SOP reflecting these changes shall be submitted for the Director's review and approval prior to implementation. Depending on the extent of the proposed changes, a modification to this permit may be required.
16. The Director may require a permit modification if there are any rule changes to HAR 11-62 or 40 CFR 503 that

17. For all wastewater sludge and wastewater sludge compost that does not meet the requirements of Special Condition 11 and cannot be approved by the Director, the Permittee shall notify the Director of the compost batch number, the volume of the compost batch, the reason the compost did not meet the requirements of Special Condition 11, and the final disposition of the compost in accordance with Special Condition 2. If the compost is to be placed into another compost pile for re-composting, this must be logged, and the new compost pile number reported. This information shall be reported in accordance with General Condition 8 and Special Condition 13.i.

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