A BILL FOR AN ACT

RELATING TO WASTEWATER SYSTEMS.

BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF HAWAII:

1	SECTION 1. The legislature finds that cesspools are
2	contaminating the State's groundwater, streams, drinking water,
3	and coastal ecosystems. Maintaining the cleanliness of the
4	State's waters is a matter of statewide concern that falls under
5	the legislature's obligation to enact laws pursuant to
6	article XI, section 7, of the Hawaii State Constitution. To
7	address the State's cesspool pollution, Act 125, Session Laws of
8	Hawaii 2017, required all cesspools to be upgraded or converted
9	to a septic system or aerobic treatment unit system or connected
10	to a sewerage system before January 1, 2050, with certain
11	exemptions. Act 125 also directed the department of health to
12	investigate the number, scope, and location of cesspools that
13	required upgrade, conversion, or connection based on their
14	impact on public health. Additionally, Act 132, Session Laws of
15	Hawaii 2018, established the cesspool conversion working group
16	to develop a long-range, comprehensive plan for the conversion
17	of cesspools statewide by 2050 and commissioned a statewide

- 1 study of sewage contamination in nearshore marine areas to
- 2 further supplement studies and reports conducted by the
- 3 department of health on cesspools. The cesspool conversion
- 4 working group's 2021 Hawaii cesspool hazard assessment and
- 5 prioritization tool report identified three prioritization
- $oldsymbol{6}$ categories: priority levels 1, 2, and 3. Priority level 1
- 7 cesspools have the greatest potential to impact human health and
- 8 are directly adjacent to sensitive natural resources; priority
- 9 level 2 cesspools pose a significant hazard to human health and
- 10 may be close to sensitive natural resources; and priority level
- 11 3 cesspools have an impact on human health but may be further
- 12 away from sensitive natural resources.
- 13 The 2021 Hawaii cesspool hazard assessment and
- 14 prioritization tool report also noted that the geographic
- 15 coverage of their evaluation only extended across the four main
- 16 Hawaiian islands. It further noted that even though the islands
- 17 of Molokai, Lanai, and Niihau were also impacted by cesspools,
- 18 these islands were not included in several key datasets
- 19 necessary for its analysis. Thus, the authors of the 2021
- 20 Hawai'i Cesspool Hazard Assessment and Prioritization Tool, 2021

- 1 Report and Technical Appendices, recommended that a ranking
- 2 system for these islands also be established.
- 3 The legislature further finds that the following
- 4 communities were labeled as priority level 1 areas by the 2021
- 5 Hawaii cesspool hazard assessment and prioritization tool
- 6 report: Haleiwa, Waimanalo Beach-Homesteads, Hauula-Kaaawa,
- 7 Makua Valley, Judd Hillside-Lowery Avenue, Waimea-Kahuku, Laie,
- 8 Kawailoa, Campbell High School, Kaena Point, Kalaheo Avenue,
- 9 Waianae Kai, and Nanakuli on Oahu; Halama, Kamaole, Kahoma,
- 10 Keawakapu, Kapalua, Launiupoko, and Spreckelsville on Maui;
- 11 Holualoa, Kailua, and Kawaihae-Waikoloa on Hawaii island; and
- 12 Haena-Hanalei, Kekaha-Waimea, and Wailua Homesteads on Kauai.
- 13 In these areas where homes are not connected to wastewater
- 14 systems or are too remote to be connected to existing
- 15 infrastructure, new wastewater technologies and solutions are
- 16 necessary to transition away from environmentally hazardous
- 17 cesspools.
- 18 The legislature additionally finds that, according to
- 19 recent shoreline erosion management plans, south Molokai has the
- 20 highest concentration of Hawaiian homestead residential lots
- 21 located directly on the coast, having approximately fifty lots

- 1 within two and a half miles of noncontiquous shoreline. For
- 2 Molokai as a whole, the Molokai Health Center reports that forty
- 3 per cent of the population relies on subsistence farming,
- 4 hunting, and fishing, which means that having a clean and
- 5 healthy reef and nearshore environment is crucial for the health
- 6 of the community, especially the Native Hawaiian community. The
- 7 coastal plain of south Molokai is underlain by underground
- 8 rivers of fresh water flowing mauka to makai that affect the
- 9 fringing reef, an important food source for Native Hawaiians
- 10 residing on Molokai. A United States Geological Survey report
- 11 concluded that further inquiry into the range of nutrient
- 12 sources to groundwater and nutrient concentrations reaching the
- 13 coast in groundwater discharge will aid in future planning and
- 14 resource management. Molokai coastal homesteaders will be
- 15 financially challenged to convert cesspools to more modern
- 16 individual wastewater systems, as the median annual household
- 17 income averaged over the three department of Hawaiian home lands
- 18 coastal communities was \$42,396 in 2019, according to the
- 19 American Community Survey of 2019.
- 20 The legislature additionally finds that new wastewater
- 21 management solutions could greatly improve public health.

- 1 Technologies that are reaching a commercial scale for the first
- 2 time include solutions for individual homes, as well as multi-
- 3 unit dwellings, apartment buildings, and entire communities.
- 4 Large wastewater management systems can remove sewage from
- 5 multi-unit dwellings and apartment buildings. At the municipal
- 6 scale, these technologies can effectively treat sewage from
- 7 entire communities for a small fraction of the cost of existing
- 8 technology now employed in Hawaii. Self-contained, self-
- 9 powered, and self-cleaning toilets can be used in homes that do
- 10 not have the capacity to connect to the existing sewer
- 11 infrastructure. For example, the Puu Opae Kuleana Homestead
- 12 Settlement Plan, which will offer two hundred fifty homestead
- 13 lots in Waimea, Kauai, does not include a centralized wastewater
- 14 service or public water system, and the nearest wastewater
- 15 treatment plant is more than four miles away and thus could
- 16 benefit from new wastewater solutions. The Anahola Kuleana
- 17 Homestead Settlement Plan, which will offer one hundred fifteen
- 18 homestead lots in Kawaihau, Kauai, will similarly benefit from
- 19 new wastewater solutions.
- The purpose of this Act is to:

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1	(1)	Repeal the mandatory upgrade, conversion, or
2		connection of cesspools in the State by 2050;
3	(2)	Establish and appropriate funds to implement a three-
4		year new wastewater system and individual wastewater
5		system technology demonstration and implementation
6		pilot program within the university of Hawaii water
7		resources research center to review, examine, and
8		demonstrate new wastewater technology systems;
9		implement those technologies in wastewater system
10		demonstration projects; and establish prioritization
11		categories similar to those established in the Hawaii
12		cesspool hazard assessment and prioritization tool for
13		the islands of Molokai, Lanai, and Niihau; and
14	(3)	Appropriate funds for positions within the department
15		of health's wastewater branch.
16	SECT	ION 2. Section 342D-72, Hawaii Revised Statutes, is
17	repealed.	
18	[" §34	12D-72 Cesspools; mandatory upgrade, conversion, or
19	connection	1. (a) Before January 1, 2050, every cesspool in the
20	State, exc	cluding cesspools granted exemptions by the director of
21	health pu	esuant to subsection (b), shall be:

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         (1) Upgraded or converted to a director-approved
 2
              wastewater system; or
 3
         (2) Connected to a sewerage system.
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         (b) The director of health may grant exemptions from the
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    requirements of subsection (a) to property owners of cesspools
    that apply for an exemption and present documentation showing a
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    legitimate reason that makes it infeasible to upgrade, convert,
 7
    or connect the cesspools. For the purposes of this subsection,
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    a legitimate reason shall include but not be limited to:
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         (1) Small lot size;
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         (2) Steep topography;
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         (3) Poor soils; or
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         (4) Accessibility issues.
         (c) As used in this section, "cesspool" means an
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    individual wastewater system consisting of an excavation in the
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    ground whose depth is greater than its widest surface dimension,
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    that receives untreated wastewater, and retains or is designed
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    to retain the organic matter and solids discharged into it, but
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    permits the liquid to seep through its bottom or sides to gain
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    access to the underground geographic formation."]
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1	SECTION 3. (a) There is established a three-year new
2	wastewater system and individual wastewater system technology
3	demonstration and implementation pilot program within the
4	university of Hawaii water resources research center.
5	(b) The university of Hawaii water resources research
6	center, in coordination with the university of Hawaii sea grant
7	college program and in consultation with the department of
8	health, department of Hawaiian home lands, university of Hawaii
9	college of engineering, and all appropriate county agencies,
10	shall:
11	(1) Examine and demonstrate new wastewater and cesspool
12	technology systems, ranging from individual toilets to
13	significantly larger multi-unit systems and options
14	for community-scale solutions as appropriate, and
15	review and evaluate the affordability, feasibility,
16	and efficiency of the treatment technologies;
17	(2) Administer no less than four cesspool system
18	demonstration projects implementing new toilet and
19	sewage treatment technologies; provided that each
20	project shall include a cesspool in an area designated
21	as priority level 1 by the 2021 Hawaii Cesspool Hazard

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1		Assessment and Prioritization Tool, 2021 Report and
2		Technical Appendices; provided further that there
3		shall be no less than one project in each county;
4		provided further that there shall be no less than one
5		project on the island of Molokai;
6	(3)	Document, validate, and summarize the various tests,
7		research, and outcomes of each cesspool system
8		demonstration project; and
9	(4)	Establish a ranking system similar to the
10		prioritization categories established in the 2021
11		Hawaii Cesspool Hazard Assessment and Prioritization
12		Tool, 2021 Report and Technical Appendices, for the
13		islands of Molokai, Lanai, and Niihau.
14	(c)	The university of Hawaii water resources research
15	center sh	all submit an annual interim report to the legislature
16	no later	than twenty days prior to the convening of each regular
17	session fo	or the duration of the pilot program and a final report
18	to the leg	gislature no later than twenty days prior to the
19	convening	of the regular session of 2028. The reports shall
20	include:	

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1	(1)	Information on the new wastewater and cesspool
2		technology systems reviewed and implemented;
3	(2)	The number of cesspools converted pursuant to the
4		pilot program;
5	(3)	The costs incurred to convert each cesspool;
6	(4)	Recommendations on how to improve the efficiency of
7		the pilot program;
8	(5)	Whether the pilot program should be made permanent;
9		and
10	(6)	Any other recommendations that the university of
11		Hawaii water resources research center deems
12		appropriate.
13	(d)	The pilot program shall cease to exist on June 30,
14	2027.	
15	SECT	ION 4. In accordance with section 9 of article VII, of
16	the Const	itution of the State of Hawaii and sections 37-91 and
17	37-93, Hav	waii Revised Statutes, the legislature has determined
18	that the a	appropriations contained in this Act will cause the
19	state gene	eral fund expenditure ceiling for fiscal year 2024-2025
20	to be exce	eeded by \$, or per cent. The reasons
21	for exceed	ding the general fund expenditure ceiling are that the

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2 public interest and to meet the needs provided for by this Act. 3 SECTION 5. There is appropriated out of the general 4 revenues of the State of Hawaii the sum of \$ or so much 5 thereof as may be necessary for fiscal year 2024-2025 to 6 implement the new wastewater system and individual wastewater 7 system technology demonstration and implementation pilot program 8 established pursuant to this Act. 9 The sum appropriated shall be expended by the university of 10 Hawaii for the purposes of this Act. 11 SECTION 6. There is appropriated out of the general 12 revenues of the State of Hawaii the sum of: 13 (1) \$ or so much thereof as may be necessary for 14 fiscal year 2024-2025 to fund full-time 15 equivalent (FTE) engineer V (SR-26) position 16 within the department of health's wastewater branch; 17 and (2) \$ 18 or so much thereof as may be necessary for 19 fiscal year 2024-2025 to establish full-time 20 equivalent (FTE) engineer IV (SR-24) position 21 within the department of health's wastewater branch,

appropriations made in this Act are necessary to serve the

- 1 to support the approval of individual wastewater systems
- 2 applications and the new wastewater system and individual
- 3 wastewater system technology demonstration and implementation
- 4 pilot program established pursuant to this Act.
- 5 The sum appropriated shall be expended by the department of
- 6 health for the purposes of this Act.
- 7 SECTION 7. Statutory material to be repealed is bracketed
- 8 and stricken.
- 9 SECTION 8. This Act shall take effect on July 1, 3000.

Report Title:

UH; Water Resources Research Center; Cesspool Upgrade, Conversion, Connection Mandate Repeal; New Wastewater System and Individual Wastewater System Technology Demonstration and Implementation Pilot Project; Reports; Positions; Appropriations; Expenditure Ceiling

Description:

Repeals the mandatory upgrade, conversion, or connection of cesspools in the State by 2050. Establishes a 3-year new wastewater system and individual wastewater system technology demonstration and implementation pilot program within the University of Hawaii Water Resources Research Center to examine and demonstrate new wastewater and cesspool technology systems; implement those technologies in demonstration projects in areas across the State that are identified as priority level 1 in the 2021 Hawaii Cesspool Hazard Assessment and Prioritization Tool, 2021 Report and Technical Appendices; and establish similar prioritization categories for the islands of Molokai, Lanai, and Niihau. Requires the University of Hawaii Water Resource Research Center to submit annual interim reports and a final report to the Legislature. Establishes positions. Makes appropriations. Effective 7/1/3000. (HD2)

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