

PERMITTEE:
OWNER/OPERATOR:
County of Maui
Pulehu Road
Puunene, Hawaii

PERMIT NUMBER: LF-0074-13
DATE OF ISSUE: [Date of Issue1](#)
EXPIRATION DATE: February 25, 2023
COUNTY: Maui
LATITUDE/LONGITUDE: 20° 51'N/156° 25'W
PROJECT: Central Maui MSW Landfill

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SOLID WASTE MANAGEMENT PERMIT

This solid waste management permit renewal and modification is issued under the provisions of Hawaii Revised Statutes (HRS), Chapter 342H, *Solid Waste Pollution*, and Hawaii Administrative Rules (HAR), Title 11, Chapter 58.1, *Solid Waste Management Control*. The above-named permittee is hereby authorized to maintain existing landfill, Phases I and II, maintain and operate, Phases IV, V, and V-B Extension (Ext), construct and operate the new Phase III, and operate a materials drop-off facility, as shown on the application, additional submittals, and other documents on file with the Department of Health (DOH) as follows:

To Maintain/Construct: (1) A municipal solid waste (MSW) sanitary landfill consisting of approximately 42 acres in Phases I and II, approximately 18 acres in Phase IV (10 acres in Phase IV-A, 8 acres in Phase IV-B), approximately 19 acres in Phase V (Phase V-A and Phase V-B), approximately 5 acres in Phase V-B Ext, and approximately 28.1 acres in Phase III (Phase III-A, Phase III-B, and Phase II Slope Improvements [area of Phase III overlying the existing Phase II slope]). Phases I and II are closed disposal areas constructed and placed in operation prior to 1993 and are not equipped with a bottom liner but do have a leachate collection system. Phase IV-A was constructed with a bottom and side slope composite liner system comprised of a 60-mil HDPE liner on top of a geosynthetic clay liner with a permeability of 5×10^{-9} cm/sec or less. Phases IV-B, V and V-B Ext were constructed with a prescribed liner system. Leachate from Phase IV-A is collected via a leachate manhole, leachate from Phases IV-B and V is collected via a sump in Phase IV-B, and leachate from Phase V-B Ext is collected via a sump in Phase V-B Ext. Phases III-A and III-B will be constructed with a prescribed liner and a leachate collection and removal system (LCRS). The portion of Phase III overlying the adjacent Phase II slope (hereinafter "Phase II Slope Improvements") will be constructed with an alternative liner system and is designed to convey leachate to the lined Phase III-A and III-B areas. The Phase III liner system is designed to drain to a new LCRS sump, sized to service the entire Phase III lined area and the disposal capacity in the Phase II Slope Improvements area. The Phase III LCRS sump will be located in the north/northwest corner of Phase III-A. As noted previously, the floor is graded to drain to a central northerly oriented LCRS trench which drains to the LCRS sump.

Phases I and II were closed in 2007 and have a maximum elevation of 375 feet above mean sea level (MSL). Phases IV (Phase IV-A and IV-B) and V (Phase V-A, V-B, and V-B Ext) have already been constructed and are currently active. The newest expansion, Phase III shall be limited to the 28.1-acre area as indicated in the Phase III Design Report and Detailed Design Drawings prepared by A-Mehr, Inc., January 2019, Amended September 2019. Phases IV, V, and V-B Ext are contiguous and shall be limited to a maximum elevation of 390 feet above MSL. Phase III shall be limited to a maximum elevation of 390 feet above MSL.

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Not included in the landfill acreage are areas used for appurtenant uses such as offices, equipment and maintenance facilities, leachate management facilities consisting of a leachate manhole and aboveground tanks, landfill gas management area, transfer station, soil stockpile area, potential impact areas stormwater management system, perimeter road, and parking.

(2) A transfer station, including a self-haul waste drop-off area, recyclables (fiber, plastic, glass and metal) collection and special waste (white goods, used oil, lead acid batteries and tires) collection.

To Operate: (1) An MSW sanitary landfill consisting of approximately 42 acres of closed landfill in Phases I and II (for post-closure care purposes only), approximately 18 acres in Phase IV, approximately 19 acres in Phase V, approximately 5 acres in Phase V-B Ext, and approximately 28.1 acres in Phase III.

The peak daily disposal rate for MSW shall not exceed 1,600 tons per day. Adequate equipment and personnel to operate the MSW landfill facility shall be maintained. At the nominal operating rate of 800 tons per day, the site shall have a minimum of one bulldozer, one compactor, one water truck and one spotter. Greater than a nominal rate of 800 tons to a peak daily rate of 1,600 tons per day will require a minimum of two bulldozers, one compactor, one water truck and two spotters. These requirements shall be met unless otherwise approved by the DOH.

(2) A transfer station, including a self-haul waste drop-off area, recyclables (fiber, plastic, glass and metal) collection and special waste (white goods, used oil, lead acid batteries and tires) collection.

IN ACCORDANCE WITH:

- (a) The 'As-Built' drawings for Phases I and II, and The Closure and Post Closure Plan, dated February 2008, and last revised February 2017;
- (b) 'As-Built' drawings and 'Record Drawings' dated September 1, 2004 for Phases IV-A, February 8, 2007 for IV-B, September 21, 2009 for V-A, and November 11, 2010 for V-B;
- (c) "Record Drawings" dated December 17, 2018 for Phase V-B Ext;
- (d) the revised operations plan dated September 2004 and last revised in September 2019, prepared by A-Mehr, Inc. and submitted by the County of Maui, Department of Environmental Management;
- (e) the master plan dated February 2017, prepared by A-Mehr, Inc.;
- (f) the transfer station permit application dated May 2017;
- (g) the updated Groundwater and Leachate Monitoring Plan dated March 2019 prepared by CH2M Hill;
- (h) the permit application for Phase III dated September 30, 2019, including revisions and response to comments dated February 26, 2020 and May 13, 2020; and
- (i) all other engineering plans, 'as built' drawings, and engineering data.

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LOCATED AT: Pulehu Road, Puunene, Maui, Hawaii (TMK (2) 3-8-003:019).

SUBJECT TO: HRS 342H; HAR 11-58.1; Standard Conditions I; Special Conditions II;
Special Conditions III

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

This permit supersedes the Solid Waste Management Permit Number LF-0074-13 dated February 26, 2018.

(for) DIRECTOR OF HEALTH
State of Hawaii

DRAFT

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The solid waste management facility is subject to HRS Chapter 342H, *Solid Waste Pollution* and HAR Chapter 11-58.1, *Solid Waste Management Control*, and the following conditions:

STANDARD CONDITIONS I:

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of HRS Chapter 342H. The DOH will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants, or representatives, contractors or subcontractors. If any term or condition of this permit becomes invalid as a result of a challenge to a portion of this permit the other terms and conditions of this permit shall not be affected and shall remain valid.
2. This permit:
 - a. shall not in any manner affect the title of the premises upon which the facility is or will be located;
 - b. does not release the permittee from any liability for any loss due to personal injury or property damage caused by, resulting from, or arising out of the design, installation, construction, operation, maintenance, closure or post-closure of this facility;
 - c. does not release the permittee from compliance with other applicable statutes and regulations of the state of Hawaii, or with applicable federal or local laws, regulations or ordinances;
 - d. in no way implies or suggests that the state of Hawaii, or its officers, agents, or employees assumes any liability, directly or indirectly for any losses due to personal injury or property damage caused by, resulting from, or arising out of the design, construction, operation or maintenance of the facility; and
 - e. shall not constitute, nor be construed to be an approval of the design, construction, operation, maintenance, closure and post-closure of the facility beyond the regulatory requirements mandated by HRS 342H and HAR 11-58.1.
3. Issuance of this permit does not preclude the responsibility of the permittee to obtain any and all necessary approvals and permits from the appropriate federal, state, and local agencies, including zoning clearances, prior to the start of operations.
4. Unless the submitted documents and other information secured by the DOH from the permittee contain confidential information, such as secret processes or methods of manufacture, they shall be made available for inspection by the public (HRS 342-14). The permittee shall be responsible for identifying, in writing, the specific information

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asserted to be confidential. The DOH shall review the permittee's assertion and determine if confidentiality is indeed warranted.

5. This permit is valid only for the specific processes and operations applied for and indicated in the submitted application and additional submittals on file with the DOH. Any unauthorized deviation from the submitted application, drawings, operations manual, additional submittals, or conditions of this permit may constitute grounds for revocation of this permit and enforcement action by the DOH. Should there be any discrepancies between the submitted documents and the permit conditions, the permit conditions shall take precedence. A copy of the submitted application and additional submissions shall be maintained at the facility.
6. This permit is non-transferable whether by operation of law or otherwise, either from one location to another, from one solid waste disposal operation to another, or from one person to another without the written approval of the director [HAR 11-58.1-04(e)(2)].
7. This permit shall be kept at or near the operation site for which the permit is issued and shall be available upon request [HAR 11-58.1-04(f)]. A request for a duplicate permit shall be made in writing to the director within ten (10) days after the destruction, loss, or defacement of this permit. A fee of \$50 shall be submitted with the request [HAR 11-58.1-04(h)(3)].
8. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by DOH rules. The facility shall be designed, constructed and equipped so as to operate without causing a violation of applicable rules and regulations.
9. Incident Notification Requirements: The permittee shall notify the DOH, in writing or facsimile (fax), whenever there are incidents such as fire, explosion, or release of regulated material/waste, which could threaten human health or the environment (i.e. air, soil, or surface and subsurface waters). Initial notification may be by phone or fax and reported within eight hours, whenever possible, and no more than 24 hours. The notification report shall be completed and submitted by an Environmental Compliance Officer or other responsible official within seven (7) calendar days (three (3) calendar days for waste disposal facilities, such as landfills and incinerators) and shall include:
 - a. name, address, and telephone number of the owner and operator;
 - b. name, address, and telephone number of the facility at which the incident occurred;
 - c. date, time and type of incident (i.e., fire, explosion, release, etc.);
 - d. name and quantity of material(s) involved;

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- e. the extent of injuries, if any;
- f. an assessment of actual or potential hazards to human health or the environment, where this is applicable;
- g. estimated quantity and disposition of recovered and unrecovered material that resulted from the incident;
- h. evaluation of the circumstances that led to the incident;
- i. steps being taken to prevent, reduce, eliminate, and prevent recurrence, including an implementation schedule; and
- j. other information or monitoring as required by the DOH.

Notification requirements for releases only apply to releases of a quantity equal or exceeding the reportable quantity listed in HAR Section 11-451.

10. Noncompliance Notification Requirements. If, for any reason, the permittee does not comply with, or will be unable to comply with, any condition or limitation specified in the permit, the permittee shall notify the DOH verbally within 24 hours followed by a written report within seven (7) calendar days (three (3) calendar days for waste disposal facilities, such as landfills and incinerators) of the verbal notification. The written report shall be completed and submitted by an Environmental Compliance Officer or other responsible official and contain the following information:

- a. a description of and the cause of noncompliance;
- b. period of noncompliance, including exact dates and times, or, if not corrected, the anticipated duration that the noncompliance is expected to continue;
- c. steps that will be taken to correct the area of noncompliance;
- d. steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance, including an implementation schedule; and
- e. other information or monitoring as required by the DOH.

The permittee may be subject to enforcement action by the DOH, penalties or revocation of this permit.

The use of an electronic fax device or electronic mail (email) for use in written notifications is acceptable. Any data transmission or detailed explanations transmitted shall be accompanied by regular mail submissions. Failure to notify in accordance to this requirement may initiate enforcement action.

11. Monitoring and Recordkeeping Requirements: The permittee shall comply with the following monitoring and recordkeeping requirements:

- a. Upon request, the permittee shall furnish all records (i.e. transaction reports, disposal receipts) and plans required by the DOH. The retention period for all

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transaction reports and disposal receipts shall be a minimum of five (5) years; however, there shall be an indefinite retention period for all records associated with any unresolved enforcement action as determined by the DOH.

- b. The permittee shall retain at the facility or other location designated by this permit, records of all monitoring information (including all calibration and maintenance records and all original recordings of monitoring instrumentation), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The retention period shall be for the life of the facility, through closure and post-closure periods, for waste disposal facilities (such as landfills and incinerators).
 - c. Records of monitoring information shall include:
 - The dates, exact place, and time of sampling or measurements;
 - The person responsible for performing the sampling or measurements;
 - The date(s) analyses were performed;
 - The person responsible for performing the analyses;
 - Analytical techniques or methods used; and
 - Results of such analyses.
12. The permittee shall submit complete and detailed plans and reports on existing solid waste management systems and any proposed addition to, modification of, or alteration of any such systems that affects the facility's operations or procedures, or which could threaten human health and the environment, and contain the information requested by the DOH in the form prescribed by the DOH. Any submission for permit modification shall be submitted in accordance with Standard Condition No. 13. The plans and reports shall be prepared by a competent person acceptable to the DOH, and at the expense of the permittee.
13. Should the permittee decide to modify the permit or continue operation of the solid waste facility beyond the expiration date of the permit, the permittee shall submit a complete permit modification or renewal application at least one year for municipal solid waste landfills prior to the modification or the date of permit expiration. Any submission for permit modification does not affect these permit conditions until such modification becomes final in accordance with HAR §11-58.1-04, or as approved by the DOH.
14. The director may, in accordance with HRS §342H-6, enter and inspect the facility for the purpose of:
- a. investigating an actual or suspected source of solid waste or other pollution;
 - b. ascertaining compliance or noncompliance with any rule, regulation, permit condition, or standard promulgated by the DOH; and
 - c. conducting tests in connection therewith (including collecting soil, water, air, ash, and any other material or samples).

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The permittee, by accepting this permit, specifically agrees to allow authorized DOH personnel, upon presentation of credentials or other documents as may be required by law, access to the premises.

15. The DOH may require the permittee to conduct sampling and testing to determine the degree of pollution, if any, from the solid waste facility (including soil, water, air, ash, and any other materials or samples). If contamination is detected, the permittee shall remediate as necessary to protect public health and the environment.
16. When requested by the DOH, the permittee shall within a reasonable time, as specified by the DOH, furnish any information required by law, which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the DOH, such facts or information shall be submitted or corrected promptly. Upon the written request of the permittee, the deadline for submission of information may be extended, if the DOH determines that reasonable justification exists for the extension.
17. If the DOH determines that the permittee has violated or is violating any provision of HRS §342H, HAR §11-58.1, or these permit conditions, the DOH may pursue enforcement action in accordance with HRS §342H-7, *Enforcement*; §342H-9, *Penalties*; §342H-10, *Administrative Penalties*; §342H-11, *Injunctive and other relief*, or any other pertinent rules.
18. The DOH may, on its own motion, modify, suspend, or revoke a permit if, after affording the applicant a hearing in accordance with HRS 91, the DOH determines that any permit condition, rule, or provision of HRS §342H has been violated or that such is in the public interest [HAR §11-58.1-04(d)].
19. If the governor or the director determines that an imminent peril to the public health and safety is, or will be, caused by the disposal of solid waste or any combination of discharges of other waste that requires immediate action, the governor or the director, without a public hearing, may order the permittee to immediately reduce or stop the disposal, discharge, or process, and may take any and all other actions as may be necessary (HRS §342H-8).

SPECIAL CONDITIONS II: MSW Landfill
Section A. General Facility Conditions

1. The **Master Plan** dated February 2017 shall be maintained by the County for planning purposes and be revised on a regular basis of not greater than five-year intervals, or with each new permit application. If the remaining capacity of the landfill is less than 10 years, an update to the Master Plan, identifying status of obtaining additional disposal

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capacity shall be incorporated into the Annual Operating Report (AOR) in accordance with Special Conditions II Section I, Item 2m. The Master Plan shall provide information on future landfill capacity requirements in both numerical and graphical presentations with a minimum projection of 20 years and shall include the waste footprints and service lives of the existing Phase IV, V, V-B Ext, the proposed Phase III, and any proposed future lateral expansions or units. The Master Plan shall include the proposed Basis of Design, potential impact areas, appurtenant and support facilities. The Master Plan shall address special measures to permanently hydraulically isolate Phase IV-A from the remaining facility phases.

2. The final maximum elevation of Phases IV (A & B), V (A & B), V-B Ext, and III (A & B) shall not exceed 390 feet above MSL and in accordance with Operations Plan for Central Maui Landfill dated September 2019, prepared by A-Mehr, Inc.
3. **Potential Impact Areas.** The permittee shall rectify any impacts from the site on nearby areas, including any adjacent public roads or environmentally sensitive areas. MSW disposal activities shall not occur within the following areas: a minimum 150 feet from the property line along Pulehu Road, minimum 1000 feet from the property line along any present or future urban area, and minimum 80 feet of any agricultural area as defined in the Operations Plan. The permittee shall incorporate methods to minimize impacts from solid waste activities, including litter, vectors and odors.
4. **Air Criteria.** The permittee is responsible for obtaining permits and maintaining compliance with any state or federal Clean Air regulations, in accordance with HAR 11-58.1-15(e).
5. **Access Control.** The permittee is responsible for providing measures to control public access in accordance with HAR 11-58.1-15(f).
6. The permittee shall provide adequate queuing and storage space such that private self-haul and/or waste delivery vehicles will not queue on Pulehu Road outside of the landfill entrance gate, and as specified in the operations plan.
7. **Emergency Operations.** The permittee shall prepare and implement emergency operating procedures, including those in the Emergency Operating Procedures, provided as Section 14.5, in the September 2019 Operations Plan, and approved subsequent submissions.
 - a. The permittee shall provide verbal and written notification of incidents to the DOH, in accordance with Standard Conditions, Item 9 of this permit. Incidents shall also include suspected subsurface fires and be reported based on any of the notification criteria listed in the Operations Manual.

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- b. The permittee shall be prepared and implement emergency operating procedures for the minimum following situations:
 - i. Fires (including surface, nearby, incoming waste loads, vehicle/equipment, subsurface, etc.),
 - ii. Severe storm (2-year, 24-hour storm or greater, or continued rainy conditions over duration of 14 days), including hurricanes,
 - iii. Earthquakes and tsunamis,
 - iv. High winds conditions,
 - v. Hazardous material spills at or above the reportable quantity, and
 - vi. Other emergency procedures, and trigger levels, as provided in the emergency operating procedures.

- c. The permittee shall assess, monitor, and maintain/repair the landfill after emergencies that may affect the integrity of the landfill, including, but not limited to, the liner system, leachate collection and control system, surface water management system, and any other affected portions of the landfill. If the acceptance and disposal of waste ceases, the permittee shall submit a written evaluation of whether waste acceptance can resume. The evaluation shall be prepared by a professional engineer registered in the state of Hawaii and/or the landfill manager, as appropriate, certifying that the landfill and its associated environmental controls are functional, equivalent or better than required, and that operation of the landfill will not cause a violation of environmental regulations. The evaluation shall also include a description of any findings and corrective actions. The facility may resume acceptance and disposal of waste upon submission of this evaluation to the DOH. The DOH may require additional assessment, monitoring, and corrective actions, as necessary to address the event.

Section B. Construction and Maintenance – MSW Disposal Cells

- 1. Construction of Phase III, or significant modification of the Phases IV-A, IV-B, Phase V-A, Phase V-B, and/or Phase V-B Ext disposal cells, shall not occur prior to the DOH's approval of the final construction plans and specifications prepared and certified by a professional engineer, registered in the state of Hawaii, with at least five (5) years' experience in designing landfills. Upon approval, construction shall be in conformance with the final construction plans and specifications.

- 2. The permittee is responsible for obtaining the services of a registered land surveyor who shall provide a minimum second order of accuracy on: triangulation, traverse, leveling and baseline measurements of the base grades, liner grades and key location and elevation points of the leachate collection and sump system as shown on the approved

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drawings. The liner contractor and installer prior to liner placement shall certify the base grades in writing.

3. For Phase III, the bottom composite liner, side slope liner, and Phase II Slope Improvements shall be constructed in accordance with A-Mehr, Inc. drawings, dated January 2019, and these permit conditions.
 - a. The bottom liner consists of the following layers (from bottom to top).
 - i. Prepared native ground, excavated to design grades, to provide foundation support for the overlying containment system components.
 - ii. A minimum 24-inch thick low-permeability soil barrier layer, with saturated hydraulic conductivity of no greater than 1.0×10^{-7} cm/s.
 - iii. 80-mil thick textured high-density-polyethylene (HDPE) geomembrane, textured both sides.
 - iv. Non-woven 16 ounce per square yard geotextile fabric to serve as a cushion and drainage layer placed above the geomembrane.
 - v. A minimum 12-inch thick leachate collection granular drainage layer, with a hydraulic conductivity of greater than 1.0 cm/s, with a perforated pipe along low points to collect and convey liquids to the leachate sump.
 - vi. Non-woven 16 ounce per square yard geotextile filter fabric placed above the LCRS granular drainage layer.
 - vii. A minimum 24-inch thick protective (operations) soil layer.
 - b. The side slope liner consists of the following layers from (from bottom to top):
 - i. Prepared native ground, excavated to design grades of 2:1 (horizontal: vertical) slopes, to provide foundation support for the overlying liner system components;
 - ii. A minimum 24-inch thick low-permeability soil barrier layer, with saturated hydraulic conductivity of no greater than 1.0×10^{-7} cm/s;
 - iii. 80-mil thick textured high-density polyethylene (HDPE) geomembrane, textured on the bottom and smooth on top;
 - iv. Non-woven 16 oz/sy geotextile fabric to serve as a cushion and drainage layer placed above the geomembrane;
 - v. A protective, UV resistant, flexible membrane rain cap; and
 - vi. A minimum 24-inch thick protective (operations) soil layer.
 - c. The Phase II Slope Improvements alternative liner consists of the following (from bottom to top)
 - i. Low permeability soil liner shall be a minimum 24 inches thick and constructed with a maximum permeability of 1.0×10^{-5} cm/sec.
 - ii. A minimum 24-inch thick gravel drainage layer with a minimum permeability of 8 cm/sec.
 - iii. A protective, reinforced flexible membrane liner rain cap, Make, Model: DURA-SKRIM 12WB or equivalent (rain cap will not be removed from the slope and will be retained during refuse placement).

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- iv. A minimum 12-inch thick protective (operations) soil layer.
 - d. Alternative to Special Condition B.3.c., the Phase II Slope Improvements may utilize a composite liner and leachate collection system design in accordance with HAR section 11-58.1-14(b)(2). If this option is selected, the permittee shall submit specific information on liner design and materials, and design details on the transition from Phase II Slope to the bottom liner, and on the transition/anchor details on the outer limits of the Phase II side slope liner.
4. Construction of the composite liner system shall be in accordance with the plans and specifications approved by the DOH. The QA/QC engineer shall observe construction, perform testing as specified in the most recent Technical Specifications and Construction Quality Assurance Plan dated January 2019, and certify that the liner and leachate system comply with the approved plans and specifications, and these permit conditions.
5. Lined side slopes shall not exceed (be no steeper than) the slope of two to one (horizontal: vertical). Cell floor liner grades shall be a minimum 1.3% downgrade slope to the collection sump, and a minimum 2% cross slope to the leachate collection trenches as specified in the landfill operations plan, or as approved by the design engineer with concurrence from the DOH. The liner grades shall prevent accumulation of 30 cm or more of leachate head anywhere on liner system.
6. Installation of any geosynthetic liner shall be performed by an experienced installer who has installed a minimum of 500,000 square feet of similar type liners or shall be performed under the supervision of the manufacturer. An experienced QA/QC landfill inspector with at least five (5) years of experience in landfill CQA, and works under the supervision of a professional engineer, shall observe liner installation and grade elevations. The permittee shall notify the DOH, in writing, at least five (5) days prior to any liner installation work.
7. The leachate collection system shall be installed per the approved plans and drawings. The Phase III liner system will drain to a new LCRS sump, sized to service the entire Phase III lined area and the disposal capacity in the Phase II Slope Improvements area. The Phase III LCRS sump will be located in the north/northwest corner of Phase III-A. The floor shall be graded to drain to a central northerly oriented LCRS trench which drains to the LCRS sump. The entire lined floor shall be covered with a 12-inch thick gravel drainage layer which conveys leachate to the 12-inch deep collection trench filled with gravel and an 8-inch diameter perforated HDPE pipe which will convey leachate to the sump in accordance with the A-Mehr, Inc. drawings, January 2019.
8. To provide for protection of underlying groundwater resources equivalent to an impermeable liner, improvements shall be made to the existing Phase II slope prior to

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placement of additional refuse during the operational life of the Phase III disposal area. To ensure positive drainage of leachate from the Phase II slope to the Phase III LCRS, the existing Phase II slope will be modified to provide for a positive slope in all areas. Most areas of the existing Phase II slope ranges in grade from 25% to 35%, however some areas, such as bench roads, are flatter. Portions of the slope graded at less than 10% shall be modified by placement of additional compacted soil fill. In areas that will receive additional soil fill, where there are existing paved roads and/or concrete ditches, the roads and ditches will be removed prior to placement of additional soil fill. The resulting overall slope will average no less than 24%. Two feet of compacted low permeability soil, shall be placed over the areas of the slope receiving additional soil fill. Along the perimeter of areas receiving additional soil fill, the additional low permeability soil layer shall be tied into the low permeability soil layer of the existing Phase II final cover to provide a continuous low permeability layer across the entire prepared Phase II slope area. The entire prepared Phase II slope, within the Phase III refuse limits, shall have a liner system compliant with Special Condition B.3.c., and slope towards the Phase III liner/LCRS where any leachate generated within the overlying refuse fill will be managed. Above the regraded Phase II slope, a 2-foot thick lateral drainage/protective soil layer, consisting of highly permeable ($k = 8 \text{ cm/s}$) crushed rock, shall be placed over the 11.3 acres area of the affected Phase II slope. The bottom edge of this permeable drainage layer placed above the existing low permeability final cover soil shall tie in with the drainage layer at the base of the landfill cell.

9. The existing Manhole 4 leachate sump, which is connected to a leachate collection system located at the base of the Phase I and Phase II refuse, is located near the northwest edge of the Phase II slope. This manhole, its foundation and riser were reconstructed during the Phase I and II final closure project using a design similar to that used for the LCRS sumps in Phase IV-B and Phase V-B Ext. This manhole shall be preserved and maintained during the construction and operation of the Phase III disposal area. The design and construction of the bottom liner system around the manhole shall prevent leachate movement around and through the manhole to beneath the landfill liner system. The reinforced concrete vertical riser pipe will be extended as refuse fill is placed to the design grades in the surrounding area. The County shall continue to monitor the manhole for leachate and remove leachate as it is generated throughout the operational and post closure period of Phase III. To prevent air intrusion into the landfill through the manhole, the riser shall be sealed with a gasketed cover or other means. The manhole seal shall be designed to accommodate the monitoring of leachate and landfill gases in the manhole. The seal shall also accommodate the expeditious pumping of leachate as required.
10. The permittee shall retain a professional engineer, with at least five (5) years' experience in designing landfills, and registered in the state of Hawaii, to provide construction quality assurance (CQA) for construction of new lined disposal cells. Upon completion of

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construction, the professional CQA engineer shall prepare a report for submittal to the DOH at least thirty (30) days prior to proposed placement of the waste in the cell. The CQA Report shall contain, at a minimum, the following:

- a. Documentation of quality assurance/quality control testing procedures.
 - b. Summary of field test results demonstrating that the liner and leachate collection systems were constructed as designed, including but not limited to, compaction tests, weld tests.
 - c. Summary of results of laboratory analyses, demonstrating that the materials used met design criteria and assumptions, including but not limited to sieve analysis, compaction curves, permeability tests, and interface friction test results for side slopes with comparison between manufacturer specification and field results.
 - d. A map of each sector showing panel layouts as installed.
 - e. Liner inspection reports.
 - f. Certification that all weld test results and vacuum or pressure testing of all welded seams and other seams was visually observed.
 - g. Certification that the bottom and side slope liners, and leachate collection system have been installed in accordance with the plans as approved by the DOH, and these permit conditions.
 - h. As-built and survey drawings documenting the cell construction, including the location and elevation of base grades, liner system, and leachate collection system.
 - i. Detailed documentation to show that liner were properly joined to liner in previous constructed sections, and/or the construction of anchor trenches and berms.
 - j. A survey drawing of the cell floor liner grades of the downgrade slope to the Phase III collection sump to verify a minimum 1.3% slope. Survey points will be reported at minimum 20-foot intervals.
 - k. Identification of any deviations from the construction plan, reason for the deviation and affect on the integrity of the design.
11. No solid waste shall be placed in any new cell or portion thereof until: (1) the professional CQA engineer certifies, by submittal of the report referenced in Special Conditions II.B.10 or a letter containing the certifications required therein, completion of construction in accordance with approved drawings; and (2) the permittee coordinates an inspection of the liner system, leachate collection system, and leachate sump for each new cell or portion thereof by the DOH, with the presence of the design engineer and on-site facility operator. Requests for inspection shall be given at least 21 days in advance of the inspection date.
12. The first layer of solid waste shall consist of a minimum thickness of 5 to 6 feet of select waste. Select waste is waste that is screened for the removal of objects that can cause

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puncture or displacement damage and contains material no larger than 24 inches in size. The thickness of the select waste layer shall be determined based on the size/weight of the compactor and shall be defined in the Operation Plan. Material that may cause puncture or displacement damage to the liner shall be removed. Compactor work on the select waste layer shall avoid wheel spinning, twisting or any other activity that may cause damage to the liner. Equipment operation directly on the operations layer shall be prohibited. A record documenting select waste screening and placement shall be maintained at the facility and provided to the DOH with verification by the CQA engineer including photo documentation. An alternate select waste placement may be used if approved by the DOH.

13. Containment systems in Phases IV-B, V (A & B), V-B Ext, and Phase III shall be constructed and maintained with no deformation to withstand the maximum horizontal acceleration due to the design earthquake (0.36g) for Seismic Zone 2B as defined by the United States Geological Survey. Following any occurrence of an earthquake determined to cause horizontal acceleration at the site equal to or greater than the design event, the permittee shall inspect any exposed liner system to identify and assess any damage that may have occurred. A report of the inspection shall be filed with the DOH within 30 days following the event, including proposed corrective actions to repair any damage identified by the inspection. A professional engineer registered in the state of Hawaii shall conduct the inspection and prepare the report.
14. Once constructed, the permittee shall maintain the integrity of the liner system and leachate collection system as designed and constructed (inclusive of all landfill phases). In the event that damage has occurred, the permittee shall repair the liner and/or leachate collection system, or implement equivalent or better alternative environmental controls as approved by the DOH.
15. For Phases IV-B, V-A, and V-B, the bottom liner was constructed in accordance with A-Mehr, Inc. drawings, July 2006, June 2008 and September 2009, respectively. The bottom liner consisted of the following layers (from bottom to top).
 - a. Prepared subbase grade.
 - b. A minimum of 24-inch thick low permeability soil liner, with a maximum permeability of 1.0×10^{-7} cm/sec for both cell floor and side slope areas.
 - c. An 80-mil HDPE geomembrane, textured on both sides.
 - d. A 16-ounce per square yard nonwoven geotextile.
 - e. A 12-inch gravel leachate collection layer, with a maximum 1.5-inch diameter particle size and a minimum hydraulic conductivity of 1.0×10^{-2} cm/sec.
 - f. A 16-ounce per square yard nonwoven separating geotextile.
 - g. A minimum 24-inch operations layer material, with a maximum aggregate size of 6 inches, and not more than 12 percent passing a No. 200 sieve for the cell floor.

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- h. The side slope liner consisted of:
 - i. Prepared subbase grade and low permeability soil liner, as described in 14.a. and 14.b. above;
 - ii. An 80-mil HDPE geomembrane, textured on the bottom side;
 - iii. A 16-ounce per square yard nonwoven geotextile; and
 - iv. A minimum 24-inch thick soil operations layer, with 100 percent passing a 2-inch sieve.
16. For Phase IV-A, a portion of the cell floor and side slope liner was repaired in accordance with A-Mehr, Inc. drawings, dated September 2004. The portion of the bottom liner that was repaired as specified in the A-Mehr Drawings, dated July 2004, consisted of the following layers (from bottom to top).
- a. Prepared subbase grade.
 - b. A geosynthetic clay liner (GCL).
 - c. A 60-mil HDPE geomembrane, textured on both sides.
 - d. A 16-ounce per square yard nonwoven geotextile.
 - e. A 12-inch gravel leachate collection layer.
 - f. A 16 ounce per square yard nonwoven separating geotextile.
 - g. An operations layer with a minimum thickness of 24 inches.
 - h. The side slope liner consisted of:
 - i. Prepared subbase grade and GCL;
 - ii. 80-mil HDPE geomembrane, textured on the bottom side;
 - iii. 16-ounce per square yard nonwoven geotextile; and
 - iv. Minimum 24-inch thick soil operations layer.
17. For the remainder of Phase IV-A, the original bottom liner was constructed in accordance with Parametrix, Inc. drawings, dated June 1998. The cell floor and side slope liner consisted of the following layers (from bottom to top).
- a. Prepared subbase grade.
 - b. A cushion layer.
 - c. A GCL.
 - d. A secondary 60-mil HDPE smooth FML.
 - e. A geocomposite drainage layer.
 - f. A primary 60-mil HDPE smooth FML.
 - g. A 16-ounce per square yard nonwoven geotextile.
 - h. An 18-inch thick soil operations layer.
18. For Phase V-B Ext the bottom liner was constructed in accordance with A-Mehr, Inc. drawings, December 2018. The bottom liner consisted of the following layers (from bottom to top).

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- a. Prepared subbase grade.
- b. A minimum of 24-inch thick low permeability soil liner, with a maximum permeability of 1.0×10^{-7} cm/sec for both cell floor and side slope areas.
- c. An 80-mil HDPE geomembrane, textured on both sides.
- d. A 16-ounce per square yard nonwoven geotextile.
- e. A 12-inch gravel leachate collection layer, with a maximum 1.5-inch diameter particle size and a minimum hydraulic conductivity of 1.0×10^{-2} cm/sec.
- f. A 16-ounce per square yard nonwoven separating geotextile.
- g. A minimum 24-inch operations layer material, with a maximum aggregate size of 6 inches, and not more than 12 percent passing a No. 200 sieve for the cell floor.

Section C. Acceptance Criteria

1. The permittee is authorized to accept for landfill disposal, solid wastes, as defined in HAR 11-58.1-03, except as further described in this section.
2. The permittee shall implement a Waste Acceptance & Hazardous Waste Exclusion Program as set forth in the Operations Plan for Central Maui Landfill that meets the following conditions, Section C Items 2 to 4. Should there be conflicts between the Operations Plan and the permit or solid waste rules, the latter shall prevail.
 - a. The permittee shall make every practicable effort to screen waste and prevent unacceptable waste from entering and being disposed at the landfill.
 - b. The permittee shall post a sign on the property that lists unacceptable wastes.
 - c. The permittee shall conduct random inspections of mixed commercial loads (not inclusive of loads known to only contain single-source-separated materials, such as sludge), at least six times per week, to spot check for unacceptable wastes. The permittee shall document findings on the Load Check Data Sheet.
 - d. The landfill operators at the active workface shall visually screen the contents of each load and remove unacceptable waste.
 - e. If unacceptable waste is observed, the permittee shall reject the load. If the waste has been unloaded, the permittee shall separate the unacceptable waste, move it away from the active workface, and manage and dispose of it in accordance with applicable regulations.
 - f. Operators shall receive training on random inspections and unacceptable waste handling procedures set forth in the Operations Plan. Training shall be attended at least once per year, or more frequently as needed to ensure compliance with the facility procedures.
 - g. The permittee shall maintain records of random inspections on the Load Check Data Sheets, and personnel training.
 - h. Unacceptable waste is defined as:

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- i. Regulated hazardous waste, as defined in state hazardous waste regulations;
 - ii. Radioactive waste, which shall be managed in accordance with HAR 11-58.1-64;
 - iii. Polychlorinated biphenyl (PCB) waste, as defined in 40 CFR Part 761;
 - iv. Untreated infectious waste, excluding infectious waste generated within the household, in accordance with HAR 11-58.1-63;
 - v. Bulk or non-containerized liquid waste, except as provided in HAR 11-58.1-15(i);
 - vi. Containers holding liquid waste, except as provided in HAR 11-58.1-15(i)(2);
 - vii. Commercial loads containing greater than 25% greenwaste and household loads containing greater than 50% greenwaste, in accordance with HAR 11-58.1-65(b);
 - viii. Scrap automobiles, white goods, and whole motor vehicle tires, in accordance with HAR 11-58.1-65(c);
 - ix. Lead acid batteries, in accordance with HRS 342I;
 - x. Compressed gas tanks; and
 - xi. Other unacceptable wastes listed in the Operations Plan.
3. If unacceptable waste is identified at the landfill, the permittee shall separate the waste, manage, store, transport, and recycle/dispose of it in accordance with the Central Maui Landfill Operations Plan and applicable laws and rules. Unacceptable waste identified at the facility shall not be disposed of at the landfill.
- a. Unacceptable waste shall be transported from the landfill prior to posing a nuisance, health, or safety concern.
 - b. Unacceptable waste shall be transported to a permitted solid waste management facility allowed to accept the waste, or appropriate out-of-state recycling/disposal facility.
 - c. The permittee shall maintain a daily operational log of unacceptable waste turned away from the landfill or separated from disposal, including date, hauler, waste type, estimated quantity, and destination.
 - d. The permittee shall notify the DOH, in writing, within 24 hours or the next working day of the identification of hazardous or PCB waste. The notification shall include the date and time of incident, origin of the waste, hauler/generator, description and quantity of waste, actions that will be taken to manage the waste at the site, and actions that will be taken to remove the waste from the premises. The permittee shall also provide written notification, including a copy of the associated manifests, within seven (7) days of removal of the waste from the facility.

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4. Radioactive wastes shall be managed in accordance with HAR 11-58.1-64. The permittee shall implement the Radioactive Waste Monitoring Program that is provided in Appendix K of the Central Maui Landfill Operations Plan, revised September 2019. In accordance with the program, all incoming loads will be screened with a radiation detector to prevent the acceptance of radioactive wastes. If a radioactive load is identified, the permittee shall complete and submit a Radiation Monitoring Report, documenting the date, time, actions taken, and resolution of the event.

5. The permittee shall implement the Special Waste Acceptance Program provided in the Central Maui Landfill Operations Plan that meets the following conditions listed within this item. Should there be conflicts between the Operations Plan and the permit or solid waste rules, the permit and rules shall prevail. The DOH may require periodic revisions to the plan.
 - a. The permittee shall pre-approve special wastes, prior to acceptance at the facility.
 - b. The permittee shall maintain written documentation and implement special handling procedures associated with each type of special waste. The procedures shall be based on the physical, chemical or pertinent characteristics of the special waste.
 - c. Special waste means any solid waste which, because of its source or physical, chemical, or biological characteristics, requires special consideration for its proper processing or disposal, or both, includes, but is not limited to:
 - i. Asbestos.
 - ii. Semi-solid wastes including:
 - (1) Water separation, car and equipment wash wastes;
 - (2) Sewage sludges; and
 - (3) Underground storage tank and other sludges.
 - iii. Off-specification and outdated products.
 - iv. Baghouse dusts.
 - v. Inorganic filter cakes.
 - vi. Treated infectious waste.
 - vii. Dead animals and offal.
 - viii. Contaminated Materials including:
 - (1) Contaminated soils and debris, including: resins and chemical debris, petroleum and other contaminated soils, and petroleum and other contaminated debris;
 - (2) Sandblast grits;
 - (3) Waste that are toxic in nature, such as insecticides, poisons, or radioactive materials (provided that they are not regulated under another authority such as RCRA Subtitle C, TSCA that requires disposal other than at a permitted MSW landfill); and

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- (4) Other solid waste, which may be accepted for disposal such as contaminated industrial/commercial waste and non-TSCA regulated PCB waste, provided such materials are not regulated hazardous waste.
- ix. Other special waste listed in the Operations Plan.
- d. The permittee shall maintain records of contaminated material approvals and acceptances. The records shall include: acceptance date(s), quantity and description of waste, origin of waste, waste profile sheet/approval manifest; proposed management of contaminated material; and any special management and handling procedures. The record shall be made available to the DOH upon request.
- e. Contaminated soils under current DOH Environmental Action Levels (EALs) for commercial/industrial direct-exposure may be stored and used as daily cover at the MSW landfill working face. Contaminated soils that exceed the EALs for unrestricted use shall not be used as intermediate or final cover.
- f. Records of all special waste documentation shall be maintained at the facility.

Section D. Operation of the MSW Landfill

1. The peak daily disposal rate for MSW shall not exceed 1600 tons per day. Adequate equipment and personnel to operate the MSW landfill facility shall be maintained. At the nominal operating rate of 800 tons per day, the site shall have a minimum of one bulldozer, one compactor, one water truck and one spotter. Greater than a nominal rate of 800 tons to a peak daily rate of 1600 tons per day requires a minimum of two bulldozers, one compactor, one water truck and two spotters. These requirements shall be met unless otherwise approved by the DOH. The DOH shall be notified if the average disposal rate for a 12-month period exceeds an 800-ton per day nominal average or the 1600-ton per day peak disposal rate limit.
2. A permanent **sign** shall be posted at the facility entrance identifying the facility, the hours and days of operation, and the name and address of the operator, a telephone number and other pertinent information.
3. An **all-weather access road** shall be maintained into/out of the facility site, through the entrance facility and to/from the working face of the landfill.
4. Provide and maintain **controlled access** to the facility site in the form of fences and gates along the perimeter where natural barriers do not provide a means of controlled access. When natural barriers no longer prove to be an effective means of providing

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controlled access, then fences and gates shall be provided to meet the requirements of controlled access. All gates shall be kept locked when an attendant is not on duty.

5. Scavenging at the facility by the general public is prohibited.
6. **Operations Personnel Training.** Landfill operations shall be supervised at all times by an individual who has completed a Manager of Landfill Operations training course conducted by the Solid Waste Association of North America or equal as agreed upon by the DOH. Records of such training shall be placed in the facility's operating record and made available upon request.
7. **Program for Regular Training.** The permittee, at a minimum, shall provide training to landfill operators annually. Operators shall be familiar with the Operations Plan by the uses of regular training presentations by supervising staff. Records of such training shall be maintained at the facility and provided to the DOH upon request.
8. The facility shall have a Site Manager and Environmental Compliance Officer, who shall be knowledgeable of state solid waste laws, regulations, these permit conditions and the permit application components including the Operations Plan.
9. The **Operations Plan**, revised September 2019, and approved subsequent revisions shall be implemented. The DOH may periodically require revisions to the Operations Plan. This may include, but is not limited to, revisions based on findings from site inspections that are deemed necessary by the DOH. Any changes to the Operations Plan require approval from the DOH. Depending on the scope of the change, a permit modification may also be required. If there are discrepancies between the Operations Plan and these permit conditions or HAR 11-58.1, the permit conditions or rules shall take precedence.
10. **User Population.** The permittee shall maintain a list of the types of users for operator reference and regulatory review. If the user population changes, the permittee shall submit a written update of such change. The written update shall propose adjustments to the waste screening and review process, as appropriate to respond to the changes in the user population.
11. **Mud Prevention Program.** The permittee shall provide measures for minimizing the tracking of mud onto public roads from the site. The measures shall include on-site road maintenance and cleaning, a wet-weather disposal area, and a truck or truck wheel cleaning area for vehicles prior to leaving the site. Possible truck or truck wheel cleaning measures that may be implemented include: rumble strip, drive-through tire wash, trash clean out pad, and/or wash pad.

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12. **Dust Control Program.** The permittee shall provide measures to control dust from roads and all other areas of the site. The measures shall include road treatments and water sprays to minimize dust generation. Open areas of the landfill that are not to receive waste for a one-year period or more shall be further treated to minimize dust generation and erosion.
13. **Soil Cover Stockpile** stored within the landfill waste footprint shall be limited to a 30-day capacity and shall include stormwater controls. Cover material stored on the MSW landfill shall be placed on top of at least 12 inches of intermediate cover and shall not impede surface water flow. Storage of gravel for roads/wet weather and landfill equipment on the MSW landfill shall also be placed atop at least 12 inches of intermediate cover and shall not impede surface water flow. If the daily cover soil to be stockpiled exceeds unrestricted use EALs, placement of the stockpile should be limited near the workforce, where stormwater from the stockpile area will not enter the stormwater system or soil will not disperse from the workforce area and onto intermediate cover areas.
14. **Daily Cover** shall be a minimum of six inches of earthen material or an alternative in accordance with HAR 11-58.1-15(b), with no exposed waste. Aggregate size shall be less than 2.5 inches and well-graded (having the representation of all particle sizes less than the specified maximum). Three types of Alternative Daily Cover (ADC) materials have been approved. As specified in your demonstration reports, the permittee may implement the following alternatives:
 - a. **Greenwaste Mulch.** Greenwaste mulch shall be less than 6 inches in size, and shall only be used on an active working face that will receive waste on the following day. The top deck and side slope not receiving additional waste shall be covered with soil. The material shall achieve a minimum compacted cover thickness of 10 inches, but shall not exceed 12 inches. This ADC shall not be used in wet weather, or under high wind conditions. Mulch, if stored on the landfill, shall consist of no more than one-week's volume, and shall be stored on 12 inches of intermediate cover in windrows no higher than five feet high and no wider than 12 feet at the base to reduce the potential for fire. Mulch windrows shall be routinely monitored for fire potential and turned as necessary.
 - b. **Compost Rejects.** Compost rejects that are larger than the acceptable size for compost (greater than 3/8-inch) may be used as an ADC only on the active work face that will receive waste on the following day. The material shall achieve a minimum compacted cover thickness of 10 inches, but shall not exceed 12 inches. This material shall meet the compost requirements in 40 CFR Part 503 before use. Compost rejects shall not be used in wet weather. Compost

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rejects shall not be stored at the landfill and shall be transported at the time of daily cover placement.

- c. Polyethylene Tarps: The use of tarps as ADC is limited to the active workface and is limited in area to three (3), 30 feet by 100 feet, minimum 6.5 ounce per square yard, polyethylene tarps. Tarps shall not be used on exterior slopes, inactive cells, or areas requiring intermediate cover. The area where ADC was used shall be covered with waste or a minimum of six (6) inches of soil daily cover within twenty-four (24) hours after initial ADC placement. The use of tarps as ADC shall not exceed two (2) consecutive days and shall cease when waste cell capacity reaches 2,100 tons in a six-day workweek, whichever comes first. A minimum of six (6) inches of earthen material shall be placed as daily cover when the two-day usage (on Saturday for Sunday closure) or cell capacity of 2,100 tons is reached. Should the permittee note nuisance conditions, such as odor, vector, or excessive litter prior to the second consecutive day or 2,100-ton limit, the permittee shall place a minimum of six (6) inches of earthen material instead of the tarp. The permittee shall limit the footprint of the active workspace to an area smaller than the dimensions of the tarp. If exposed waste is present outside the footprint of the tarp, a minimum of six (6) inches of earthen material shall be used to cover any exposed waste. There shall be no exposed waste at the end of the workday. The permittee shall not use tarps as ADC on days when wind speeds and/or gust will cause unsafe use of the tarps, but at a minimum, tarps as ADC should not be used on days when sustained wind (over a two minute period) exceed thirty (30) mph at the active workface. The permittee shall visually inspect the tarps prior to each use for damage or excessive wear, including tears and holes. The tarps shall be repaired or replaced if damage may interfere with the ability to control disease vectors, fires, odors, litter, or if the damage is greater than six (6) inches in length. This condition may be revised based on the request of the permittee based on demonstration, and approval by the DOH.
15. The permittee may submit a written proposal to request the use of an ADC, comprised of alternative materials of an alternative thickness (other than at least six inches of earthen material). Request for the use of additional ADC materials as cover shall be submitted in writing to the DOH at the address listed in Special Conditions II.I.1.
- a. The request shall evaluate the proposed ADC to its specific characteristics and its appropriate use at the facility.
- b. The permittee shall obtain DOH approval prior to commencement of the demonstration project.

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- c. The DOH requires demonstration periods in 6-month increments to show that the ADC and its proposed thickness can control disease vectors, fires, odors, nuisance, litter and scavenging without presenting a threat to human health and the environment.
- d. The use of ADC is limited to daily cover use.
- e. The demonstration period shall include oversight by the DOH and at the end of increment period, the permittee shall report the performance of the ADC as to its specific characteristics and appropriate use at the facility.
- f. The permittee shall obtain DOH approval, in writing, prior to commencement of continued use of ADC beyond the demonstration period. The DOH may impose conditions on the use of ADC. Those conditions shall become part of this permit.
- g. The demonstration period or the approved use of an ADC may be rescinded or cancelled by either the DOH or permittee at any time without cause.

16. **Daily Cover-Monitoring-Verification-Program with Recordkeeping.** The permittee, using appropriate personnel shall take digital photos of the workplace at the middle of each workday and at the end of each workday, from the same perspective, to demonstrate adequate placement of daily cover. The photos shall be transmitted to the DOH's landfill inspector via email on a daily basis within 12 hours with cell location information. The photos shall be maintained on file at the facility and certified as to its authenticity by the appropriate personnel. The DOH may require changes to the program at any time including the use of independent third parties.

The Daily Cover Monitoring Verification Program shall include quantitative records of daily waste disposed, approximate cell dimensions and daily soil cover and/or ADC used in tons and cubic yards.

17. **Intermediate cover** is required for all inactive waste areas. Inactive waste areas are areas that do not receive waste within a 30-day period. Intermediate cover shall be a minimum of 12 inches of earthen material including daily cover, and be capable of shedding and directing stormwater to conveyance systems and withstanding traffic. Regardless of the time period since last receiving waste, all areas that have vehicular traffic shall be covered with intermediate cover.

Intermediate cover shall be maintained on a regular basis including repairs by September 1 of each year for erosion and cracking. Recordkeeping of annual repairs shall be in accordance with Special Conditions II.E.2a. All intermediate slopes and top deck that are not to receive waste for a 1-year period shall be vegetated or have an equivalent plan to minimize infiltration and prevent dust and erosion. Intermediate cover shall shed and direct stormwater to conveyance systems.

Soil used for intermediate cover shall meet DOH EALs for residential/unrestricted use.

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18. **Disease Vector Control.** The permittee shall provide measures to evaluate, prevent and/or control on-site populations of disease vectors and minimize nuisance conditions, and document any associated activities. At a minimum, such measures shall be taken on a monthly basis and shall be implemented as discussed in the Operations Plan. The measures shall meet the requirements of HAR 11-58.1-15(c).
19. **Litter Control.** The permittee shall provide measures to minimize free litter in the landfill and prevent its occurrence beyond the property line of the facility. All windblown material on the primary litter fences shall be collected and be properly disposed of by the end of the workday. The measures, at a minimum, shall include:
 - a. The use of portable litter screens which shall be deployed within 100 yards of the active workface.
 - b. The use of permanent or semi-permanent litter screens or fences in primary and secondary control positions.
 - c. Litter cleanup in the event of a major windstorm or other incident in which litter escapes the normal litter containment systems.
 - d. Provisions for a truck clean-out area near the active workface that shall be maintained on a daily basis. The truck clean-out area shall have litter control fencing and disposal receptacles for truck clean-out.
 - e. The collection of litter shall be quantified with the number of litter pickers and the number of bags of litter collected on a daily basis.
20. **Asbestos Disposal.** The permittee shall ensure that the disposal of asbestos waste is in accordance with current NESHAP (National Emission Standards for Hazardous Air Pollutants) regulations, 40 CFR Part 61 and state asbestos regulations, whichever is more stringent. Asbestos disposals shall be immediately covered on a daily basis with a minimum of 2 feet of cover unless managed in a dedicated disposal area. Disposals in dedicated disposal area shall be identified to the public and covered daily. All disposal locations for asbestos shall be recorded by GPS (global positioning system) for future reference.
21. **Odor Control.** The permittee shall implement procedures for identifying odorous waste received at the landfill, and implement odor control procedures and/or mechanisms to control odor at the landfill. Odor control measures include acceptance standards for the receipt of waste, special handling at the landfill and immediate burial under a minimum of 2 feet of compacted soil. If the selected mechanisms are not adequate, the DOH may require that additional measures be taken.
22. **Dead Animals and Offal.** The permittee shall immediately place a minimum of two feet of compacted soil or solid waste over any accepted dead animals, offal or odorous

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waste. The cover soil or solid waste shall be compacted and be of sufficient thickness (2 feet minimum) to control the release of odors.

23. **Inclement Weather.** A wet weather deck shall be prepared to allow for safe disposal of waste during times of inclement weather.
24. The permittee shall stop accepting waste when the landfill has reached its design capacity or is terminated by any land use permits, whichever comes first, and begin closure actions as delineated in Special Conditions II.H.
25. The permittee shall install and maintain grade survey control markers in sufficient number to demonstrate compliance with final permitted grades when the active phases near disposal capacity.

Section E. Surface Water Management

1. **Surface Water Management.** At a minimum, the permittee shall:
 - a. Provide run-on control to prevent flow onto the active portion during peak discharge from a twenty-five-year storm, and run-off control from a twenty-five year 24-hour storm, as provided in HAR 11-58.1-15(g).
 - b. Prevent soil erosion and exposure of waste. Surface water that comes into contact with waste material shall be managed as leachate. Should waste become exposed or soil cover materials erode, the permittee shall repair the cover immediately.
 - c. Prevent a discharge of pollutants into waters of the United States, or the violation of any requirement of the Clean Water Act or state water quality standards, Title 11 Chapter 54.
 - d. Comply with all state and federal requirements related to water quality, as provided in HAR 11-58.1-15(h).
2. **A Surface Water Management Plan** shall be prepared and updated **annually** and filed with the DOH no later than September 1 of each year. The surface water plan shall include the surface water management of all areas in the Central Maui Landfill. It shall contain the following information:
 - a. Report of an annual inspection of surface water management features and facilities, together with a description of required maintenance and changes, which shall be completed by September 1 of each year.

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- b. Updated drawings showing current topography of the landfill, surface water drainage paths and conveyances, and drainage system modifications planned for the next year in response to waste filling.
 - c. All areas with intermediate cover shall be graded to direct surface water away from the workface and towards the surface water collection system.
 - d. Engineering calculations documenting the capability of the surface water management system to comply with the run-on and run-off requirements listed under Special Conditions II Section E, Item 1.
 - e. Any Storm Water Pollution Prevention Plan, Storm Water Pollution Control Plan, or Spill Prevention Control and Countermeasure Plan prepared pursuant to federal requirements under the Clean Water Act or state requirements under HAR Chapter 11-55, Water Pollution Control.
3. The permittee shall ensure that appropriate drainage as well as static and seismic stability is provided in the landfill design. Based on the submitted design and analysis, top deck areas of the landfill will have minimum slopes of 2% to 5% to promote drainage. Interim side-slope grades will not exceed 2 horizontal to 1 vertical. Final side slope grades will not exceed 2.5 horizontal to 1 vertical.
 4. Stockpiled materials within the landfill waste boundary shall be limited to cover material, and gravel for roads/wet weather pad. The volume of stockpiled soil and gravel shall not exceed a limit of 30 days' capacity and have stormwater controls. Stockpiled soil and gravel shall not exceed permit grades.

Section F. Perimeter Gas Management

1. The permittee shall implement the Perimeter Landfill Gas Management Monitoring Plan for all phases (I, II, IV, V, V-B Ext, and III) of the landfill, revised September 2019 by A-Mehr, Inc., and approved subsequent revisions. The DOH may periodically require revisions to the new revised plan. The program shall be conducted in accordance with HAR 11-58.1-15(d) and these permit conditions:
 - a. The permittee shall monitor the concentration at depths that will minimize the infiltration of and dilution from atmospheric air.
 - b. The well shall not be vented or opened prior to measuring the gas concentration. The permittee shall minimize the amount of time that the probe is open prior to recording the gas concentrations.
2. The permittee shall monitor the concentration of gases, including oxygen, methane and carbon dioxide. The permittee shall monitor the concentration of gases in facility structures, including temporary structures, and at the property boundary on a quarterly basis, or other frequency as approved by the DOH. If an exceedance is identified, the

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permittee may conduct a verification-monitoring event, provided that the verification monitoring is conducted within one (1) hour of the initially detected exceedance. If exceedances or other anomalous condition is identified, the DOH may increase the frequency of monitoring events.

- a. The concentration of methane gas shall not exceed 25% of the lower explosive limit (LEL) for methane in facility structures.
 - b. The concentration of methane gas shall not exceed the LEL for methane at the facility property boundary.
3. The permittee shall inspect and maintain the gas monitoring probes. In the event that a probe is unusable, the permittee shall repair the probe or install a new probe prior to the next monitoring event.
- a. If the probe is repaired, submit documentation to the DOH indicating the reason for repair, type of repairs completed, and evaluations performed to ensure the probe is acceptable for use.
 - b. If the probe is replaced:
 - i. The permittee shall update the Perimeter Gas Monitoring Plan to show the new probe location and identification number within thirty (30) days. The update shall also document the reason for replacing the probe.
 - ii. The permittee shall submit an installation report for the new probe within thirty (30) days of completion. The installation report shall include, but is not limited to, geologic logs of each probe location, surveyed locations and elevations of probes, and as-build drawings of each monitoring probe.
 - iii. The permittee shall abandon the unusable probe, and submit associated documentation.
4. The permittee shall ensure that the field meters are factory calibrated in accordance with manufacturer's specifications. The permittee shall also field calibrate the meters prior to each monitoring event in accordance with the manufacturer's recommendations. The permittee shall conduct monitoring events only with equipment that has been properly calibrated and maintained.
5. The permittee shall submit a report with results within 45 days of each monitoring event. The results shall include the date and time, gas concentrations by volume, barometric pressure, site conditions, name of personnel conducting the monitoring, description of equipment and calibration results, description of monitoring procedure, and identification of any procedures or observations outside of normal conditions.

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6. If verification monitoring performed within one (1) hour of the initial exceedance shows concentrations below the limits in Special Conditions II, Section F, Item 2, the permittee shall place results in the operating record and send written notification of the exceedance and verification monitoring results to the DOH within seven (7) days.
7. If combustible gas concentrations exceed the limits in Special Conditions II, Section F, Item 2, and verification monitoring is not performed within one (1) hour of the initial exceedance or verification monitoring confirms the initial exceedance, the permittee shall perform the following.
 - a. Immediately take all necessary steps to ensure protection of human health.
 - b. Immediately notify the DOH of the exceedance.
 - c. Within three (3) days of detection, place in the operating record and submit to the DOH, the type of gas, gas levels detected and a description of the steps taken to protect human health.
 - d. Within sixty (60) days of detection, prepare and implement a remediation plan for the combustible gas releases, place a copy of the plan in the operating record, provide a copy of the plan to the DOH, and notify the DOH that the plan has been implemented.
 - e. Within thirty (30) days after the remediation plan has been completed, submit a report to the DOH documenting the actions taken, additional monitoring results, and plans to prevent future recurrences.
 - f. The DOH may modify the reporting and implementation schedule, as necessary to protect human health and the environment.

Section G. Groundwater and Leachate Management

1. The permittee shall implement the existing Groundwater and Leachate Monitoring Plan, dated March 2019 by CH2M HILL Engineers, Inc., as subsequently amended and approved by the DOH for Phases I, II, IV, V, VB-Ext, and III of the landfill. The DOH may periodically require revisions to the new revised plan.
2. The permittee shall submit a detailed CQA plan, complete with specifications and design drawings to the DOH thirty (30) days prior to the construction of the Phase III leachate sump riser pipe. At a minimum, the permittee shall install additional pipes to the riser at the Phase III sump as the surrounding waste fill increases in height as depicted in the 'Leachate Sump Detail' drawing on Figure 10 in the 2019 Phase III Design Report, as prepared in September 2019 by A-Mehr, Inc. Soil fill shall be placed and compacted around the extended riser pipe such that it does not damage the sump or any of the associated components.

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3. The permittee shall also submit a CQA report that is prepared by a professional engineer with the requirements listed in Special Conditions II.B.10 for the Phase III sump riser at least thirty (30) days following the construction of each riser extension. The CQA report shall contain, at a minimum:
 - a. Documentation and description of any temporary stormwater control measures implemented.
 - b. Documentation and as-built drawings for installation, and extension for the Phase III Leachate Sump riser pipe with a summary of materials used, the length of pipe used in the extension, compaction results, and surveyed elevation grades. The elevation grades shall be measured at (1) the top of the riser pipe after extension or modification, and (2) the surrounding soil fill that is placed around the riser until construction is complete and final grade has been achieved.
 - c. Documentation to show that the extended risers have been properly installed, and the condition of previously installed riser pipes and the sump to ensure no damage has occurred.
4. The permittee shall submit a detailed CQA plan, complete with specifications and design drawings to the DOH thirty (30) days prior to the construction of the Manhole 4 leachate sump riser pipe. The liner system shall be designed to prevent leachate movement around and through the manhole to beneath the landfill liner system and soil fill shall be placed and compacted around the extended riser pipe such that it does not damage the manhole or any of the associated components.
5. The permittee shall also submit a CQA report that is prepared by a professional engineer with the requirements listed in Special Conditions II.B.10 for the Manhole 4 sump riser at least thirty (30) days following the construction of each riser extension. The CQA report shall contain, at a minimum:
 - a. Documentation and description of any temporary stormwater control measures implemented.
 - b. Documentation and as-built drawings for installation, and extension for the Manhole 4 Leachate Sump riser pipe with a summary of materials used, the length of pipe used in the extension, compaction results, and surveyed elevation grades. The elevation grades shall be measured at (1) the top of the riser pipe after extension or modification, and (2) the surrounding soil fill that is placed around the riser until construction is complete and final grade has been achieved.
 - c. Documentation to show that the extended risers have been properly installed, and the condition of previously installed riser pipes and the sump to ensure no damage has occurred.

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6. The permittee shall maintain reasonable access to all groundwater monitoring stations and leachate manholes/sumps required by this permit. To assure that accurate measurements and representative samples are obtained, it shall be the responsibility of the permittee to periodically validate top of casing elevation and maintain the integrity of the monitoring stations and manholes and protect them from destruction or vandalism. If any of these stations/manholes are destroyed, the permittee shall notify the DOH immediately. The notification shall include pertinent information as to the cause, and what steps are being taken to replace the monitoring station/manhole and prevent the recurrence of such problems in the future. If the damage occurred at the leachate manhole/sump, an assessment as to the damage to the leachate collection and containment system shall also be performed and provided to the DOH. If repairs are required, the DOH shall have an opportunity to review and approve the proposed repairs. A Manhole/Well Completion Report shall be sent to the DOH within thirty (30) days of any new or repaired leachate manhole/sump or groundwater well construction.
7. Leachate Management. The permittee shall implement leachate management measures as provided in the Operations Plan including the following:
 - a. Stormwater that comes in contact with solid waste shall be treated as leachate. Leachate shall be managed to prevent any entry into the stormwater collection system and any contact with the public.
 - b. Leachate shall be removed from the landfill in a manner that maintains a maximum depth of 30 centimeters (12 inches) of leachate above any part of the liner outside the sump area in Phases IV-B, V-B Ext, and III. The IV-B sump services Phases IV-B and V. The Phase V-B Ext sump services Phase V-B Ext. The Phase III sump services Phase III. The compliance level for the leachate manhole for IV-A is 207 feet above MSL to avoid overflow and maintain an acceptable leachate level within the inner tank. The compliance level for leachate in the IV-B sump is 212 feet above MSL. The compliance level for leachate in the V-B Ext Sump is 228 feet above MSL. The compliance level for leachate in the III sump is 213 feet above MSL, or otherwise determined by the DOH based on as-built drawings of the liner and sump in Phase III. The compliance level for leachate in the Phase I and II manholes is one-foot of leachate in the manhole.
 - c. Leachate from IV-A manhole and IV-B sump shall be pumped to on-site storage tanks having a minimum total capacity of 30,000 gallons for temporary storage, currently consisting of eight 4,000-gallon tanks. Storage tanks shall be double lined or be located within a secondary containment structure with capacity to hold the contents of the largest storage tank. Leachate shall be removed from the storage tanks and managed in accordance with Special Conditions II.G.7.e.

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Leachate from Phase IV-A manhole shall be pumped via an automated pump that is triggered by a high level sensor. Leachate removal from the IV-B sump shall be through its own dedicated and automated pump and plumbing system. Leachate removal from the V-B Ext and Phases I and II will be directly into pumper trucks. The leachate collection sump in Phase III will be equipped with a vertical riser pipe system similar to that of Phase IV-B and Phase V-B Extension. The permittee shall follow the automated and/or manual fill pump procedures specified in the Operations Plan dated September 2019, or as otherwise approved by the DOH.

- d. The permittee shall inspect the leachate storage tanks servicing Phases IV-A, IV-B, V-A, and V-B daily to ensure that the tanks and plumbing system are operational, and repair if leaking. At a minimum, leachate shall be pumped and removed from the tank(s) when more than 10,000 gallons are present, and removed at a rate to ensure that no more than 10,000 gallons are present at the end of each operational day. Maintain daily operational records on the inspections and maintenance of the tanks, volume of leachate in the tank, the volume of leachate removed, and disposition of leachate. Any leachate pumped and removed from Phases I and II, Phase III, and from Phase V-B Ext shall also be recorded as to date, volume pumped and disposition of leachate.
- e. The permittee shall manage leachate removed from storage tanks or sumps in one or more of the following ways:
 - i. Not more than 2,000 gallons per day may be spread at the active disposal face when the active disposal face is located above the liner system of Phase IV-A. Leachate application shall be done by a water truck using methods that ensure leachate does not come in contact with site personnel or the public, and is only used to aid litter control and waste compaction. Leachate placement shall not promote infiltration.
 - ii. Leachate may be reintroduced to refuse in Phase IV-B or Phase V-A/B by spreading at the active face for litter control and aid to waste compaction, or outside the active face using vertical injection wells or infiltration trenches. Leachate shall not be recirculated and/or reintroduced in Phase V-B Ext or Phase III by any means aside from using as litter control as specified in Special Condition II.G.7.e.i, unless approved by the DOH. Methods used for leachate reintroduction shall be approved by the DOH and shall not allow leachate to be released from the site or exposed to the public or site personnel. The automated and manual control procedures for leachate recirculation described within the Leachate Management

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Section of the Operations Plan dated September 2017 shall be implemented, unless otherwise approved by the DOH.

- iii. Leachate may be transported to a public wastewater treatment facility. Permittee shall maintain a list of one or more qualified and properly licensed third-party contractors to remove and transport leachate from the temporary storage tanks or directly from the leachate sumps, to supplement any leachate transport capability of the permittee. The combined pumping and transport capability of the permittee and contractors shall be no less than 20,000 gallons per day.
 - f. The permittee shall maintain daily records of leachate monitoring and pumping and management activities, and shall report results in the Annual Operating Report as provided in Special Conditions II.I.2.e.
8. Leachate Monitoring. Leachate levels shall be monitored to ensure compliance with the leachate levels specified in Special Conditions II.G.7.b. The levels of leachate shall be measured and recorded as follows or as otherwise approved by the DOH:
- a. Closed landfill Phases I and II (according to the county, only Manhole 4 remains accessible): Minimum once per week.
 - b. Phase IV-A Leachate Manhole: Minimum once per week.
 - c. Phase IV-B Leachate Sump: Minimum once per week.
 - d. Phase V-B Ext Sump: Minimum once per operational day, and after rain events until the select waste layer has been completely installed; minimum two (2) times per week thereafter. Based on data, the DOH may revise the monitoring frequency.
 - e. Phase III Leachate Sump: Minimum daily.
 - f. All leachate collection points shall be monitored after storm events.
 - g. If an exceedance occurs, leachate level measurements shall be performed before and after leachate pumping on a daily basis until the level has remained within the allowable limit for a period of one week.
 - h. All monitoring activities and measured levels shall be recorded and maintained by the permittee.
9. Leachate Control and Collection System (LCCS) Maintenance. The Phase III LCCS shall be inspected and cleaned annually, or more frequently if necessary, to prevent clogging of the system.

Leachate and Groundwater Sampling

- 10. All groundwater and leachate analyses shall be submitted to the DOH within 45 days of sampling and analysis.

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11. A sample of leachate shall be collected from each collection point or sump on a minimum semi-annual basis for constituent analysis, or as otherwise approved by the DOH. Leachate samples shall be analyzed for parameters listed in 40 CFR Part 258, Appendix II and major leachate indicators including cations/anions per the Hawaii Landfill Groundwater Monitoring Guidance Document, unless an alternate parameter list has been approved by the DOH.
12. Groundwater sampling for all monitoring wells shall be performed on a semiannual basis unless otherwise approved or required by the DOH.
13. The permittee shall measure groundwater elevations from each monitoring well prior groundwater sampling and within a reasonable time period in order to estimate groundwater flow direction.
14. The permittee shall sample and analyze groundwater in accordance with the Groundwater and Leachate Monitoring Plan, dated March 2019 by CH2M Hill, approved subsequent revisions, and requirements of HAR 1-58.1-16 unless an alternate detection parameter program has been approved by the DOH. The permittee shall request and receive approval from the DOH before implementing any changes to the groundwater analyte list.
15. All sample collection, handling, management, and analysis shall be conducted in accordance with EPA SW-846, *Test Methods for Evaluating Solid Waste*, unless otherwise approved by DOH..
16. Each sample shall be properly collected, identified, contained, and preserved. The name and signature of the person who collected the sample shall be included in the records. A chain of custody shall be maintained from the time of sample collection through the final analysis and disposition.
17. Sample analysis shall be conducted by an independent third party with appropriate credentials and performed at the expense of the permittee.
18. The permittee shall provide statistical analysis and documentation in each groundwater and leachate report that adequately supports each assumption, position, and/or conclusion. This shall include, but is not limited to:
 - a. Step-by-step methodology for determining and/or updating baseline statistics.
 - b. Methodology and statistical data for evaluating monitoring data.
 - c. Methodology and historical analysis for determining trends or spikes.

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- d. Methodology and statistical data for describing changes or additions to the parameter monitoring list.
19. The permittee shall compare and provide a detailed description of the results obtained from both leachate and groundwater analyses to determine if there is a correlation that may indicate issues with leachate infiltrating into the groundwater, or if these results are independent.

Section H. Closure and Post-Closure

1. The permittee shall maintain and implement the Closure and Post-Closure Plan dated October 2008 and revised September 2019 for all phases unless otherwise approved by the DOH or required by HAR Chapter 11-58.1, and these permit conditions. Should there be discrepancies between these documents, the HAR and these conditions will take precedence.
2. At a minimum, the Closure and Post-Closure Plan and the Financial Assurance report shall be revised every five (5) years or earlier if facility plans are updated and/or changed. This is not withstanding the requirement to make adjustments for inflation on an annual basis. Revisions to the plan shall be prepared in accordance with HAR 11 58.1-17, "Closure and Post-Closure Care," and HAR 11-58.1-18, "Financial Assurance." The Closure Plan and all revisions shall be prepared and certified by a professional engineer, with at least five (5) years' experience in designing landfills, and registered in the state of Hawaii. The Closure Plan shall identify all potential impact areas (e.g., Special Conditions II.A.3).
3. Two years prior to the final receipt of waste at the facility, the permittee shall submit a final closure and post-closure plan, prepared by a professional engineer registered in the state of Hawaii. The final closure plan shall contain detailed engineering drawings, plans and specifications for construction of closure cap, surface water management improvements and other elements of final closure. The final post-closure plan shall include all maintenance and monitoring requirements based on HAR 11-58.1-17 and the design/construction of the closure. If an alternative final cover design will be used, a test plot demonstrating compliance with regulations may be required.
4. The permittee shall begin closure activities within 30 days after the date on which the facility receives the known final receipt of waste, unless the DOH grants an extension of time pursuant to HAR 11.58.1-17(a)(6). Closure activities shall be completed within 180 days following the beginning of closure unless the DOH grants an extension of time pursuant to HAR 11.58.1-17(a)(7).

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5. The permittee shall retain a professional engineer registered in the state of Hawaii for the supervision of the closure construction, and upon completion, the engineer shall submit a summary report to the DOH as to the complete conformity to the plans and specifications as approved. This summary report shall be submitted within 60 days after closure activities are completed. The summary report shall include a documented control program of the closure cap construction, and the quality assurance/quality control testing procedures, laboratory analyses, and engineer's certification of construction and conformity to the approved designs and to HAR Chapter 11-58.1-17.
6. Following completion of any closure construction, the permittee shall submit a copy of the notation on the deed to the landfill property in accordance with HAR 11-58.1-17; and implement post-closure care as provided in the approved post-closure plan in accordance with HAR 11-58.1-17. The DOH may periodically require revisions to the plan.
7. The permittee shall maintain and submit evidence that HAR 11-58.1-18, Financial Assurance, is satisfied on an annual basis.

Section I. Recordkeeping and Reporting

1. By July 31 of each year, the permittee shall submit an AOR, using June 30 of each year as the year-end to:

Solid and Hazardous Waste Branch
Environmental Management Division
Hawaii Department of Health
2827 Waimano Home Road #100
Honolulu, Hawaii 96782
Fax No. (808) 586-7509
2. The AOR shall include the following information:
 - a. Types of solid waste received (MSW, greenwaste, industrial/commercial, tires, wood, metals, containers of 20 gallons or larger capacity, asbestos, and other special wastes).
 - b. Quantities of solid wastes received by type with totals using an appropriate unit of measure.
 - c. The average daily disposal rate on a yearly basis.
 - d. Quantities of semi-solid liquid waste (tons) received and how it is handled or disposed.
 - e. Quantities of leachate (gallons) generated and how it was handled or disposed. If requested by the DOH, the permittee shall also provide water balance

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- estimates of leachate generation using the most recent EPA HELP model using climatic information collected in accordance with Special Conditions II.1.4. Annual rain data for the site on a daily basis shall be provided with this analysis.
- f. Volume of airspace filled during the reporting year, airspace filled during previous years, and airspace remaining in each phase in both cubic yards and years shall be provided. The information shall be provided in both numerical and graphical presentations.
 - g. An annual topographic survey and an isopach drawing (depicting the vertical difference between the permitted final grades and existing site elevations) of the site as prepared by a land surveyor registered in the state of Hawaii or an approved alternate method. Any exceedance of permit grades shall be identified and the DOH shall be notified by the use of a Non-Compliance Report. This survey shall clearly show the horizontal and vertical dimensions of the landfill area.
 - h. A Sequencing Plan, including a drawing, identifying the cell areas to be filled in the coming year including identification of the wet weather areas. The cell areas and wet weather area capacity shall be provided using an appropriate unit of measure.
 - i. Final fill areas, intermediate fill areas, and future unused fill areas shall be identified for the projected year.
 - j. A soil-balance report of the past year and coming projected year reported separately. The soil daily cover and intermediate cover including erosion replacement soil shall be reported separately. The source and type of soil shall be recorded separately for daily cover and intermediate cover. The soil-balance report for the past year shall be based on records of actual use in a daily, weekly and monthly basis. Any incomplete/non-application of daily cover shall be identified. Current soil use records shall be maintained at the facility for review.
 - k. After closure of any portion of the landfill, a summary of post-closure care and maintenance activities conducted at the closed landfill phases.
 - l. A copy of the detailed written estimates and documentation of financial assurance.
 - m. If the remaining disposal capacity for the facility is less than 10 years, as described in 2(f) of this section, the AOR shall include an updated timeline to acquire property, submit design and solid waste application, and start and complete construction of planned future expansions.
3. **Recordkeeping Requirements.** The permittee shall maintain records in accordance with HAR 11-58.1-15(j), Standard Conditions, Item 11, and the conditions of this permit. Records shall include the following list and any other recordkeeping requirements set forth in this permit:

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- a. Potential impact area identification within operations plan drawings (Special Conditions II, Section A, Item 3)
 - b. Load Check Data Sheet (Special Conditions II, Section C Item 2g)
 - c. Daily log of unacceptable waste (Special Conditions II, Section C Item 3c)
 - d. Radiation Monitoring Report (Special Conditions II, Section C Item 4)
 - e. Special Waste Acceptance Program records (Special Conditions II, Section C Item 5b and 5d)
 - f. Training records (Special Conditions II, Section D Item 6 and 7)
 - g. Daily Cover-Monitoring-Verification-Program (Special Conditions II, Section D Item 16)
 - h. Litter control (Special Conditions II, Section D Item 19e)
 - i. Asbestos disposal locations (Special Conditions II, Section D Item 20)
 - j. Annual surface water management plan (Special Conditions II, Section E Item 2)
 - k. Landfill gas monitoring records (Special Conditions II, Section F Item 1)
 - l. Leachate monitoring records (Special Conditions II, Section G Items 7d, 7f, and 8)
 - m. Financial assurance requirements (Special Conditions II, Section H Item 7)
 - n. Climatic information (Special Conditions II, Section I Item 4)
4. **Climatic Information.** Climate information shall be collected on a daily basis and shall include information on rainfall, solar radiation, evaporation, wind speed and direction, humidity, temperature, and other applicable meteorological data, as applicable, for use in modeling evapotranspiration and leachate generation with the HELP Model at the landfill and evaluating litter/odor control. The permittee shall also monitor and record daily wind speed and direction at the active workforce of the MSW landfill. The permittee shall minimize any weather equipment downtimes. In the event that the equipment is not operational, the permittee shall maintain a record of the affected date(s), reason, and actions taken. Data shall be provided to the DOH upon request.

SPECIAL CONDITIONS III: ENTRANCE FACILITY—WASTE TRANSFER AND RECYCLING OPERATIONS

1. The entrance facility may only accept, store, and transport household and commercial waste as defined in HAR §11-58.1-03, for disposal. Commercial loads are limited to vehicles that require manual unloading of waste. The entrance facility may accept and temporary store select household-generated recyclables and special waste for recycling, as identified under Special Conditions III, Items 6 and 7. Industrial waste, construction & demolition waste, and waste identified under Special Conditions III, Items 2 and 3 shall not be accepted at the entrance facility. The operations of the facility shall be in accordance with the Central Maui Landfill Entrance Facility Operations Plan revised May 2017, and approved subsequent submissions, unless otherwise specified in these permit conditions.

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2. No regulated hazardous waste as defined in state hazardous waste regulations, and PCB waste as defined in 40 CFR Part 761 shall be accepted at the entrance facility.
3. No infectious waste from commercial sources as defined by HAR Chapter 11-104.1, shall be accepted at the entrance facility.
4. The permittee shall implement a screening program at the entrance to ensure that only acceptable solid wastes enter the entrance facility. If the entrance facility inadvertently accepts unacceptable wastes or receives unacceptable wastes at the landfill disposal area of Central Maui Landfill, the permittee shall properly manage and dispose of the unacceptable materials, in accordance with applicable federal, state, and local laws and regulations prior to causing a nuisance, health or environmental threat.
5. Household and commercial waste for disposal from incoming vehicles shall be unloaded directly into the roll-off containers at the self-haul disposal bays. Commercial vehicles shall be screened in accordance with the screening program described in Special Conditions III, Item 4 before offloading. Roll-off containers shall be switched with empty ones when they are filled and shall be transported to the landfill. Household and commercial waste shall not be stored in roll-off containers for period exceeding 24 hours, except roll-off containers that are not full by the end of Saturday's operation may be stored for longer than 24 hours provided containers are appropriately covered (such as before an expected rain event), and runoff is collected and treated as leachate—to prevent vectors, odors, litter, and other nuisances.
6. Acceptance of household-generated source-separated waste materials for recycling shall be limited to fiber materials (including cardboard, newspaper, and paper bags), plastic bottles and bags, glass containers, metal (aluminum, bi-metal, and steel) containers, and scrap metals unless otherwise specified under Special Conditions III, Item 7. The accepted materials listed in this condition shall be free of fluids and/or contaminants that may cause harm to human health or the environment (i.e., paints, oils, solvents, etc.). Leaded glass such as lead crystals shall not be accepted. The accepted materials for recycling shall be stored in a safe and orderly manner in the designated drop-off containers indicated in the site plan in Figure 2A of the Entrance Operations Manual submitted May 16, 2017, and transported to DOH-permitted recycling facilities. Measures shall be taken to control windblown litter, insects, odors, and vectors.
7. The permittee may accept additional types of recyclable materials, if an updated site plan and operation plan addressing nuisance controls, storage method and location, site holding capacity, removal frequency is submitted and approved by the DOH prior to accepting additional recyclables. Upon approval of the updated site plan and operation

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plan, the plan shall become part of this permit. The DOH may impose additional conditions for this added activity.

8. Acceptance of special waste shall be limited to used motor oil, scrap tires, white goods, and batteries, from residential sources. The special waste shall be stored in a safe and orderly manner at the designated areas/containers indicated in the site plan in Figure 2A of the Entrance Operations Manual submitted May 16, 2017, and transported to DOH-permitted/approved facilities before creating a nuisance, health, safety, or environmental hazard. Measures shall be taken to prevent and respond to fires, and to control nuisance and environmental impact (spills, leaks, and emissions).
 - a. Used motor oil collection, storage, transport, and recordkeeping should be managed in accordance with HAR §11-279.1, *Standards for The Management of Used Oil*. In accordance with the Entrance Facility Operations Plan, revised May 2017, used motor oil will be stored in a locked shipping container.
 - b. The permittee shall comply with the tire disposal requirements specified under HRS 342 I for Used Motor Vehicle Tire Recovery. Tire storage must be free of all contaminants such as oil, grease, gasoline, diesel, etc. that could create fire hazards. Tires must be stored in a manner so that they minimize the accumulation of water and creation of a vector problem. Tires shall only be transported to a DOH-permitted recycling or tire processing facility, or out of state recycling facility.
 - c. White goods that enter the facility shall be unloaded properly, stored in an upright position at the designated area, and transported to a permitted facility for refrigerant removal and processing. Refrigerant containing items shall not be pushed into a scrap metal roll-off container unless refrigerant is removed and verified by an EPA certified personnel. Measures shall be taken to prevent the release of CFCs from refrigerant containing items into the atmosphere during storage and transport. Federal regulations prohibit venting of CFCs into the atmosphere.
 - d. Batteries shall be placed in a locked, covered, leak-proof container. The permittee shall comply with the disposal, collection, and recycling requirements specified under HRS 342I Lead Acid Battery Recycling. Releases that occur shall be removed immediately and disposed of accordingly. Cracked or leaking batteries must be containerized and managed separately, in accordance with applicable regulations. Battery storage shall be limited to the floor in the container and shall be removed from the site, at least on a monthly basis.

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9. If special waste requires processing at the site, such as refrigerant removal and mercury switch and/or mercury thermostat removal from the white goods, an operations plan for special waste processing shall be submitted for DOH review and approval, at least 60 days prior to processing. Upon approval of the revised plan, the plan shall become part of this permit. Depending on the nature of the processing, a permit modification may be required.
10. The maximum storage capacity for collected household waste, recyclable materials, and special waste is as follows:
 - a. MSW for disposal: Five 20-cubic yard roll-offs (in use) in the self-haul disposal bays only
 - b. Recyclables: Four 20-cubic yard roll-offs or compactors below grade
Five 20-cubic yard roll-offs at grade
 - c. Special Waste:
 - i. White goods: 25 pieces in the designated area
 - ii. Used oil: Eight 55-gallon drums in the designated area
 - iii. Used tires: One 20-cubic yard roll-off container below grade
 - iv. Batteries: One 20-cubic yard container
11. An all-weather access road shall be maintained into and within the entrance facility.
12. The facility shall be supervised, secured, and have a permanent sign posted at the facility entrance identifying the facility, the name and address of the operator, a contact in case of an emergency, the hours and days of operation, and the waste accepted or not accepted.
13. Scavenging at the facility by the general public is prohibited.
14. Adequate measures shall be prepared to prevent standing water, and to control stormwater run-on and run-off.
15. Adequate measures shall be implemented to collect generated leachate. Any collected leachate shall be properly managed and disposed of prior to creating a nuisance, health or environmental threat. Records shall be maintained as to the quantity and management of all collected leachates.
16. Suitable means shall be provided to prevent and control fires and manage hazardous waste spills/releases, including the implementation of Section 14 of the Operations Plan for Central Maui Landfill dated September 2019. All incidents shall be reported to the DOH and records of incidents shall be maintained for five (5) years.

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17. Suitable means shall be provided to prevent solid waste from scattering; control litter, odors, insects, and vectors; and minimize nuisance conditions.
18. All solid waste passing through this facility shall be collected, treated, recycled, or disposed of at a permitted solid waste management disposal and/or recycling facility.
19. Operational records shall be maintained and shall include a daily log of type and volume of solid waste received, waste screening, waste transported, and the disposal/recycling destination of the solid waste.
20. An annual report shall be prepared and submitted to the DOH reviewing the past year's operations and detailing the total tonnage of each type of material collected at the entrance facility, processed, recycled, transferred, and disposed from the previous fiscal year (July 1 to June 30) by July 31 of each year using the address provided in Special Conditions II, Section I, Item 1. The report shall also include a summary of incidents outside of normal operations.

The permittee may choose to submit a separate annual report for the entrance facility, or combine with the annual report requirements listed in Special Condition II, Section I.

21. The annual report for the entrance facility shall include the following information:
 - a. Quantities of solid waste received by type including destination for disposal.
 - b. Quantities (in gallons) of liquid waste (leachate) generated and method of management disposal.
 - c. Quantities of materials recycled from the waste stream by type and destination.

An estimate in gross values of tons, cubic yards, or quantity count, as appropriate, is sufficient.

22. The permittee shall comply with the recordkeeping requirements relating to used motor vehicle tires as provided under HRS Chapter 342 I. The statute requires facilities that accept used tires to submit a summary of the following information by July 31 of each year:
 - a. date of receipt of used tires;
 - b. quantity of used tires received; and
 - c. record of shipment indicating:
 - i. ultimate destination of the used tires;
 - ii. identification of the transporter;
 - iii. date of shipment; and
 - iv. quantity of tires shipped.

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23. If the permittee terminates the facility operation (or faces lease termination or eviction), the permittee shall perform necessary closure activities including, but not limited to, the removal of all remaining solid waste and performing appropriate site assessments and remedial activities. The permittee shall notify the DOH in writing at least within ninety (90) calendar days prior to the facility's closure [HAR §11-58. 1-04(e)(3)]. The written notification shall include an updated closure plan, which should accomplish the following objectives:
- a. Provide an assessment of the site's present and future threat to public health and the environment due to contaminants possibly left on-site from the facility's operation.
 - b. Provide a plan of action to minimize or mitigate any threats to public health and the environment due to contaminants possibly left on-site by the facility's operation.
 - c. Provide a schedule to implement the plan of action.

Upon DOH approval of the closure plan, the permittee shall implement the plan in accordance with the approved implementation schedule.