

Department of Health

Rules Amending Title 11
Hawaii Administrative Rules

(insert adoption date)

1. Chapter 54 of Title 11, Hawaii Administrative Rules, entitled "Water Quality Standards" is amended and compiled to read as follows:

"HAWAII ADMINISTRATIVE RULES

TITLE 11

DEPARTMENT OF HEALTH

CHAPTER 54

WATER QUALITY STANDARDS

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§11-54-1

- §11-54-9.1.01 Water quality certification; contents of certification
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§11-54-1 Definitions. As used in this chapter:

"Ambient conditions" means the water quality conditions that would occur in the receiving waters if these waters were not influenced by the proposed new human activity.

"Amphidromous" means aquatic life that migrate to and from the sea, but not specifically for reproductive purposes. Amphidromous aquatic life in Hawaiian streams are confined to fresh waters as adults, but their larval stages are partially or entirely spent in the ocean as part of the zooplankton.

"Anchialine pools" means coastal bodies of standing waters that have no surface connections to the ocean but display both tidal fluctuations and salinity ranges characteristic of fresh and brackish waters, indicating the presence of subsurface connections to the watertable and ocean. Anchialine pools are located in porous substrata (recent lava or limestone) and often contain a distinctive assemblage of native aquatic life. Deeper anchialine pools may display salinity stratification, and some shallow pools may contain standing water only on the highest tides.

"Aquatic life" means "any type or species of mammal, fish, amphibian, reptile, mollusk, crustacean, arthropod, invertebrate, coral, or other animal that inhabits the freshwater or marine environment and includes any part, product, egg, or offspring thereof; or freshwater or marine plants, including, seeds, roots, products, and other parts thereof" (section 187A-1, HRS).

"Best degree of treatment or control" means that treatment or control which is required by applicable statutes and regulations of the State of Hawai'i and the Federal Water Pollution Control Act, as amended, (33 U.S.C. §1251, et seq.) or which is otherwise specified by the director considering technology or management practices currently available in relation to the public interest.

"Best management practices" or "BMPs" means schedules of activities, prohibitions or designations of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of State waters. Best management practices also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage. BMPs include methods, measures or practices selected by the department to meet nonpoint source pollution control needs. BMPs also include but are not limited to structural and nonstructural controls. BMPs can be

applied before, during, and after pollution-producing activities to reduce or eliminate the introduction of pollutants into receiving State waters.

"Brackish waters" means waters with dissolved inorganic ion concentrations (salinity) greater than 0.5 parts per thousand, but less than thirty-two parts per thousand.

"Coastal waters" means "all waters surrounding the islands of the State from the coast of any island to a point three miles seaward from the coast, and, in the case of streams, rivers, and drainage ditches, to a point three miles seaward from their point of discharge into the sea and includes those brackish waters, fresh waters and salt waters that are subject to the ebb and flow of the tide" (section 342D-1, HRS).

"Coastal wetlands" means natural or man-made ponds and marshes having variable salinity, basin limits, and permanence. These wetlands usually adjoin the coastline and may be subject to tidal, seasonal, or perennial flooding. Coastal wetlands are generally maintained by surface and subterranean sources of fresh and salt water. Many natural coastal wetlands have been modified significantly by man and are characterized by introduced aquatic life. Coastal wetlands include, but are not limited to, salt marshes, open ponds, mudflats, man-made or natural waterbird refuges, isolated seasonal lakes and mangrove flats.

"Department" means department of health, State of Hawai'i.

"Developed estuaries" means volumes of brackish coastal waters in well-defined basins constructed by man or otherwise highly modified from their natural state. Developed estuaries include, but are not limited to, dredged and revetted stream termini.

"Director" means the director of health, State of Hawai'i, or the director's duly authorized agent.

"Discharge" means the "discharge of a water pollutant".

"Discharge of a water pollutant" means any addition of any water pollutant or combination of water pollutants to State waters.

"Ditches and flumes" means fresh waters flowing continuously in artificial channels. They are used mainly for the purpose of irrigation and usually receive water from stream diversions. Ditches and flumes may be inflowing (carry water to reservoirs or user areas) or outflowing (drain water from reservoirs or user areas).

"Drainage basin" or "watershed" means the region or area drained by a stream or river system.

"Drainage ditch" means that facility used to carry storm runoff only, not sanitary sewage.

"Elevated wetlands" means natural freshwater wetlands located above 100 m (330 ft) elevation. They are generally found in undisturbed areas, mainly in remote uplands and forest reserves with high rainfall. Elevated wetlands include upland bogs, marshes, swamps, and associated ponds and pools.

"Estuaries" means characteristically brackish coastal waters in well-defined basins with a continuous or seasonal surface connection to the ocean that allows entry of marine fauna. Estuaries may be either natural or developed.

"Existing uses" means those uses actually attained in the water body on or after November 28, 1975 whether or not they are included in the water quality standards.

"Flowing springs and seeps" means perennial, relatively constant fresh water flows not in distinct channels, in which the water emanates from elevated aquifers as wet films or trickles over rock surfaces. They are found typically as natural occurrences along rock faces or banks of deeply incised streams, and artificially along road cuts.

"Flowing waters" means fresh waters flowing unidirectionally down altitudinal gradients. These waters may or may not be confined in distinct channels. Flowing waters include streams, flowing springs and seeps and ditches and flumes.

"Fresh waters" means all waters with a dissolved inorganic ion concentration of less than 0.5 parts per thousand.

"Hydric soil" means soil that, in its undrained condition, is saturated, flooded, or ponded and develops conditions that favor the growth and regeneration of hydrophytic vegetation.

"Hydrophytic vegetation" or "hydrophytes" means plants adapted to growing in seasonally or permanently flooded conditions.

"Intermittent streams" means fresh waters flowing in definite natural channels only during part of the year or season. Intermittent streams include many tributaries of perennial streams.

"Introduced aquatic life" means those species of aquatic organisms that are not native to a given area or water body and whose populations were established (deliberately or accidentally) by human activity. "Introduced" organisms are also referred to as "alien" or "exotic".

"Low wetlands" means freshwater wetlands located below 100 m (330 ft) elevation that may be natural or artificial in origin and are usually found near coasts or in valley termini. Low wetlands are maintained by either stream, well, or ditch influent water, or by exposure of the natural water table. Low wetlands include, but are not limited to, natural lowland marshes, riparian wetlands, littoral zones of standing waters (including lakes, reservoirs, ponds and fishponds) and agricultural wetlands such as taro lo'i.

"Native aquatic life" means those species or higher taxa of aquatic organisms that occur naturally in a given area or water body and whose populations were not established as a result of human activity.

"Natural estuaries" means volumes of brackish coastal waters in well-defined basins of natural origin, found mainly at the mouths of streams or rivers. Natural estuaries can be either stream-fed (drowned stream mouths fed by perennial stream runoff) or spring-fed (nearshore basins with subterranean

fresh water sources). Stream-fed estuaries serve as important migratory pathways for larval and juvenile amphidromous stream fauna.

"Natural freshwater lakes" means standing water that is always fresh, in well-defined natural basins, with a surface area usually greater than 0.1 ha (0.25 acres), and in which rooted emergent hydrophytes, if present, occupy no more than thirty per cent of the surface area. Natural freshwater lakes in Hawai'i occur at high, intermediate, and low elevations. Lowland freshwater lakes characteristically lack a natural oceanic connection (surface or subsurface) of a magnitude sufficient to cause demonstrable tidal fluctuations.

"Nonpoint source pollution" has the meaning defined in section 342E-1, HRS.

"Perennial streams" means fresh waters flowing year-round in all or part of natural channels, portions of which may be modified by humans. Flow in perennial streams may vary seasonally. Perennial streams may be subdivided into longitudinal zones, based on elevation and gradient:

- (1) Headwater zone (elevation above 800 m (2600 ft) or gradient above 30 per cent or both);
- (2) Mid-zone (elevation between 50-800 m (165-2600 ft), or gradient between 5 and 30 per cent or both); and
- (3) Terminal zone (elevation below 50 m (165 ft) or gradient below 5 per cent or both).

Perennial streams may be either continuous or interrupted. Continuous perennial streams discharge continuously to the ocean in their natural state, and contain water in the entire length of the stream channel year-round. Interrupted perennial streams usually flow perennially in their upper reaches but only seasonally in parts of their middle or lower reaches, due to either downward seepage of surface flow (naturally interrupted) or to man-made water diversions (artificially interrupted).

"Person" has the same meaning as defined in section 342D-1, HRS.

"Point source" has the same meaning as defined in section 11-55-01.

"Pollution" means "water pollution" as defined in section 342D-1, HRS.

"Reservoirs" means standing water that is always fresh, in well-defined artificially created impoundments.

"Saline or salt waters" means waters with dissolved inorganic ion concentrations greater than thirty-two parts per thousand.

"Saline lakes" means standing waters of salinities ranging from brackish to hypersaline, located in well-defined natural basins, and lacking a natural surface connection to the ocean. Saline lakes may be present as high-island shoreline or near-shoreline features (e.g. Lake Nomilu, Kauai; Salt Lake, Oahu; Lake Kauhako, Molokai) or as low-island closed lagoons (Lake Laysan, Laysan). They are usually, but not always, fed by seawater seepage and may be diluted by rainwater, overland runoff, or ground water, or concentrated by evaporation.

"Schedule of compliance" means a schedule of remedial measures including an enforceable sequence of actions or operations leading to compliance with an effluent limitation, other limitation, prohibition, or standard.

"Springs and seeps" means small, perennial, relatively constant freshwater flow not in distinct channels, such as wet films or trickles over rock surfaces, in which the water emanates from elevated aquifers. Springs and seeps may be either stream associated, occurring in deeply cut valleys and contributing to stream flow; or coastal, occurring on coastal cliffs and usually flowing into the ocean.

"Standing waters" refers to waters of variable size, depth, and salinity, that have little or no flow and that are usually contained in well-defined basins. Standing water bodies include natural freshwater lakes, reservoirs or impoundments, saline lakes, and anchialine pools.

"State waters", as defined by section 342D-1, HRS, means all waters, fresh, brackish, or salt around and within the State, including, but not limited to, coastal waters, streams, rivers, drainage ditches, ponds, reservoirs, canals, ground waters, and lakes; provided that drainage ditches, ponds, and reservoirs required as part of a water pollution control system are excluded. This chapter applies to all [state]State waters, including wetlands, subject to the following exceptions:

- (1) This chapter does not apply to groundwater[.], except the director may in the director's discretion take appropriate actions when the director believes that the discharge of pollutants to the ground or groundwater has adversely affected, is adversely affecting, or will adversely affect the quality of any State water other than groundwater.
- (2) This chapter does not apply to drainage ditches, flumes, ponds and reservoirs that are required as part of a water pollution control system.
- (3) This chapter does not apply to drainage ditches, flumes, ponds, and reservoirs that are used solely for irrigation and do not overflow into or otherwise adversely affect the quality of any other [state]State waters, unless such ditches, flumes, ponds, and reservoirs are waters of the United States as defined in 40 C.F.R. section 122.2. The State of Hawai'i has those boundaries stated in the Hawai'i Constitution, art. XV, §1.

"Streams" means seasonal or continuous water flowing unidirectionally down altitudinal gradients in all or part of natural or modified channels as a result of either surface water runoff or ground water influx, or both. Streams may be either perennial or intermittent and include all natural or modified watercourses.

"Stream channel" means a natural or modified watercourse with a definite bed and banks which periodically or continuously contains flowing water.

"Stream system" means the aggregate of water features comprising or associated with a stream, including the stream itself and its tributaries, headwaters, ponds, wetlands, and estuary. A stream system is geographically delimited by the boundaries of its drainage basin or watershed.

"Surface water" means both contained surface water (that is, water upon the surface of the earth in well-defined basins created naturally or artificially including, but not limited to, streams, other watercourses, lakes, and reservoirs) and diffused surface water (that is, water occurring upon the surface of the ground other than in contained basins). Water from natural springs and seeps is surface water when it exits from the spring onto the earth's surface.

"Water pollution control system" means a facility that collects, handles, stores, treats, or disposes of domestic wastewater, and/or industrial wastewater, to prevent water pollution.

"Wetlands" means land that is transitional between terrestrial and aquatic ecosystems where the water table is usually at or near the surface or the land is covered by shallow water. A wetland shall have one or more of the following attributes:

- (1) At least periodically the land supports predominantly hydrophytic vegetation;
- (2) The substratum is predominantly undrained hydric soil; or
- (3) The substratum is nonsoil (gravel or rocks) and is at least periodically saturated with water or covered by shallow water.

Wetlands may be fresh, brackish, or saline and generally include swamps, marshes, bogs, and associated ponds and pools, mud flats, isolated seasonal ponds, littoral zones of standing water bodies, and alluvial floodplains. For the purpose of applying for water quality certifications under Clean

Water Act Section 401, and for National Pollutant Discharge Elimination System (NPDES) permit purposes, the identification and delineation of wetland boundaries shall be done following the procedures described in the U.S. Army Corps of Engineers' Wetlands Delineation Manual (USACE 1987). [Eff 11/12/82; am and comp 10/6/84; am and comp 04/14/88; am and comp 01/18/90; am and comp 10/29/92, am and comp 04/17/00; am and comp 10/02/04; comp 06/15/09; comp 10/21/12; am and comp 12/6/13; am and comp] (Auth: HRS §187A-1, §§342D-1, 342D-4, 342D-5, Ch. 342E) (Imp: HRS §§342D-4, 342D-5, Ch. 342E; 40 C.F.R. §§ 122.2, 130.2, 131.3, 131.12; 22 U.S.C. §1362(14))

§11-54-1.1 General policy of water quality antidegradation. (a) Existing uses and the level of water quality necessary to protect the existing uses shall be maintained and protected.

(b) Where the quality of the waters exceed levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water, that quality shall be maintained and protected unless the director finds, after full satisfaction of the intergovernmental coordination and public participation provisions of the state's continuing planning process, that allowing lower water quality is necessary to accommodate important economic or social development in the area in which the waters are located. In allowing such degradation or lower water quality, the director shall assure water quality adequate to protect existing uses fully. Further, the director shall assure that there shall be achieved the highest statutory and regulatory requirements for all new and existing point sources and all cost-effective and reasonable best management practices for nonpoint source control.

(c) Where existing high quality waters constitute an outstanding resource, such as waters of

national and state parks and wildlife refuges and waters of exceptional recreational or ecological significance, that water quality shall be maintained and protected.

(d) In those areas where potential water quality impairment associated with a thermal discharge is involved, the antidegradation policy and implementing method shall be consistent with section 316 of the Clean Water Act. [Eff 11/12/82; am and comp 10/6/84; am and comp 04/14/88; am and comp 01/18/90; am and comp 10/29/92, am and comp 04/17/00; am and comp 10/2/04; comp 06/15/09; comp 10/21/12; am and comp 12/6/13; comp] (Auth: HRS §§342D-1, 342D-4, 342D-5, Ch. 342E; 40 C.F.R. §131.12) (Imp: HRS §§342D-4, 342D-5, Ch. 342E)

§11-54-2 Classification of [state]State waters.

(a) State waters are classified as either inland waters or marine waters.

(b) Inland waters may be fresh, brackish, or saline.

(1) All inland fresh waters are classified as follows, based on their ecological characteristics and other natural criteria:

(A) Flowing waters.

(i) Streams (perennial and intermittent);

(ii) Flowing springs and seeps; and

(iii) Ditches and flumes that discharge into any other waters of the State;

(B) Standing waters.

(i) Natural freshwater lakes; and Reservoirs (impoundments);

(C) Wetlands.

(i) Elevated wetlands (bogs, marshes, swamps, and associated ponds); and

- (ii) Low wetlands (marshes, swamps, and associated ponds).
- (2) All inland brackish or saline waters are classified as follows, based on their ecological characteristics and other natural criteria:
 - (A) Standing waters.
 - (i) Anchialine pools; and
 - (ii) Saline lakes.
 - (B) Wetlands.
 - (i) Coastal wetlands (marshes, swamps, and associated ponds).
 - (C) Estuaries.
 - (i) Natural estuaries (stream-fed estuaries and spring-fed estuaries); and
 - (ii) Developed estuaries.
- (c) Marine waters
 - (1) All marine waters are either embayments, open coastal, or oceanic waters;
 - (2) All marine waters which are embayments or open coastal waters are also classified according to the following bottom subtypes:
 - (A) Sand beaches;
 - (B) Lava rock shorelines and solution benches;
 - (C) Marine pools and protected coves;
 - (D) Artificial basins;
 - (E) Reef flats; and
 - (F) Soft bottoms. [Eff 11/12/82; am and comp 10/6/84; am and comp 04/14/88; am and comp 01/18/90; am and comp 10/29/92, am and comp 04/17/00; am and comp 10/2/04; comp 06/15/09; comp 10/21/12; am and comp 12/6/13; am and comp _____] (Auth: HRS §§342D-1, 342D-4, 342D-5, Ch. 342E)(Imp: HRS §§342D-4, 342D-5, Ch. 342E)

§11-54-3 Classification of water uses. (a) The following use categories classify inland and marine waters for purposes of applying the standards set forth in this chapter, and for the selection or definition of appropriate quality parameters and uses to be protected in these waters. Storm water discharge into State waters shall be allowed provided it meets the requirements specified in this section and the basic water quality criteria specified in section 11-54-4.

(b) Inland waters.

(1) Class 1.

It is the objective of class 1 waters that these waters remain in their natural state as nearly as possible with an absolute minimum of pollution from any human-caused source. To the extent possible, the wilderness character of these areas shall be protected. Waste discharge into these waters is prohibited, except as provided in section 11-54-4(e). Any conduct which results in a demonstrable increase in levels of point or nonpoint source contamination in class 1 waters is prohibited.

(A) Class 1.a.

The uses to be protected in class 1.a waters are scientific and educational purposes, protection of native breeding stock, baseline references from which human-caused changes can be measured, compatible recreation, aesthetic enjoyment, and other nondegrading uses which are compatible with the protection of the ecosystems associated with waters of this class;

(B) Class 1.b.

The uses to be protected in class 1.b waters are domestic water supplies, food processing, protection of native breeding stock, the support and

propagation of aquatic life, baseline references from which human-caused changes can be measured, scientific and educational purposes, compatible recreation, and aesthetic enjoyment. Public access to these waters may be restricted to protect drinking water supplies;

(2) Class 2

The objective of class 2 waters is to protect their use for recreational purposes, the support and propagation of aquatic life, agricultural and industrial water supplies, shipping, and navigation. The uses to be protected in this class of waters are all uses compatible with the protection and propagation of fish, shellfish, and wildlife, and with recreation in and on these waters. These waters shall not act as receiving waters for any discharge which has not received the best degree of treatment or control compatible with the criteria established for this class. No new treated sewage discharges shall be permitted within estuaries. No new industrial discharges shall be permitted within estuaries, with the exception of:

- (A) Acceptable non-contact thermal and drydock or marine railway discharges within Pearl Harbor, Oahu;
- (B) [Stormwater]Storm water discharges associated with industrial activities (defined in 40 C.F.R. sections 122.26(b)(14) and(b)(15), except (b)(15)(i)(A) and (b)(15)(i)(B)) which meet, at the minimum, the basic water quality criteria applicable to all waters as specified in section 11-54-4(a), and all applicable requirements specified in chapter 11-55, titled "Water Pollution Control"; and

(C) Discharges covered by a National Pollutant Discharge Elimination System (NPDES) general permit, approved by the U.S. Environmental Protection Agency and issued by the Department in accordance with 40 C.F.R. section 122.28 and all applicable requirements specified in chapter 11-55, titled "Water Pollution Control".

(c) Marine waters.

(1) Class AA.

It is the objective of class AA waters that these waters remain in their natural pristine state as nearly as possible with an absolute minimum of pollution or alteration of water quality from any human-caused source or actions. To the extent practicable, the wilderness character of these areas shall be protected. No zones of mixing shall be permitted in this class:

(A) Within a defined reef area, in waters of a depth less than 18 meters (ten fathoms); or

(B) In waters up to a distance of 300 meters (one thousand feet) off shore if there is no defined reef area and if the depth is greater than 18 meters (ten fathoms).

The uses to be protected in this class of waters are oceanographic research, the support and propagation of shellfish and other marine life, conservation of coral reefs and wilderness areas, compatible recreation, and aesthetic enjoyment. The classification of any water area as Class AA shall not preclude other uses of the waters compatible with these objectives and in conformance with the criteria applicable to them;

(2) Class A.

It is the objective of class A waters that their use for recreational purposes and aesthetic enjoyment be protected. Any other use shall be permitted as long as it is compatible with the protection and propagation of fish, shellfish, and wildlife, and with recreation in and on these waters. These waters shall not act as receiving waters for any discharge which has not received the best degree of treatment or control compatible with the criteria established for this class. No new sewage discharges will be permitted within embayments. No new industrial discharges shall be permitted within embayments, with the exception of:

- (A) Acceptable non-contact thermal and drydock or marine railway discharges, in the following water bodies:
 - (i) Honolulu Harbor, Oahu;
 - (ii) Barbers Point Harbor, Oahu;
 - (iii) Keehi Lagoon Marina Area, Oahu;
 - (iv) Ala Wai Boat Harbor, Oahu; and
 - (v) Kahului Harbor, Maui.
- (B) Storm water discharges associated with industrial activities (defined in 40 C.F.R. sections 122.26(b)(14) and (b)(15), except (b)(15)(i)(A) and (b)(15)(i)(B)) which meet, at the minimum, the basic water quality criteria applicable to all waters as specified in section 11-54-4, and all applicable requirements specified in the chapter 11-55, titled "Water Pollution Control"; and
- (C) Discharges covered by a NPDES general permit, approved by the U.S. Environmental Protection Agency and issued by the Department in accordance with 40 C.F.R. section 122.28 and all applicable requirements specified in

chapter 11-55, titled "Water Pollution Control".

- (d) Marine bottom ecosystems.
 - (1) Class I.

It is the objective of class I marine bottom ecosystems that they remain as nearly as possible in their natural pristine state with an absolute minimum of pollution from any human-induced source. Uses of marine bottom ecosystems in this class are passive human uses without intervention or alteration, allowing the perpetuation and preservation of the marine bottom in a most natural state, such as for nonconsumptive scientific research (demonstration, observation or monitoring only), nonconsumptive education, aesthetic enjoyment, passive activities, and preservation;
 - (2) Class II.

It is the objective of class II marine bottom ecosystems that their use for protection including propagation of fish, shellfish, and wildlife, and for recreational purposes not be limited in any way. The uses to be protected in this class of marine bottom ecosystems are all uses compatible with the protection and propagation of fish, shellfish, and wildlife, and with recreation. Any action which may permanently or completely modify, alter, consume, or degrade marine bottoms, such as structural flood control channelization(dams); landfill and reclamation; navigational structures (harbors, ramps); structural shore protection (seawalls, revetments); and wastewater effluent outfall structures may be allowed upon securing approval in writing from the director, considering the environmental impact and the public interest

pursuant to sections 342D-4, 342D-5, 342D-6, and 342D-50, HRS in accordance with the applicable provisions of chapter 91, HRS. [Eff 11/12/82; am and comp 10/6/84; am and comp 04/14/88; am and comp 01/18/90; am and comp 10/29/92, am and comp 04/17/00; am and comp 10/2/04; comp 06/15/09; am and comp 10/21/12; am and comp 12/6/13; am and comp](Auth: HRS §174C, §§342D-1, 342D-4, 342D-5, Ch. 342E) (Imp: HRS §§342D-4, 342D-5, Ch. 342E)

§11-54-4 Basic water quality criteria applicable to all waters. (a) All waters shall be free of substances attributable to domestic, industrial, or other controllable sources of pollutants, including:

- (1) Materials that will settle to form objectionable sludge or bottom deposits;
- (2) Floating debris, oil, grease, scum, or other floating materials;
- (3) Substances in amounts sufficient to produce taste in the water or detectable off-flavor in the flesh of fish, or in amounts sufficient to produce objectionable color, turbidity or other conditions in the receiving waters;
- (4) High or low temperatures, biocides, pathogenic organisms, toxic, radioactive, corrosive, or other deleterious substances at levels or in combinations sufficient to be toxic or harmful to human, animal, plant, or aquatic life, or in amounts sufficient to interfere with any beneficial use of the water;
- (5) Substances or conditions or combinations thereof in concentrations which produce undesirable aquatic life; and
- (6) Soil particles resulting from erosion on land involved in earthwork, such as the

construction of public works; highways; subdivisions; recreational, commercial, or industrial developments; or the cultivation and management of agricultural lands.

(b) The director is authorized to impose by order the penalties and fines and corrective measures as specified in chapters 342D and 342E, HRS, against any person who discharges or otherwise causes or allows water pollutants to enter State waters and cause violation of this chapter, unless that person acted in compliance with a permit or variance issued by the director pursuant to chapters 342D, HRS, for that person's discharges. Each day that the person has caused each water quality standard not to be met shall constitute a separate offense.

[(b)](c) To ensure compliance with paragraph (a)(4), all [state]State waters are subject to monitoring and to the following standards for acute and chronic toxicity and the protection of human health.

(1) As used in this section:

"Acute Toxicity" means the degree to which a pollutant, discharge, or water sample causes a rapid adverse impact to aquatic organisms. The acute toxicity of a discharge or receiving water is measured using the methods in section 11-54-10, unless other methods are specified by the director.

"Chronic Toxicity" means the degree to which a pollutant, discharge, or water sample causes a long-term adverse impact to aquatic organisms, such as a reduction in growth or reproduction. The chronic toxicity of a discharge or receiving water is measured using the methods in section 11-54-10, unless other methods are specified by the director.

"Dilution" means, for discharges through submerged outfalls, the average and minimum values calculated using the models in the EPA publication, Initial Mixing Characteristics of Municipal Ocean Discharges (EPA/600/3-85/073,

November, 1985), or in the EPA publication, Expert System for Hydrodynamic Mixing Zone Analysis of Conventional and Toxic Submerged Single Port Discharges (Cormix 1) (EPA/600/3-90/012), February, 1990.

"In-Stream Waste Concentration" (IWC) means the concentration of a toxicant in the receiving water, or for a discharge, the concentration of the effluent after minimum dilution authorized by the department. A discharge of one hundred divided by the minimum dilution is the IWC when the dilution is authorized by the director. A discharge of one hundred per cent effluent is the IWC when dilution is not authorized by the director.

"No Observed Effect Concentration" (NOEC), means the highest per cent concentration of a discharge or water sample, in dilution water, which causes no observable adverse effect in a chronic toxicity test. For example, an NOEC of 100 per cent indicates that an undiluted discharge or water sample causes no observable adverse effect to the organisms in a chronic toxicity test.

"Test of Significant Toxicity" (TST) means the alternative statistical method for analyzing and interpreting valid whole effluent toxicity test data as described in the EPA publications, National Pollutant Discharge Elimination System Test of Significant Toxicity Implementation Document, EPA 833-R-10-003 (June 2010), and National Pollutant Discharge Elimination System Test of Significant Toxicity Technical Document, EPA 833-R-10-004 (June 2010).

(2) Narrative toxicity and human health standards.

(A) Acute Toxicity Standards: All [state]State waters shall be free from pollutants in concentrations which exceed the acute standards listed in paragraph (3). All [state]State waters shall also be free from acute toxicity

as measured using the toxicity tests listed in section 11-54-10, or other methods specified by the director.

- (B) Chronic Toxicity Standards: All [state]State waters shall be free from pollutants in concentrations which on average during any twenty-four hour period exceed the chronic standards listed in paragraph (3). All [state]State waters shall also be free from chronic toxicity as measured using the toxicity tests listed in section 11-54-10, or other methods specified by the director.
- (C) Human Health Standards: All [state]State waters shall be free from pollutants in concentrations which, on average during any thirty day period, exceed the "fish consumption" standards for non-carcinogens in paragraph (3). All [state]State waters shall also be free from pollutants in concentrations, which on average during any 12 month period, exceed the "fish consumption" standards for pollutants identified as carcinogens in paragraph (3).
- (3) Numeric standards for toxic pollutants applicable to all waters. The freshwater standards apply where the dissolved inorganic ion concentration is less than 0.5 parts per thousand; saltwater standards apply above 0.5 parts per thousand. Values for metals refer to the dissolved fraction. All values are expressed in micrograms per liter.

<u>Pollutant</u>	<u>Freshwater</u>		<u>Saltwater</u>		<u>Fish Consumption</u>
	<u>Acute</u>	<u>Chronic</u>	<u>Acute</u>	<u>Chronic</u>	
Acenaphthene	570	ns	320	ns	ns

<u>Pollutant</u>	<u>Freshwater</u>		<u>Saltwater</u>		<u>Fish</u>
	<u>Acute</u>	<u>Chronic</u>	<u>Acute</u>	<u>Chronic</u>	<u>Consumption</u>
Acrolein	23	ns	18	ns	250
Acrylonitrile*	2,500	ns	ns	ns	0.21
Aldrin*	3.0	ns	1.3	ns	0.000026
Aluminum	750	260	ns	ns	ns
Antimony	3,000	ns	ns	ns	15,000
Arsenic	360	190	69	36	ns
Benzene*	1,800	ns	1,700	ns	13
Benzidine*	800	ns	ns	ns	0.00017
Beryllium*	43	ns	ns	ns	0.038
Cadmium	3+	3+	43	9.3	ns
Carbon tetra- chloride*	12,000	ns	16,000	ns	2.3
Chlordane*	2.4	0.0043	0.09	0.004	0.00016
Chlorine	19	11	13	7.5	ns
Chloroethers- ethyl(bis-2)*	ns	ns	ns	ns	0.44
isopropyl	ns	ns	ns	ns	1,400
methyl(bis)*	ns	ns	ns	ns	0.00060
Chloroform*	9,600	ns	ns	ns	5.1
Chlorophenol(2)	1,400	ns	ns	ns	ns
Chlorpyrifos	0.083	0.041	0.011	0.0056	ns
Chromium (VI)	16	11	1,100	50	ns
Copper	6+	6+	2.9	2.9	ns
Cyanide	22	5.2	1	1	ns
DDT*	1.1	0.001	0.013	0.001	0.000008

<u>Pollutant</u>	<u>Freshwater</u>		<u>Saltwater</u>		<u>Fish</u>
	<u>Acute</u>	<u>Chronic</u>	<u>Acute</u>	<u>Chronic</u>	<u>Consumption</u>
metabolite TDE*	0.03	ns	1.2	ns	ns
Demeton	ns	0.1	ns	0.1	ns
Dichloro-					
benzenes*	370	ns	660	ns	850
benzidine*	ns	ns	ns	ns	0.007
ethane(1,2)*	39,000	ns	38,000	ns	79
phenol(2,4)	670	ns	ns	ns	ns
propanes	7,700	ns	3,400	ns	ns
propene(1,3)	2,000	ns	260	ns	4.6
Dieldrin*	2.5	0.0019	0.71	0.0019	0.000025
Dinitro					
o-cresol(4,6)	ns	ns	ns	ns	250
toluenes*	110	ns	200	ns	3.0
Dioxin*	0.003	ns	ns	ns	5.0×10^{-9}
Diphenyl-					
hydrazine(1,2)	ns	ns	ns	ns	0.018
Endosulfan	0.22	0.056	0.034	0.0087	52
Endrin	0.18	0.0023	0.037	0.0023	ns
Ethylbenzene	11,000	ns	140	ns	1,070
Fluoranthene	1,300	ns	13	ns	18
Guthion	ns	0.01	ns	0.01	ns
Heptachlor*	0.52	0.0038	0.053	0.0036	0.00009
Hexachloro-					
benzene*	ns	ns	ns	ns	0.00024
butadiene*	30	ns	11	ns	16

<u>Pollutant</u>	<u>Freshwater</u>		<u>Saltwater</u>		<u>Fish Consumption</u>
	<u>Acute</u>	<u>Chronic</u>	<u>Acute</u>	<u>Chronic</u>	
cyclohexane-					
alpha*	ns	ns	ns	ns	0.010
beta*	ns	ns	ns	ns	0.018
technical*	ns	ns	ns	ns	0.014
cyclopentadiene	2	ns	2	ns	ns
ethane*	330	ns	310	ns	2.9
Isophorone	39,000	ns	4,300	ns	170,000
Lead	29+	29+	140	5.6	ns
Lindane*	2.0	0.08	0.16	ns	0.020
Malathion	ns	0.1	ns	0.1	ns
Mercury	2.4	0.55	2.1	0.025	0.047
Methoxychlor	ns	0.03	ns	0.03	ns
Mirex	ns	0.001	ns	0.001	ns
Naphthalene	770	ns	780	ns	ns
Nickel	5+	5+	75	8.3	33
Nitrobenzene	9,000	ns	2,200	ns	ns
Nitrophenols*	77	ns	1,600	ns	ns
Nitrosamines*	1,950	ns	ns	ns	0.41
Nitroso					
dibutylamine-N*	ns	ns	ns	ns	0.19
diethylamine-N*	ns	ns	ns	ns	0.41
dimethylamine-N*	ns	ns	ns	ns	5.3
diphenylamine-N*	ns	ns	ns	ns	5.3
pyrrolidine-N*	ns	ns	ns	ns	30

<u>Pollutant</u>	<u>Freshwater</u>		<u>Saltwater</u>		<u>Fish Consumption</u>
	<u>Acute</u>	<u>Chronic</u>	<u>Acute</u>	<u>Chronic</u>	
Parathion	0.065	0.013	ns	ns	ns
Pentachloro-ethanes	2,400	ns	130	ns	ns
benzene	ns	ns	ns	ns	28
phenol	20	13	13	ns	ns
Phenol	3,400	ns	170	ns	ns
2,4-dimethyl	700	ns	ns	ns	ns
Phthalate esters					
dibutyl	ns	ns	ns	ns	50,000
diethyl	ns	ns	ns	ns	590,000
di-2-ethylhexyl	ns	ns	ns	ns	16,000
dimethyl	ns	ns	ns	ns	950,000
Polychlorinated biphenyls*	2.0	0.014	10	0.03	0.000079
Polynuclear aromatic hydrocarbons*	ns	ns	ns	ns	0.01
Selenium	20	5	300	71	ns
Silver	1+	1+	2.3	ns	ns
Tetrachloro-ethanes	3,100	ns	ns	ns	ns
benzene(1,2,4,5)	ns	ns	ns	ns	16
ethane(1,1,2,2)*	ns	ns	3,000	ns	3.5
ethylene*	1,800	ns	3,400	145	2.9
phenol(2,3,5,6)	ns	ns	ns	440	ns
Thallium	470	ns	710	ns	16
Toluene	5,800	ns	2,100	ns	140,000

<u>Pollutant</u>	<u>Freshwater</u>		<u>Saltwater</u>		<u>Fish</u>
	<u>Acute</u>	<u>Chronic</u>	<u>Acute</u>	<u>Chronic</u>	<u>Consumption</u>
Toxaphene*	0.73	0.0002	0.21	0.0002	0.00024
Tributyltin	ns	0.026	ns	0.01	ns
Trichloro-					
ethane(1,1,1)	6,000	ns	10,400	ns	340,000
ethane(1,1,2)*	6,000	ns	ns	ns	14
ethylene*	15,000	ns	700	ns	26
phenol(2,4,6)*	ns	ns	ns	ns	1.2
Vinyl chloride*	ns	ns	ns	ns	170
Zinc	22+	22+	95	86	ns

ns - No standard has been developed.

* - Carcinogen.

+ - The value listed is the minimum standard. Depending upon the receiving water CaCO₃ hardness, higher standards may be calculated using the respective formula in the U. S. Environmental Protection Agency publication Quality Criteria for Water (EPA 440/5-86-001, Revised May 1, 1987).

Note - Compounds listed in the plural in the "Pollutant" column represent complex mixtures of isomers.

Numbers listed to the right of these compounds refer to the total allowable concentration of any combination of isomers of the compound, not only to concentrations of individual isomers.

- (4) The following are basic requirements applicable to discharges to [state]State waters. These standards shall be enforced through effluent limitations or other conditions in discharge permits. The director may apply more stringent discharge requirements to any discharge if necessary to ensure compliance with all standards in paragraph (2).
- (A) Continuous discharges through submerged outfalls.

- (i) The No Observed Effect Concentration (NOEC), expressed as per cent effluent, of continuous discharges through submerged outfalls shall not be less than 100 divided by the minimum dilution; or,
 - (ii) The Test of Significant Toxicity (TST), as described in EPA 833-R-10-003 (June 2010) and EPA 833-R-10-004 (June 2010), shall be used to demonstrate no unacceptable level of chronic toxicity at the In-stream Waste Concentration (IWC). The chronic toxicity criterion is expressed using a regulatory management decision (b value) of 0.75 for chronic toxicity where, a 0.25 effect level (or more) at the IWC demonstrates an unacceptable level of chronic toxicity.
- (B) Continuous discharges through submerged outfalls shall not contain:
- (i) Pollutants in [twenty four]twenty-four hour average concentrations greater than the values obtained by multiplying the minimum dilution by the standards in paragraph (3) for the prevention of chronic toxicity.
 - (ii) Non-carcinogenic pollutants in thirty day average concentrations greater than the values obtained by multiplying the minimum dilution by the standards in paragraph (3) for fish consumption.
 - (iii) Carcinogenic pollutants in twelve month average concentrations greater than the values obtained

by multiplying the average dilution by the standards in paragraph (3) for fish consumption.

- (C) Discharges without submerged outfalls.
- (i) The survival of test organisms in an undiluted acute toxicity test of any discharge shall not be less than eighty per cent;
 - (ii) Compliance with the acute toxicity NPDES effluent limit is demonstrated by using the Test of Significant Toxicity (TST) as described in EPA 833-R-10-003 (June 2010) and EPA 833-R-10-004 (June 2010). The acute toxicity criterion is expressed using a regulatory management decision (*b* value) of 0.80 for acute toxicity test methods listed in 11-54-10, where, in an undiluted acute toxicity test, a 0.20 effect level (or more) at the IWC demonstrates an unacceptable level of acute toxicity; or,
 - (iii) The Test of Significant Toxicity (TST), as described in EPA 833-R-10-003 (June 2010) and EPA 833-R-10-004 (June 2010), shall be used to demonstrate no unacceptable level of chronic toxicity at the IWC. The chronic toxicity criterion is expressed using a regulatory management decision (*b* value) of 0.75 for chronic toxicity where, a 0.25 effect level (or more) at the IWC demonstrates an unacceptable level of chronic toxicity. Toxicity is considered significant if the mean response

in the IWC is greater than 0.75 multiplied by the mean response of the control.

No discharge shall contain pollutants in concentrations greater than the standards in paragraph (3) for the prevention of acute toxicity to aquatic life. The director may make a limited allowance for dilution for a discharge in this category if it meets the following criteria: the discharge velocity is greater than 3 meters per second; the discharge enters the receiving water horizontally, and; the receiving water depth at the discharge point is greater than zero.

[(c)](d) The requirements of paragraph (a)(6) shall be deemed met upon a showing that the land on which the erosion occurred or is occurring is being managed in accordance with soil conservation practices acceptable to the applicable soil and water conservation district and the director, and that a comprehensive conservation program is being actively pursued, or that the discharge has received the best degree of treatment or control, and that the severity of impact of the residual soil reaching the receiving body of water is deemed to be acceptable.

[(d)](e) In order to reduce a risk to public health or safety arising out of any violation or probable violation of this chapter, the director may post or order posted any [state]State waters. Posting is the placement, erection, or use of a sign or signs warning people to stay out of, avoid drinking, avoid contact with, or avoid using the water. This posting authority shall not limit the director's authority to post or order posting in any other appropriate case or to take any enforcement action.

[(e)](f) Pesticide Application.

(1) As used in this section:

"Declared pest emergency situation" means an event defined by a public declaration by the

President of the United States, state governor or, with the concurrence of the director, county mayor of a pest problem determined to require control through application of a pesticide beginning less than ten days after identification of the need for pest control.

"Pest" means any insect, rodent, nematode, fungus, weed, or

- (A) Any other form of terrestrial or aquatic plant or animal life or virus, bacteria, or other micro-organism (except viruses, bacteria, or other micro-organisms on or in living man or other living animals) which the Administrator declares to be a pest under 7 U.S.C. §136w(c)(1).

"Pesticide" means

- (A) Any substance or mixture of substances intended for preventing, destroying, repelling, or mitigating any pest;
- (B) Any substance or mixture of substances intended for use as a plant regulator, defoliant, or desiccant; and
- (C) Any nitrogen stabilizer, except that the term "pesticide" shall not include any article that is a "new animal drug" within the meaning of 21 U.S.C. 321(w), that has been determined by the Secretary of Health and Human Services not to be a new animal drug by a regulation establishing conditions of use for the article, or that is an animal feed within the meaning of 21 U.S.C. 321(x) bearing or containing a new animal drug.

The term "pesticide" does not include liquid chemical sterilant products (including any sterilant or subordinate disinfectant claims on such products) for use on a critical or semi-critical device, as defined in section 201 of 21 U.S.C. §321. For purposes of the preceding sentence, the term "critical device" includes any

device which is introduced directly into the human body, either into or in contact with the bloodstream or normally sterile areas of the body and the term "semi-critical device" includes any device which contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. The term "pesticide" applies to insecticides, herbicides, fungicides, rodenticides, and various other substances used to control pests. The definition encompasses all uses of pesticides authorized under [FIFRA]the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) including uses authorized under sections 3 (registration), 5 (experimental use permits), 18 (emergency exemptions), 24(c) (special local needs registrations), and 25(b) (exemptions from FIFRA).

Note: drugs used to control diseases of humans or animals (such as livestock, fishstock and pets) are not considered pesticides; such drugs are regulated by the Food and Drug Administration. Fertilizers, nutrients, and other substances used to promote plant survival and health are not considered plant growth regulators and thus are not pesticides. Biological control agents, except for certain microorganisms, are exempted from regulation under FIFRA. (Biological control agents include beneficial predators such as birds or ladybugs that eat insect pests, parasitic wasps, fish, etc.).

- (2) Pesticide applications may be made to State waters if the pesticide applications are:
- (A) Registered by the U.S. Environmental Protection Agency and licensed by the state department of agriculture or other state agency regulating pesticides;
 - (B) Used for the purpose of controlling mosquito and other flying insect pests; controlling weed and algae pests; controlling animal pests; controlling

- forest canopy pests; or protecting public health or the environment in a declared pest emergency situation or as determined by the director;
- (C) Applied in a manner consistent with the labeling of the pesticide under [the Federal Insecticide, Fungicide, and Rodenticide Act;] FIFRA;
- (D) Applied under permits issued pursuant to HRS chapter 342D, if the [Director] director requires such permits under chapter 342D, HRS;
- (E) Applied in a manner so applicable narrative and numeric state water quality criteria as required in chapter 11-54 are met. [Eff 11/12/82; am and comp 10/6/84; am and comp 04/14/88; am and comp 01/18/90; am and comp 10/29/92, am and comp 04/17/00; am and comp 10/2/04; am and comp 06/15/09; am and comp 10/21/12; am and comp 12/6/13; am and comp] (Auth: HRS §§342D-1, 342D-4, 342D-5, Ch. 342E) (Imp: HRS §§342D-4, 342D-5, Ch. 342E)

§11-54-5 Uses and specific criteria applicable to inland waters. Inland water areas to be protected are described in section 11-54-5.1, corresponding specific criteria are set forth in section 11-54-5.2; water body types are defined in section 11-54-1. [Eff 11/12/82; am and comp 10/6/84; am and comp 04/14/88; am and comp 01/18/90; am and comp 10/29/92, am and comp 04/17/00; am and comp 10/2/04; comp 06/15/09; comp 10/21/12; comp 12/6/13; comp] (Auth: HRS §§342D-1, 342D-4, 342D-5, Ch. 342E) (Imp: HRS §§342D-4, 342D-5, Ch. 342E)

§11-54-5.1 Inland water areas to be protected.

(a) Freshwaters.

(1) Flowing waters: perennial streams and rivers, intermittent streams, springs and seeps, and man-made ditches and flumes that discharge into any other waters of the State.

(A) Class 1.a.:

- (i) All flowing waters within the natural reserves, preserves, sanctuaries, and refuges established by the department of land and natural resources under chapter 195, HRS, or similar reserves for the protection of aquatic life established under chapter 195, HRS.
- (ii) All flowing waters in national and state parks.
- (iii) All flowing waters in state or federal fish and wildlife refuges.
- (iv) All flowing waters which have been identified as a unique or critical habitat for threatened or endangered species by the U.S. Fish and Wildlife Service.
- (v) All flowing waters in Waimanu National Estuarine Research Reserve (Hawai'i).

Waters are listed in Appendix A dated July 1, 2014, entitled "Class 1, Inland Waters", located at the end of this chapter.

- (B) Class 1.b.: All flowing waters in protective subzones designated under chapter 13-5 by the state department of land and natural resources[.] as listed in Appendix A dated July 1, 2014, entitled "Class 1, Inland Waters", located at the end of this chapter.

(C) Class 2.: All flowing waters in areas not otherwise classified.

All flowing waters in classes 1 and 2 in which water quality exceeds the standards specified in this chapter shall not be lowered in quality unless it has been affirmatively demonstrated to the director that the change is justifiable as a result of important economic or social development and will not interfere with or become injurious to any assigned uses made of, or presently in, those waters. This statement of antidegradation policy does not limit the applicability of the policy in section 11-54-1.1 to the whole chapter.

(2) Standing waters (natural freshwater lakes and reservoirs):

(A) Class 1.a.:

- (i) All standing waters within the natural reserves, preserves, sanctuaries, and refuges established by the department of land and natural resources under chapter 195, HRS, or similar reserves for the protection of aquatic life established under chapter 195, HRS.
- (ii) All standing waters in national and state parks.
- (iii) All standing waters in state or federal fish and wildlife refuges.
- (iv) All standing waters which have been identified as a unique or critical habitat for threatened or endangered species by the U.S. Fish and Wildlife Service.
- (v) All standing waters in Waimanu National Estuarine Research Reserve (Hawai'i).

As listed in Appendix A dated July 1, 2014, entitled "Class 1, Inland

Waters", located at the end of this chapter.

- (B) Class 1.b.: All standing waters in protective subzones designated under chapter 13-5 by the state department of land and natural resources[.] as listed in Appendix A dated July 1, 2014, entitled "Class 1, Inland Waters", located at the end of this chapter.
 - (C) Class 2.: All standing waters in areas not otherwise classified.
- (3) Elevated wetlands and low wetlands:
- (A) Class 1.a.:
 - (i) All elevated and low wetlands within the natural reserves, preserves, sanctuaries, and refuges established by the department of land and natural resources under chapter 195, HRS, or similar reserves for the protection of aquatic life established under chapter 195, HRS.
 - (ii) All elevated and low wetlands in national and state parks.
 - (iii) All elevated and low wetlands in state or federal fish and wildlife refuges.
 - (iv) All elevated and low wetlands which have been identified as a unique or critical habitat for threatened or endangered species by the U.S. Fish and Wildlife Service.
 - (v) All elevated and low wetlands in Waimanu National Estuarine Research Reserve (Hawai'i).

Waters are listed in Appendix A dated July 1, 2014, entitled "Class 1, Inland Waters", located at the end of this chapter.

- (B) Class 1.b.: All elevated and low wetlands in protective subzones designated under chapter 13-5 by the state department of land and natural resources[.] as listed in Appendix A dated July 1, 2014, entitled "Class 1, Inland Waters", located at the end of this chapter.
 - (C) Class 2.: All elevated and low wetlands not otherwise classified.
 - (b) Brackish or saline waters (anchialine pools, saline lakes, coastal wetlands, and estuaries).
 - (1) Class 1.a.:
 - (A) All inland brackish or saline waters within natural reserves, preserves, sanctuaries, and refuges established by the department of land and natural resources under chapter 195, HRS, or similar reserves for the protection of aquatic life established under chapter 195, HRS.
 - (B) All inland brackish or saline waters in national and state parks.
 - (C) All inland brackish or saline waters in state or federal fish and wildlife refuges.
 - (D) All inland brackish or saline waters which have been identified as a unique or critical habitat for threatened or endangered species by the U.S. Fish and Wildlife Service.
 - (E) All inland brackish and saline waters in Waimanu National Estuarine Research Reserve (Hawai'i).
 - (F) The following natural estuaries:
Lumaha'i and Kilauea estuaries
(Kaua'i).
- Waters are listed in Appendix A dated July 1, 2014, entitled "Class 1, Inland Waters", located at the end of this chapter.

- (2) Class 1.b.: All inland brackish or saline waters in protective subzones designated under chapter 13-5 by the state department of land and natural resources[.] as listed in Appendix A dated July 1, 2014, entitled "Class 1, Inland Waters", located at the end of this chapter.
- (3) Class 2.: All inland brackish and saline waters not otherwise classified. [Eff 11/12/82; am and comp 10/6/84; am and comp 04/14/88; am and comp 01/18/90; am and comp 10/29/92, am and comp 04/17/00; am and comp 10/2/04; comp 06/15/09; comp 10/21/12; am and comp 12/6/13; am and comp _____](Auth: HRS §§342D-1, 342D-4, 342D-5, Ch. 342E) (Imp: HRS §§342D-4, 342D-5, Ch. 342E)

§11-54-5.2 Inland water criteria. (a) Criteria for springs and seeps, ditches and flumes, natural freshwater lakes, reservoirs, low wetlands, coastal wetlands, saline lakes, and anchialine pools. Only the basic criteria set forth in section 11-54-4 apply to springs and seeps, ditches and flumes, natural freshwater lakes, reservoirs, low wetlands, coastal wetlands, saline lakes, and anchialine pools. Natural freshwater lakes, saline lakes, and anchialine pools will be maintained in the natural state through Hawai'i's "no discharge" policy for these waters. Waste discharge into these waters is prohibited, except as provided in section 11-54-4(e)(see section 11-54-3(b)(1)).

(b) Specific criteria for streams. Water column criteria for streams shall be as provided in the following table:

<u>Parameter</u>	Geometric mean not to exceed the <u>given value</u>	Not to exceed the given value more than <u>ten per cent of the time</u>	Not to Exceed the given value more than two per cent of <u>the time</u>
Total Nitrogen (ug N/L)	250.0* 180.0**	520.0* 380.0**	800.0* 600.0**
Nitrate + Nitrite Nitrogen (ug [NO ₃ +NO ₂]-N/L)	70.0* 30.0**	180.0* 90.0**	300.0* 170.0**
Total Phosphorus (ug P/L)	50.0* 30.0**	100.0* 60.0**	150.0* 80.0**
Total Suspended Solids (mg/L)	20.0* 10.0**	50.0* 30.0**	80.0* 55.0**
Turbidity (N.T.U.)	5.0* 2.0**	15.0* 5.5**	25.0* 10.0**

* Wet season - November 1 through April 30.

** Dry season - May 1 through October 31.

L = liter

N.T.U. = Nephelometric Turbidity Units. A comparison of the intensity of light scattered by the sample under defined conditions with the intensity of light scattered by a standard reference suspension under the same conditions. The higher the intensity of scattered light, the higher the turbidity.

ug = microgram or 0.000001 grams

pH Units - shall not deviate more than 0.5 units from ambient conditions and shall not be lower than 5.5 nor higher than 8.0

Dissolved Oxygen - Not less than eighty per cent saturation, determined as a function of ambient water temperature.

Temperature - Shall not vary more than one degree Celsius from ambient conditions.

Specific Conductance - Not more than three hundred micromhos/centimeter.

(1) Bottom criteria for streams:

- (A) Episodic deposits of flood-borne soil sediment shall not occur in quantities exceeding an equivalent thickness of five millimeters (0.20 inches) over hard bottoms twenty-four hours after a heavy rainstorm.
 - (B) Episodic deposits of flood-borne soil sediment shall not occur in quantities exceeding an equivalent thickness of ten millimeters (0.40 inches) over soft bottoms twenty-four hours after a heavy rainstorm.
 - (C) In soft bottom material in pool sections of streams, oxidation-reduction potential (EH) in the top ten centimeters (four inches) shall not be less than +100 millivolts.
 - (D) In soft bottom material in pool sections of streams, no more than fifty per cent of the grain size distribution of sediment shall be smaller than 0.125 millimeters (0.005 inches) in diameter.
 - (E) The director shall prescribe the appropriate parameters, measures, and criteria for monitoring stream bottom biological communities including their habitat, which may be affected by proposed actions. Permanent benchmark stations may be required where necessary for monitoring purposes. The water quality criteria for this subsection shall be deemed to be met if time series surveys of benchmark stations indicate no relative changes in the relevant biological communities, as noted by biological community indicators or by indicator organisms which may be applicable to the specific site.
- (c) Specific criteria for elevated wetlands: pH units shall not deviate more than 0.5 units from

ambient conditions and shall not be lower than 4.5 nor higher than 7.0.

(d) Specific criteria for estuaries.

(1) The following table is applicable to all estuaries except Pearl Harbor:

<u>Parameter</u>	Geometric mean not to exceed the <u>given value</u>	Not to exceed the given value more than <u>ten per cent of the time</u>	Not to Exceed the given value more than two per cent of <u>the time</u>
Total Nitrogen (ug N/L)	200.00	350.00	500.00
Ammonia Nitrogen (ug NH ₄ -N/L)	6.00	10.00	20.00
Nitrate + Nitrite Nitrogen (ug [NO ₃ +NO ₂]-N/L)	8.00	25.00	35.00
Total Phosphorus (ug P/L)	25.00	50.00	75.00
Chlorophyll a (ug/L)	2.00	5.00	10.00
Turbidity (N.T.U.)	1.5	3.00	5.00

L = liter

N.T.U. = Nephelometric Turbidity Units. A comparison of the intensity of light scattered by the sample under defined conditions with the intensity of light scattered by a standard reference suspension under the same conditions. The higher the intensity of scattered light, the higher the turbidity.

ug = microgram or 0.000001 grams

pH Units - shall not deviate more than 0.5 units from ambient conditions and shall not be lower than 7.0 nor higher than 8.6.

Dissolved Oxygen - Not less than seventy-five per cent saturation, determined as a function of ambient water temperature and salinity.

Temperature - Shall not vary more than one degree Celsius from ambient conditions.

Salinity - Shall not vary more than ten per cent from ambient conditions.

Oxidation - reduction potential (EH) - Shall not be less than -100 millivolts in the uppermost ten centimeters (four inches) of sediment.

(2) The following table is applicable only to Pearl Harbor Estuary.

<u>Parameter</u>	Geometric mean not to exceed the <u>given value</u>	Not to exceed the given value more than <u>ten per cent of the time</u>	Not to exceed the given value more than two per cent of <u>the time</u>
Total Nitrogen (ug N/L)	300.00	550.00	750.00
Ammonia Nitrogen (ug NH ₄ -N/L)	10.00	20.00	30.00
Nitrate + Nitrite Nitrogen (ug [NO ₃ +NO ₂]-N/L)	15.00	40.00	70.00
Total Phosphorus (ug P/L)	60.00	130.00	200.00
Chlorophyll a (ug/L)	3.50	10.00	20.00
Turbidity (N.T.U.)	4.00	8.00	15.00

L = liter

N.T.U. = Nephelometric Turbidity Units. A comparison of the intensity of light scattered by the sample under defined conditions with the intensity of light scattered by a standard reference suspension under the

same conditions. The higher the intensity of scattered light, the higher the turbidity.

ug = microgram or 0.000001 grams.

pH Units - shall not deviate more than 0.5 units from ambient conditions and shall not be lower than 6.8 nor higher than 8.8.

Dissolved Oxygen - Not less than sixty per cent saturation, determined as a function of ambient water temperature and salinity.

Temperature - Shall not vary more than one degree Celsius from ambient conditions.

Salinity - Shall not vary more than ten per cent from ambient conditions.

Oxidation - Reduction potential (EH) - Shall not be less than -100 millivolts in the uppermost ten centimeters (four inches) of sediment. [Eff 11/12/82; am and comp 10/6/84; am and comp 04/14/88; am and comp 01/18/90; am and comp 10/29/92, am and comp 04/17/00; am and comp 10/2/04; comp 06/15/09; am and comp 10/21/12; am and comp 12/6/13; comp]
 (Auth: HRS §§342D-1, 342D-4, 342D-5, Ch. 342E) (Imp: HRS §§342D-4, 342D-5, Ch. 342E)

§11-54-6 Uses and specific criteria applicable to marine waters. (a) Embayments.

- (1) As used in this subsection:
 "Embayments" means land-confined and physically-protected marine waters with restricted openings to open coastal waters, defined by the ratio of total bay volume to the cross-sectional entrance area of seven hundred to one or greater.
 "Total bay volume" is measured in cubic meters and "cross-sectional entrance area" is measured in square meters, and both are determined at mean lower low water.
- (2) Water areas to be protected.

(A) Class AA.

- (i) [Hawaii
Puako Bay
Waiulua Bay
Anaehoomalu Bay
Kiholo Bay
Kailua Harbor
Kealakekua Bay
Honaunau Bay

Oahu
Waialua Bay
Kahana Bay
Kaneohe Bay
Hanauma Bay

Kauai

Hanalei Bay]Waters are listed in Appendix B dated July 1, 2014, entitled "Class AA, Marine Waters and Embayments", located at the end of this chapter.

- (ii) All embayments in preserves, reserves, sanctuaries, and refuges established by the department of land and natural resources under chapter 195 or chapter 190, HRS, as listed in Appendix B dated July 1, 2014, entitled "Class AA, Marine Waters and Embayments", located at the end of this chapter, or similar reserves for the protection of marine life established under chapter 190, HRS[.] as listed in Appendix B dated July 1, 2014, entitled "Class AA, Marine Waters and Embayments", located at the end of this chapter.
- (iii) All waters in state or federal fish and wildlife refuges and

marine sanctuaries[.] as listed in Appendix B dated July 1, 2014, entitled "Class AA, Marine Waters and Embayments", located at the end of this chapter.

- (iv) All waters which have been officially identified as a unique or critical habitat for threatened or endangered species by the U.S. Fish and Wildlife Service[.] as listed in Appendix B dated July 1, 2014, entitled "Class AA, Marine Waters and Embayments", located at the end of this chapter.

(B) Class A.

Hawaii

Hilo Bay (inside breakwater)
 Kawaihae Boat Harbor
 Honokohau Boat Harbor
 Keaouhou Bay

Maui

Kahului Bay
 Lahaina Boat Harbor
 Maalaea Boat Harbor

Lanai

Manele Boat Harbor
 Kaumalapau Harbor

Molokai

Hale o Lono Harbor
 Kaunakakai Harbor
 Kaunakakai Boat Harbor

Oahu

Kaiaka Bay
 Paiko Peninsula to Koko Head
 Ala Wai Boat Harbor
 Kewalo Basin
 Honolulu Harbor
 Keehi Lagoon
 Barbers Point Harbor
 Pokai Bay
 Heeia Kea Boat Harbor

Waianae Boat Harbor
 Haleiwa Boat Harbor
 Ko Olina

Kauai

Hanamaulu Bay
 Nawiliwili Bay
 Kukuiula Bay
 Wahiawa Bay
 Hanapepe Bay (inside breakwater)
 Kikiaola Boat Harbor

Port Allen Boat Harbor] Waters are listed in Appendix C dated July 1, 2014, entitled "Class A, Marine Waters and Embayments", located at the end of this chapter.

(3) The following criteria are specific for all embayments excluding those described in subsection (d). (Note that criteria for embayments differ based on fresh water inflow.)

<u>Parameter</u>	Geometric mean not to exceed the <u>given value</u>	Not to exceed the given value more than <u>ten per cent of the time</u>	Not to Exceed the given value more than <u>Two per cent of The time</u>
Total Nitrogen (ug N/L)	200.00* 150.00**	350.00* 250.00**	500.00* 350.00**
Ammonia Nitrogen (ug NH ₄ -N/L)	6.00* 3.50**	13.00* 8.50**	20.00* 15.00**
Nitrate + Nitrite Nitrogen (ug [NO ₃ +NO ₂]-N/L)	8.00* 5.00**	20.00* 14.00**	35.00* 25.00**
Total Phosphorus (ug P/L)	25.00* 20.00**	50.00* 40.00**	75.00* 60.00**
Chlorophyll a (ug/L)	1.50* 0.50**	4.50*[*] 1.50**	8.50* 3.00**

<u>Parameter</u>	Geometric mean not to exceed the <u>given value</u>	Not to exceed the given value more than <u>ten per cent of the time</u>	Not to Exceed the given value more than Two per cent of <u>The time</u>
Turbidity	1.5*	3.00*	5.00*
(N.T.U.)	0.40**	1.00**	1.50**

* "Wet" criteria apply when the average fresh water inflow from the land equals or exceeds one per cent of the embayment volume per day.

** "Dry" criteria apply when the average fresh water inflow from the land is less than one per cent of the embayment volume per day.

Applicable to both "wet" and "dry" conditions:

pH Units - shall not deviate more than 0.5 units from a value of 8.1, except at coastal locations where and when freshwater from stream, stormdrain or groundwater discharge may depress the pH to a minimum level of 7.0.

Dissolved Oxygen - Not less than seventy-five per cent saturation, determined as a function of ambient water temperature and salinity.

Temperature - Shall not vary more than one degree Celsius from ambient conditions.

Salinity - Shall not vary more than ten per cent from natural or seasonal changes considering hydrologic input and oceanographic factors.

L = liter

N.T.U. = Nephelometric Turbidity Units. A comparison of the intensity of light scattered by the sample under defined conditions with the intensity of light scattered by a standard reference suspension under the same conditions. The higher the intensity of scattered light, the higher the turbidity.

ug = microgram or 0.000001 grams

(b) Open coastal waters.

(1) As used in this subsection:

"Open coastal waters" means marine waters bounded by the 183 meter or 600 foot (100

- fathom) depth contour and the shoreline, excluding bays named in subsection (a).
- (2) Water areas to be protected: [(measured in a clockwise direction from the first-named to the second-named location, where applicable):]
- (A) Class AA[.]as listed in Appendix D dated July 1, 2014, entitled "Class AA, Open Coastal Waters", located at the end of this chapter.
- [(i) Hawaii - The open coastal waters from Leleiwi Point to Waiulaula Point.
 - (ii) Maui - The open coastal waters between Nakalele Point and Waihee Point and between Huelo Point and Puu Olai.
 - (iii) Kahoolawe - All open coastal water surrounding the island.
 - (iv) Lanai - All open coastal waters surrounding the island.
 - (v) Molokai - The open coastal waters between the westerly boundary of Hale o Lono Harbor to Lamaloa Head. Also, the open coastal waters from Cape Halawa to the easterly boundary of Kaunakakai Harbor.
 - (vi) Oahu - Waimanalo Bay from the southerly boundary of Kaiona Beach Park, and including the waters surrounding Manana and Kaohikaipu Islands, to Makapuu Point. Also, Waialua Bay from Kaiaka Point to Puaena Point, and the open coastal waters along Kaena Point between a distance of 5.6 kilometers (3.5 miles) from Kaena Point towards Makua and 5.6 kilometers (3.5 miles) from Kaena Point toward Mokuleia.

- (vii) Kauai - The open coastal waters between Hikimoe Valley and Makahoa Point. Also, the open coastal waters between Makahuena Point and the westerly boundary of Hoai Bay.
- (viii) Niihau - All open coastal waters surrounding the island.
- (ix) All other islands of the state - All open coastal waters surrounding the islands not classified in this section.]
- [(x)](i) All open waters in preserves, reserves, sanctuaries, and refuges established by the department of land and natural resources under chapter 195 or chapter 190, HRS as listed in Appendix D dated July 1, 2014, entitled "Class AA, Open Coastal Waters", located at the end of this chapter, or similar reserves for the protection of marine life established under chapter 190, HRS, as amended as listed in Appendix D dated July 1, 2014, entitled "Class AA, Open Coastal Waters", located at the end of this chapter; or in the refuges or sanctuaries established by the U.S. Fish and Wildlife Service or the National Marine Fisheries Service[.]as listed in Appendix D dated July 1, 2014, entitled "Class AA, Open Coastal Waters", located at the end of this chapter.
- (B) Class A - All other open coastal waters not otherwise specified.
- (3) The following criteria are specific for all open coastal waters, excluding those described in subsection (d). (Note that criteria for open coastal waters differ, based on fresh water discharge.)

<u>Parameter</u>	Geometric mean not to exceed the <u>given value</u>	Not to exceed the given value more than <u>ten per cent of the time</u>	Not to exceed the given value more than two per cent of <u>the time</u>
Total Nitrogen (ug N/L)	150.00* 110.00**	250.00* 180.00**	350.00* 250.00**
Ammonia Nitrogen (ug NH ₄ -N/L)	3.50* 2.00**	8.50* 5.00**	15.00* 9.00**
Nitrate + Nitrite Nitrogen (ug [NO ₃ +NO ₂]-N/L)	5.00* 3.50**	14.00* 10.00**	25.00* 20.00**
Total Phosphorus (ug P/L)	20.00* 16.00**	40.00* 30.00**	60.00* 45.00**
Light Extinction Coefficient (k units)	0.20* 0.10**	0.50* 0.30**	0.85* 0.55**
Chlorophyll a ug/L)	0.30* 0.15**	0.90* 0.50**	1.75* 1.00**
Turbidity (N.T.U.)	0.50* 0.20**	1.25* 0.50**	2.00* 1.00**

* "Wet" criteria apply when the open coastal waters receive more than three million gallons per day of fresh water discharge per shoreline mile.

** "Dry" criteria apply when the open coastal waters receive less than three million gallons per day of fresh water discharge per shoreline mile.

Applicable to both "wet" and "dry" conditions:

pH Units - shall not deviate more than 0.5 units from a value of 8.1, except at coastal locations where and when freshwater from stream, stormdrain or groundwater discharge may depress the pH to a minimum level of 7.0.

Dissolved Oxygen - Not less than seventy-five per cent saturation, determined as a function of ambient water temperature and salinity.

Temperature - Shall not vary more than one degree Celsius from ambient conditions.

Salinity - Shall not vary more than ten per cent from natural or seasonal changes considering hydrologic input and oceanographic factors.

k units = the ratio of light measured at the water's surface to light measured at a particular depth.

L = liter

Light Extinction Coefficient is only required for dischargers who have obtained a waiver pursuant to section 301(h) of the Federal Water Pollution Control Act of 1972 (33 U.S.C. 1251), as amended, and are required by EPA to monitor it.

N.T.U. = Nephelometric Turbidity Units. A comparison of the intensity of light scattered by the sample under defined conditions with the intensity of light scattered by a standard reference suspension under the same conditions. The higher the intensity of scattered light, the higher the turbidity.

ug = microgram or 0.000001 grams

- (c) Oceanic waters.
- (1) As used in this subsection: "Oceanic waters" means all other marine waters outside of the 183 meter (600 feet or 100 fathom) depth contour.
- (2) Water areas to be protected: Class A - All oceanic waters.
- (3) The following criteria are specific for oceanic waters:

<u>Parameter</u>	Geometric mean not to exceed the <u>given value</u>	Not to exceed The given value more than ten per cent <u>of the time</u>	Not to exceed the given value more than two per cent of <u>the time</u> 100.00
Total Nitrogen (ug N/L)	50.00	80.00	
Ammonia Nitrogen (ug NH ₄ -N/L)	1.00	1.75	2.50

<u>Parameter</u>	Geometric mean not to exceed the <u>given value</u>	Not to exceed The given value more than <u>ten per cent of the time</u>	Not to exceed the given value more than <u>two per cent of the time</u>
Nitrate + Nitrite Nitrogen (ug [NO ₃ +NO ₂]-N/L)	1.50	2.50	3.50
Total Phosphorus (ug P/L)	10.00	18.00	25.00
Chlorophyll a (ug/L)	0.06	0.12	0.20
Turbidity (N.T.U.)	0.03	0.10	0.20

L = liter

N.T.U. = Nephelometric Turbidity Units. A comparison of the intensity of light scattered by the sample under defined conditions with the intensity of light scattered by a standard reference suspension under the same conditions. The higher the intensity of scattered light, the higher the turbidity.

ug = microgram or 0.000001 grams

pH Units - shall not deviate more than 0.5 units from a value of 8.1.

Dissolved Oxygen - Not less than seventy-five per cent saturation, determined as a function of ambient water temperature and salinity.

Temperature - shall not vary more than one degree Celsius from ambient conditions.

Salinity - Shall not vary more than ten per cent from natural or seasonal changes considering hydrologic input and oceanographic factors.

(d) Area-specific criteria for the Kona (west) coast of the island of Hawaii.

- (1) For all marine waters of the island of Hawaii from Loa Point, South Kona District, clockwise to Malae Point, North Kona District, excluding Kawaihae Harbor and

Honokohau Harbor, and for all areas from the shoreline at mean lower low water to a distance 1000 m seaward:

- (A) In areas where nearshore marine water salinity is greater than 32.00 parts per thousand the following specific criteria apply:

<u>Parameter</u>	<u>Geometric mean not to exceed the given single value</u>
Total Dissolved Nitrogen (ug N/L)	100.00
Nitrate + Nitrite Nitrogen (ug [NO ₃ +NO ₂]-N/L)	4.50
Total Dissolved Phosphorus (ug P/L)	12.50
Phosphate (ug PO ₄ - P/L)	5.00
Ammonia Nitrogen (ug NH ₄ - N/L)	2.50
Chlorophyll a (ug/L)	0.30
Turbidity (N.T.U.)	0.10

* Specific criteria for Class A embayments apply to Honokohau Harbor and Kawaihae Harbor, see section 11-54-6(a)(3).

- (B) If nearshore marine water salinity is less than or equal to 32.00 parts per thousand the following parameters shall be related to salinity on the basis of a linear least squares regression equation:

$$Y = MX + B$$

where:

Y = parameter concentration(in ug/L)

X = salinity (in ppt)

M = regression coefficient (or "slope")

B = constant (or "Y intercept").

The absolute value of the upper 95 per cent confidence limit for the calculated sample regression coefficient (M) shall not exceed the absolute value of the following values:

<u>Parameter</u>	<u>M</u>
Nitrate and Nitrite Nitrogen (ug [NO3 + NO2]-N/L)	-31.92
Total Dissolved Nitrogen (ug N/L)	-40.35
Phosphate (ug PO4 - P/L)	-3.22
Total Dissolved Phosphorus (ug P/L)	-2.86

The specific criteria for ammonia nitrogen, chlorophyll a, and turbidity given in clause (i) also apply.

- (C) Parameter concentrations shall be determined along a horizontal transect extending seaward from a shoreline sample location using the following method: water samples shall be obtained at distances of 1, 10, 50, 100, and 500 meters from the shoreline sampling location. Samples shall be collected within one meter of the water surface and below the air-water interface. Dissolved nutrient samples shall be filtered through media with particle

size retention of 0.7 um. This sampling protocol shall be replicated not less than three times on different days over a period not to exceed fourteen days during dry weather conditions. The geometric means of sample measurements for corresponding offshore distances shall be used for regression calculations.

pH Units - shall not deviate more than 0.5 units from a value of 8.1, except at coastal locations where and when freshwater from stream, stormdrain or groundwater discharge may depress the pH to a minimum level of 7.0.

Dissolved Oxygen - Not less than seventy-five per cent saturation, determined as a function of ambient water temperature and salinity.

Temperature - Shall not vary more than one degree Celsius from ambient conditions.

Salinity - Shall not vary more than ten per cent from natural or seasonal changes considering hydrologic input and oceanographic factors.

L - liter

N.T.U. - Nephelometric Turbidity Units. A comparison of the intensity of light scattered by the sample under defined conditions with the intensity of light scattered by a standard reference suspension under the same conditions. The higher the intensity of scattered light, the higher the turbidity.

ug - microgram or 0.000001 grams. [Eff 11/12/82; am and comp 10/6/84; am and comp 04/14/88; am and comp 01/18/90; am and comp 10/29/92, am and comp 04/17/00; am and comp 10/2/04; comp 06/15/09; comp 10/21/12; am and comp 12/6/13; am and comp] (Auth: HRS §§342D-1, 342D-4, 342D-5, Ch. 342E) (Imp: HRS §§342D-4, 342D-5, Ch. 342E)

§11-54-7 Uses and specific criteria applicable to marine bottom types. (a) Sand beaches.

- (1) As used in this subsection:
"Sand beaches" means shoreline composed of the weathered calcareous remains of marine algae and animals (white sand), the weathered remains of volcanic tuff (olivine), or the weathered remains of lava (black sand). Associated animals are largely burrowers and are related to particle grain size, slope, and color of the beach.
- (2) Water areas to be protected:
 - (A) Class I - All beaches on the Northwestern Hawaiian Islands. These islands comprise that portion of the Hawaiian archipelago which lies northwest of the island of Kauai and is part of the State of Hawaii; including Nihoa Island, Necker Island, French Frigate Shoals, Brooks Banks, Gardiner Pinnacles, Dowsett and Maro Reef, Laysan Island, Lisianski Island, Pearl and Hermes Atoll, Gambia Shoal, and Kure Atoll.
 - (B) Class II - All beaches not in Class I.
- (3) The following criteria are specific to sand beaches:
 - (A) Episodic deposits of flood-borne sediment shall not occur in quantities exceeding an equivalent thickness of ten millimeters (0.40 inches) twenty-four hours after a heavy rainstorm.
 - (B) Oxidation - reduction potential (EH) in the uppermost ten centimeters (four inches of sediment shall not be less than +100 millivolts
 - (C) No more than fifty per cent of the grain size distribution of sediment shall be smaller than 0.125 millimeters in diameter.

- (b) Lava rock shoreline and solution benches.
- (1) As used in this subsection:
 - "Lava rock shorelines" means sea cliffs and other vertical rock faces, horizontal basalts, volcanic tuff beaches, and boulder beaches formed by rocks falling from above or deposited by storm waves. Associated plants and animals are adapted to the harsh physical environment and are distinctly zoned to the degree of wave exposure.
 - "Solution benches" means sea level platforms developed on upraised reef or solidified beach rock by the erosive action of waves and rains. Solution benches are distinguished by a thick algal turf and conspicuous zonation of plants and animals.
- (2) Water areas to be protected:
 - (A) Class I - All lava rock shorelines and solution benches in preserves, reserves, sanctuaries, and refuges established by the department of land and natural resources under chapter 195 or chapter 190, HRS, or similar reserves for the protection of marine life established under chapter 190, HRS, as amended; or in refuges or sanctuaries established by the U.S. Fish and Wildlife Service or the National Marine Fisheries Service.
 - (B) Class II
 - (i) All other lava rock shorelines not in Class I.
 - (ii) The following solution benches:

<u>Maui</u>	<u>Oahu</u>
Kihei	Diamond Head
Papaula Point	Manana Island
	Makapuu
<u>Kauai</u>	Laie
Near Hanapepe	Kahuku
Salt Ponds	Mokuleia
Milolii	Makua
Nualolo	Makaha
Makaha	Maile
Mahaulepu	Lualualei
Kuhio Beach Park (Kukuiula)	Barbers Point

- (3) The following criteria are specific to lava rock shorelines and solution benches:
- (A) Episodic deposits of flood-borne sediment shall not occur in quantities exceeding an equivalent thickness of five millimeters (0.20 inches) for longer than twenty-four hours after a heavy rainstorm.
 - (B) The director shall determine parameters, measures, and criteria for bottom biological communities which may be affected by proposed actions. The location and boundaries of each bottom-type class will be clarified when situations require their identification. For example, when a discharge permit is applied for or a waiver pursuant to section 301(h) of the Federal Water Pollution Control Act (33 U.S.C. Section 1311) is required. Permanent benchmark stations may be required where necessary for monitoring purposes. The water quality standards for this subsection shall be deemed to be met if time series surveys of benchmark stations indicate no relative changes in the relevant biological

communities, as noted by biological community indicators or by indicator organisms which may be applicable to the specific site.

- (c) Marine pools and protected coves.
 - (1) As used in this subsection:
 - "Marine pools" means waters which collect in depressions on sea level lava rock outcrops and solution benches and also behind large boulders fronting the sea. Pools farthest from the ocean have harsher environments and less frequent renewal of water and support fewer animals. Those closest to the ocean are frequently renewed with water, are essentially marine, and support more diverse fauna.
 - "Protected coves" means small inlets which are removed from heavy wave action or surge.
 - (2) Water areas to be protected.
 - (A) Class I.
 - (i) All marine pools and protected coves in preserves, reserves, sanctuaries, and refuges established by the department of land and natural resources under chapter 195 or chapter 190, HRS, or similar reserves for the protection of marine life established under chapter 190, HRS, as amended; or in refuges or sanctuaries established by the U.S. Fish and Wildlife Service or the National Fisheries Service.
 - (ii) Hawaii
Honaunau
Kiholo

(B) Class II.

<u>Hawaii</u>	<u>Maui</u>
Kalapana	Hana
Pohakuloa	Keanae
Kapalaoa	Napili
Kapoho	Puu Olai to
King's Landing	Cape
(Papai)	Hanamanioa
Hilo	Kipahulu
Leileiwi Point	
Wailua Bay	<u>Molokai</u>
	Cape Halawa
	Kalaupapa
	South Coast

Oahu
Diamond Head
Halona Blowhole to Makapuu
Mokuleia
Kaena Point
Makua
Punaluu

Kauai
Kealia
Mahaulepu
Hanamaulu
Poipu
Puolo Point

- (3) The following criteria are specific to marine pools and protected coves:
- (A) In marine pools and coves with sand bottoms, oxidation-reduction potential (EH) in the uppermost ten centimeters (four inches) of sediment shall not be less than +100 millivolts.
 - (B) In marine pools and coves with sand bottoms, no more than fifty per cent of the grain size distribution of the sediment shall be smaller than 0.125 millimeters in diameter.

- (C) Episodic deposits of flood-borne soil sediment shall not occur in quantities exceeding equivalent thicknesses for longer than twenty-four hours following a heavy rainstorm according to the following:
 - (i) No thicker than an equivalent of five millimeters (0.20 inches) on hard bottoms (other than living corals).
 - (ii) No thicker than an equivalent of ten millimeters (0.40 inches) on soft bottoms.
- (D) The director shall determine parameters, measures, and criteria for bottom biological communities which may be affected by proposed actions. Permanent benchmark stations may be required where necessary for monitoring purposes. The water quality standards for this subsection shall be deemed to be met if time series surveys of benchmark stations indicate no relative changes in the relevant biological communities, as noted by biological community indicators or by indicator organisms which may be applicable to the specific site.
- (d) Artificial basins.
 - (1) As used in this subsection:

"Artificial basins" means dredged or quarried channels or harbors, and harbor-associated submerged structures. Many organisms can attach to the vertical structures, but the soft, shifting sediment bottoms of harbors may only be colonized by a few hardy or transient species.
 - (2) Class II water areas to be protected are as follows:
 - (A) Shallow draft harbors:

Hawaii

Wailoa River Boat
Harbor
Mahukona Harbor
Keauhou Harbor
Kailua-Kona Harbor
Honokohau Boat Harbor
Kawaihae Boat Harbor

Maui

Maalaea Boat
Harbor
Lahaina Boat
Harbor
Hana Harbor

Lanai

Manele Boat
Harbor
Kaunalapau
Harbor

Molokai

Kalaupapa Anchorage
Kaunakakai Small Boat Harbor
Hale o Lono Harbor

Oahu

Heeia Kea Boat Harbor
Kaneohe Marine Corps Air Station
Kaneohe Yacht Club
Hawaii Kai Marina (Kuapa Pond)
Pokai Bay
Waianae Boat Harbor
Keehi Marine Center
La Mariana Sailing Club
Haleiwa Harbor
Makani Kai Marina
Keehi Boat Harbor
Ala Wai Boat Harbor:
 Ala Wai Fuel Dock
 Hawaii Yacht Club
 Waikiki Yacht Club
Ko Olina

Kauai

Nawiliwili Small Boat Harbor
Kukuiula Boat Harbor
Kikiaola Boat Harbor
Port Allen Boat Harbor

(B) Deep draft commercial harbors:

Hawaii

Kuhio Bay (Hilo Harbor)
Kawaihae Deep Draft Harbor

Maui

Kahului Harbor

Molokai

Kaunakakai Barge Harbor

Oahu

Honolulu Harbor
Barbers Point Harbor
Kewalo Basin

Kauai

Nawiliwili Harbor
Port Allen Harbor

- (3) Specific criterion to be applied -
Oxidation-reduction potential (EH) in the
uppermost ten centimeters (four inches) of
sediment shall not be less than -100
millivolts.
- (e) Reef flats and reef communities.
- (1) As used in this subsection:
"Nearshore reef flats" means shallow
platforms of reef rock, rubble, and sand
extending from the shoreline. Smaller,
younger flats projected out as semicircular
aprons while older, larger flats form wide
continuous platforms. Associated animals
are mollusks, echinoderms, worms,
crustaceans (many living beneath the
surface), and reef-building corals.
"Offshore reef flats" means shallow,
submerged platforms of reef rock and sand
between depths of zero to three meters (zero
to ten feet) which are separated from the
shoreline of high volcanic islands by

lagoons or ocean expanses. Dominant organisms are bottom-dwelling algae. Biological composition is extremely variable. There are three types: patch, barrier, and atoll reef flats; quite different from one another structurally. The presence of heavier wave action, water more oceanic in character, and the relative absence of terrigenous influences distinguish offshore reef flats.

"Protected reef communities" means hard bottom aggregations, including scattered sand channels and patches, dominated by living coral thickets, mounds, or platforms. They are found at depths of ten to thirty meters (thirty-two to ninety-six feet) along protected leeward coasts or in shallow water (up to sea level) in sheltered lagoons behind atoll or barrier reefs and in the calm reaches of bays or coves.

"Wave-exposed reef communities" means aggregations, including scattered sand channels and patches, dominated by corals. They may be found at depths up to forty meters (approximately one hundred thirty feet) along coasts subject to continuous or heavy wave action and surge. Wave-exposed reef communities are dominated biologically by benthic algae, reef-building corals, and echinoderms.

(2) Water areas to be protected:

(A) Class I.

- (i) All reef flats and reef communities in preserves, reserves, sanctuaries, and refuges established by the department of land and natural resources under chapter 195 or chapter 190, HRS, or similar reserves for the protection of marine life under chapter 190, HRS, as amended; or

- in refuges or sanctuaries established by the U.S. Fish and Wildlife Service or the National Marine Fisheries Service;
- (ii) Nearshore reef flats:
- | | |
|------------------------|--------------|
| <u>Hawaii</u> | <u>Maui</u> |
| Puako | Honolua |
| <u>Lanai</u> | <u>Oahu</u> |
| Northwest Lanai Reef | Hanauma Bay |
| <u>Molokai</u> | <u>Kauai</u> |
| Western Kalaupapa | Nualolokai |
| Southeast Molokai Reef | Hanalei |
| Honomuni Harbor | (Anini to |
| Kulaalamihī Fishpond | Haena) |
- (iii) Offshore reef flats:
- Moku o Loe (Coconut Island, Kaneohe Bay, Oahu)
- Kure Atoll
- Pearl and Hermes Atoll
- Lisianski Island
- Laysan Island
- Maro Reef
- French Frigate Shoals
- (iv) Wave exposed reef communities:
- Hawaii
- 1823 Lava Flow (Punaluu)
- 1840 Lava Flow (North Puna)
- 1868 Lava Flow (South Point)
- 1887 Lava Flow (South Point)
- 1955 Lava Flow (South Puna)
- 1960 Lava Flow (Kapoho)
- 1969 Lava Flow (Apuna Point)
- 1970 Lava Flow (Apuna Point)
- 1971 Lava Flow (Apuna Point)
- 1972 Lava Flow (Apuna Point)
- 1973 Lava Flow (Apuna Point)
- Maui
- Hana Bay

Makuleia Bay (Honolua)

Molokini Island

All wave exposed reef communities

Molokai

Moanui Kahinapohaku Waikolu -

Kalawao

Halawa Bay

Oahu

Sharks Cove (Pupukea)

Moku Manu (Islands)

Outer Hanauma Bay

Waimea Bay

Kawela Bay

Kahana Bay

Kauai

Ke`e Beach

Poipu Beach

Kipu Beach

Niihau

All wave exposed communities

Lehua (off Niihau)

All wave exposed communities

(v) Protected reef communities:

Hawaii

Puako

Honaunau

Kealakekua

Kiholo

Anaehoomalu

Hapuna

Kahaluu Bay

Keaweula (North Kohala)

Milolii Bay to Keawaiki

Kailua-Kaiwi (Kona)

Onomea Bay
1801 Lava Flow (Keahole or Kiholo)
1850 Lava Flow (South Kona)
1859 Lava Flow (Kiholo)
1919 Lava Flow (Milolii)
1926 Lava Flow (Milolii)

Maui
Honolua

Ahihi-La Perouse (including 1790
Lava Flow at Cape Kinau)

Molokini Island
All protected reef communities

Lanai
Manele
Hulopoe

<u>Molokai</u>	<u>Oahu</u>
Southeast Molokai	Hanauma Bay
Kalaupapa	Moku o Loe
Honomuni Harbor	(Coconut Island, Kaneohe Bay)

Kauai
Hoai Bay (Poipu)

Northwestern Hawaiian Islands
Kure Atoll Lagoon
Pearl and Hermes Lagoon
Lisianski Lagoon
Maro Reef Lagoon
French Frigate Shoals Lagoon

(B) Class II.

- (i) Existing or planned harbors may be located within nearshore reef flats showing degraded habitats and only where feasible alternatives are lacking and upon written approval by the director,

considering environmental impact and the public interest pursuant to section 342D-6, HRS.

Hawaii

Blonde Reef (Hilo Harbor)
Kawaihae Small Boat Harbor

Maui

Lahaina Harbor
Kahului Harbor

Lanai

Manele

Molokai

Kaunakakai Harbor
Hale o Lono Harbor
Palaau (2.4 kilometers/1.5 mile,
east of Pakanaka Fishpond)

Oahu

Keehi Boat Harbor
Ala Moana Reef
Honolulu Harbor
Heeia Harbor
Kaneohe Yacht Club
Ala Wai Harbor
Haleiwa Boat Harbor
Maunalua Bay
Pearl Harbor
Kaneohe Bay
Kahe

All other nearshore reef flats not in Class I;

(ii) Offshore reef flats:

Oahu

Kapapa Barrier Reef
Kaneohe Patch Reefs (Kaneohe Bay)

(iii) All other wave exposed or protected reef communities not in Class I.

(3) Specific criteria to be applied to all reef flats and reef communities: No action shall be undertaken which would substantially risk

damage, impairment, or alteration of the biological characteristics of the areas named herein. When a determination of substantial risk is made by the director, the action shall be declared to be contrary to the public interest and no other permits shall be issued pursuant to chapter 342D, HRS.

- (A) Oxidation-reduction potential (EH) in the uppermost ten centimeters (four inches) of sand patches shall not be less than +100 millivolts;
- (B) No more than fifty per cent of the grain size distribution of sand patches shall be smaller than 0.125 millimeters in diameter;
- (C) Episodic deposits of flood-borne soil sediment shall not occur in quantities exceeding equivalent thicknesses for longer than twenty-four hours after a heavy rainstorm as follows:
 - (i) No thicker than an equivalent of two millimeters (0.08 inches) on living coral surfaces;
 - (ii) No thicker than an equivalent of five millimeters (0.2 inches) on other hard bottoms;
 - (iii) No thicker than an equivalent of ten millimeters (0.4 inches) on soft bottoms;
- (D) The director shall determine parameters, measures, and criteria for bottom biological communities which may be affected by proposed actions. The location and boundaries of each bottom-type class shall be clarified when situations require their identification. For example, the location and boundaries shall be clarified when a discharge permit is applied for or a waiver pursuant to

Section 301(h) of the Federal Water Pollution Control Act of 1972 (33 U.S.C. 1251 et seq.) is required. Permanent benchmark stations may be required where necessary for monitoring purposes. The water quality standards for this subsection shall be deemed to be met if time series surveys of benchmark stations indicate no relative changes in the relevant biological communities, as noted by biological community indicators or by indicator organisms which may be applicable to the specific site.

- (f) Soft bottom communities.
- (1) As used in this subsection:
 - "Soft bottom communities" means poorly described and "patchy" communities, mostly of burrowing organisms, living in deposits at depths between two to forty meters (approximately six to one hundred thirty feet). The particle size of sediment, depth below sea level, and degree of water movement and associated sediment turnover dictate the composition of animals which rework the bottom with burrows, trails, tracks, ripples, hummocks, and depressions.
 - (2) Water areas to be protected:
 - Class II - All soft bottom communities.
 - (3) Specific criteria to be applied - Oxidation-reduction potential (EH) in the uppermost ten centimeters (four inches) of sediment should not be less than -100 millivolts. The location and boundaries of each bottom-type class shall be clarified when situations require their identification. For example, the location and boundaries shall be clarified when a discharge permit is applied for or a waiver pursuant to Section 301(h) of the Act is required. [Eff 11/12/82; am and comp 10/6/84; am and comp

04/14/88; am and comp 01/18/90; am and comp
10/29/92, am and comp 04/17/00; am and comp
10/2/04; comp 06/15/09; comp 10/21/12; am
and comp 12/6/13; comp](Auth:
HRS §§342D-1, 342D-4, 342D-5, Ch. 342E)
(Imp: HRS §§342D-4, 342D-5, Ch. 342E)

§11-54-8 [Specific criteria for recreational
areas].Recreational criteria for all State waters.

(a) These criteria are designed to protect the public
from exposure to harmful levels of pathogens while
participating in water-contact activities. The
specific criteria for enterococcus shall be expressed
in colony forming units (CFU) per one hundred
milliliters or as a most probable number (MPN) per one
hundred milliliters, as specified by the analytical
method used.[In inland recreational waters:

- (1) Enterococcus content shall not exceed a geometric mean of 33 per one hundred milliliters in not less than five samples which shall be spaced to cover a period between twenty five and thirty days. No single sample shall exceed the single sample maximum of 89 CFU per 100 milliliters or the site-specific one-sided 82 per cent confidence limit.
- (2) Inland recreational waters in which enterococcus content does not exceed the standard shall not be lowered in quality.
- (3) At locations where sampling is less frequent than five samples per twenty-five to thirty days, no single sample shall exceed the single sample maximum nor shall the geometric mean of these samples taken during the 30-day period exceed 33 CFU per 100 milliliters.
- (4) Raw or inadequately treated sewage, sewage for which the degree of treatment is unknown, or other pollutants of public health significance, as determined by the director of health, shall not be present in

natural public swimming, bathing or wading areas. Warning signs shall be posted at locations where human sewage has been identified as temporarily contributing to the enterococcus count.

- (b) In marine recreational waters:
 - (1) Within 300 meters (one thousand feet) of the shoreline, including natural public bathing or wading areas, enterococcus content shall not exceed a geometric mean of 35 CFU per 100 milliliters in not less than five samples which shall be spaced to cover a period between twenty-five and thirty days. No single sample shall exceed the single sample maximum of 104 CFU per 100 milliliters or the site-specific one-sided 75 per cent confidence limit. Marine recreational waters along sections of coastline where enterococcus content does not exceed the standard, as shown by the geometric mean test described above, shall not be lowered in quality.
 - (2) (2) At locations where sampling is less frequent than five samples per twenty-five to thirty days, no single sample shall exceed the single sample maximum nor shall the geometric mean of these samples taken during the thirty-day period exceed 35 CFU per 100 milliliters.]

(b) Enterococcus content shall not exceed a geometric mean of 35 colony forming units per one hundred milliliters over any thirty day interval.

(c) A Statistical Threshold Value (STV) of 130 per one hundred milliliters shall be used for enterococcus. The STV shall not be exceeded by more than ten percent of samples taken within the same thirty day interval in which the geometric mean is calculated.

(d) State waters in which enterococcus content does not exceed the standard shall not be lowered in quality.

[(3)](e) Raw or inadequately treated sewage, sewage for which the degree of treatment is unknown, or other pollutants of public health significance, as determined by the director of health, shall not be present in natural public swimming, bathing or wading areas. Warning signs shall be posted at locations where human sewage has been identified as temporarily contributing to the enterococcus count. [Eff 11/12/82; am and comp 10/6/84; am and comp 04/14/88; am and comp 01/18/90; am and comp 10/29/92, am and comp 04/17/00; am and comp 10/2/04; am and comp 06/15/09; comp 10/21/12; am and comp 12/6/13; am and comp] (Auth: HRS §§342D-1, 342D-4, 342D-5, Ch. 342E) (Imp: HRS §§342D-4, 342D-5, Ch. 342E)

§11-54-9 Zones of mixing. (a) As used in this section, "zones of mixing" means limited areas around outfalls and other facilities to allow for the initial dilution of waste discharges.

(b) Zones of mixing for the assimilation of domestic, agricultural, and industrial discharges which have received the best degree of treatment or control are recognized as being necessary. It is the objective of these limited zones to provide for a current realistic means of control over the placement and manner of discharges or emissions so as to achieve the highest attainable level of water quality or otherwise to achieve the minimum environmental impact considering initial dilution, dispersion, and reactions from substances which may be considered to be pollutants.

(c) Establishment, renewal, and termination.

(1) Application for establishment of a zone of mixing shall be made concurrently with any discharge permits whenever applicable and the conditions of a zone of mixing shall be incorporated as conditions of the discharge permits. Every application for a zone of

mixing shall be made on forms furnished by the director and shall be accompanied by a complete and detailed description of present conditions, how present conditions do not conform to standards, and other information as the director may prescribe.

- (2) Each application for a zone of mixing shall be reviewed in light of the descriptions, statements, plans, histories, and other supporting information as may be submitted upon the request of the director, and in light of the effect or probable effect upon water quality standards established pursuant to this chapter.
- (3) Whenever an application is approved, the director shall establish the zone of mixing, taking into account the environmental impact, including but not limited to factors such as the protected uses of the body of water, existing natural conditions of the receiving water, character of the effluent, and the adequacy of the design of the outfall and diffuser system to achieve maximum dispersion and assimilation of the treated or controlled waste with a minimum of undesirable or noticeable effect on the receiving water.
- (4) Approval of a zone of mixing shall be made either after a public hearing is held by the director in the county where the source is situated, in accordance with chapters 91 and 92, HRS and the rules of practice and procedures of the department, or after the public notification and comment process duly established for a discharge permit in the case when the zone of mixing is being considered concurrently with the discharge permit.
- (5) No zone of mixing shall be established by the director unless the application and the supporting information clearly show that:

- (A) The continuation of the function or operation involved in the discharge by the granting of the zone of mixing is in the public interest;
 - (B) The discharge occurring or proposed to occur does not substantially endanger human health or safety;
 - (C) Compliance with the existing water quality standards from which a zone of mixing is sought would produce serious hardships without equal or greater benefits to the public; and
 - (D) The discharge occurring or proposed to occur does not violate the basic standards applicable to all waters, will not unreasonably interfere with any actual or probable use of the water areas for which it is classified, and has received (or in the case of a proposed discharge will receive) the best degree of treatment or control.
- (6) Any zone of mixing or renewal thereof shall be established within the requirements of this section and for time periods and under conditions consistent with the reasons therefore and within the following limitations:
- (A) If the zone of mixing is established on the grounds that there is no reasonable means known or available for the adequate prevention, control, or abatement of the discharge involved, it shall be allowed only until the necessary means for prevention, control or abatement become practicable, and subject to the taking of any substitute or alternative measures that the director may prescribe. No renewal of a zone of mixing established under this subsection shall be allowed without a thorough review of known and available

- means of preventing, controlling, or abating the discharge involved;
- (B) The director may issue a zone of mixing for a period not exceeding five years;
 - (C) Every zone of mixing established under this section shall include, but not be limited to, conditions requiring the applicant to perform appropriate effluent and receiving water sampling including monitoring of bottom biological communities and report the results of each sampling to the director. A program of research to develop reasonable alternatives to the methods of treatment or control in use by the applicant may be required if research is deemed prudent by the director; and
 - (D) In order to prevent high temperature discharges from violating section 11-54-04(a)(4), no new or increased domestic, industrial, or other controllable source shall discharge at a maximum temperature which will cause temperatures to exceed three degrees Celsius above ambient, or thirty degrees Celsius, whichever is less, within one meter of the bottom within a zone of mixing. For discharges with or without submerged outfalls, the director may make a limited allowance for higher discharge temperatures if there is satisfactory demonstration that the elevated temperature will not cause damage to the local aquatic community.
- (7) Any zone of mixing established pursuant to this section may be renewed from time to time on terms and conditions and for periods not exceeding five years which would be appropriate on initial establishment of a

zone of mixing, provided that the applicant for renewal had met all of the conditions specified in the immediately preceding mixing, and provided further that the renewal and the zone of mixing established in pursuance thereof shall provide for the discharge not greater in quantity of mass emissions than that attained pursuant to the terms of the immediately preceding zone of mixing at its expiration. Any new zones of mixing or requests for zone of mixing renewals for wastewater treatment plants (WWTP) performing primary treatment shall comply with section 301(h) of the Federal Water Pollution Control Act of 1972 (33 U.S.C. 1251). No renewal shall be allowed except upon application. Any renewal application shall be made at least one hundred and eighty days prior to the expiration of the zone of mixing.

- (8) No zone of mixing established pursuant to this part shall be construed to prevent or limit the application of any emergency provisions and procedures provided by law.
- (9) The establishment of any zone of mixing shall be subject to the concurrence of the U.S. Environmental Protection Agency.
- (10) Each mixing zone may be subject to revocation, suspension, or modification if, after notice and opportunity for a hearing pursuant to chapter 91, HRS and the rules of practice and procedures of the department, the director determines that the terms specified in section 342D-6, HRS have been violated. In taking any action, the director may consider operating records, compliance investigations, or other information regarding discharge quality or impact on receiving waters. The action shall be effected by giving written notice to the

permittee, which shall contain the reasons for the action.

- (11) The director shall be notified within thirty days of the permanent discontinuance of a discharge. The zone of mixing shall terminate thirty days after such notification has been received.
- (12) Upon expiration of the period stated in the designation, the zone of mixing shall automatically terminate and no rights shall become vested in the designee. [Eff 11/12/82; am and comp 10/6/84; am and comp 04/14/88; am and comp 01/18/90; am and comp 10/29/92, am and comp 04/17/00; am and comp 10/2/04; comp 06/15/09; comp 10/21/12; am and comp 12/6/13; comp]
(Auth: HRS §§342D-1, 342D-4, 342D-5) (Imp: HRS §§342D-4, 342D-5)

§11-54-9.1 Water quality certification. As used in sections 11-54-9.1.01 to 11-54-9.1.10:

"33 CFR" means the Code of Federal Regulations, Title 33, Corps of Engineers, Department of the Army, Department of Defense, revised as of July 1, 2011, unless otherwise specified.

"40 CFR" means the Code of Federal Regulations, Title 40, Protection of the Environment, revised as of July 1, 2011, unless otherwise specified.

"Act" means the Clean Water Act (formerly referred to as the Federal Water Pollution Control Act or Federal Water Pollution Control Act Amendments of 1972) Public Law 92-500, as amended by Public Law 95-217, Public Law 95-483 and Public Law 97-117, 33 U.S.C. section 1251 et. seq.

"Agent" means a duly authorized representative of the owner as defined in section 11-55-7(b).

"Discharge" means the same thing as defined in Section 502(16) of the Act.

"Discharge of a pollutant" and "discharge of pollutants" means the same thing as defined in section 502(12) of the Act.

"Duly authorized representative" means a person or position as defined in 40 CFR section 122.22(b).

"License or permit" means any permit, certificate, approval, registration, charter, membership, statutory exemption or other form of permission granted by an agency of the federal government to conduct any activity which may result in any discharge into navigable waters.

"Licensing or permitting agency" means any agency of the federal government to which a federal application is made for a "license or permit."

"Navigable waters" means the waters of the United States, including the territorial seas.

"Owner" means the person who owns any "facility" or "activity" which results in any discharge into navigable waters.

"Pollutant" means the same thing as defined in section 502(6) of the Act.

"Territorial seas" means the belt of the seas measured from the line of ordinary low water along that portion of the coast which is in direct contact with the open sea and the line marking the seaward limit of inland waters, and extending seaward a distance of three miles.

"Water quality certification" or "certification" means a statement which asserts that a proposed discharge resulting from an activity will not violate applicable water quality standards and the applicable provisions of sections 301, 302, 303, 306 and 307 of the Act. A water quality certification is required by section 401 of the Act from any applicant for a federal license or permit to conduct any activity, including the construction or operation of facilities which may result in any discharge into navigable waters.

"Water quality certification application" means any forms provided by the director for use in obtaining the water quality certification.

"Water quality standards" means standards established pursuant to section 10(c) of the Act, and

state-adopted water quality standards for navigable waters which are not interstate waters.

"Waters of the United States" or "waters of the U.S." means:

- (1) All waters which are currently used, were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters which are subject to the ebb and flow of the tide;
- (2) All interstate waters, including interstate "wetlands";
- (3) All other waters such as intrastate lakes, rivers, streams (including intermittent streams), mudflats, sandflats, "wetlands," sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds the use, degradation, or destruction of which would affect or could affect interstate or foreign commerce including any such waters:
 - (A) Which are or could be used by interstate or foreign travelers for recreational or other purposes;
 - (B) From which fish or shellfish are or could be taken and sold in interstate or foreign commerce; or
 - (C) Which are used or could be used for industrial purposes by industries in interstate commerce;
- (4) All impoundments of waters otherwise defined as waters of the United States under this definition;
- (5) Tributaries of waters identified in paragraphs (1) through (4) of this definition;
- (6) The territorial sea; and
- (7) "Wetlands" adjacent to waters (other than waters that are themselves wetlands) identified in paragraphs (1) through (6) of this definition. [Eff and comp 04/14/88; am and comp 01/18/90; am and comp 10/29/92; am and comp 04/17/00; am and comp 10/2/04; comp

06/15/09; comp 10/21/12; am and comp
12/6/13; comp_] (Auth: HRS
§§342D-4, 342D-5, 342D-53) (Imp: HRS
§§342D-4, 342D-5, 342D-6)

§11-54-9.1.01 Water quality certification;
contents of certification. (a) A certification made
by the department shall include:

- (1) The legal name(s), street address, contact person's name and position title, and telephone and fax numbers of the owner and, if applicable, its duly authorized representative;
- (2) A statement that the director has either:
 - (A) Examined the application made by the owner or its duly authorized representative to the licensing or permitting agency (specifically identifying the number or code affixed to the application) and bases its certification upon an evaluation of the information contained in the application which is relevant to water quality considerations; or
 - (B) Examined other information provided by the owner or its duly authorized representative sufficient to permit the director to make the statement described in paragraph (a)(3);
- (3) A statement that there is reasonable assurance that the activity will be conducted in a manner which will not violate applicable water quality standards;
- (4) A statement of any conditions which the director considers necessary or desirable with respect to the discharge resulting from an activity; and
- (5) Other information the director determines to be appropriate.

(b) The director shall issue the certification after evaluating the complete water quality certification application, comments received during the public comment period, any record of a public hearing held pursuant to section 11-54-09.1.03, other information and data the director considers relevant, and after the director determines that there is reasonable assurance that applicable water quality standards will not be violated and the best practicable methods of control will be applied to a discharge resulting from an activity including the construction and operation of a facility

(c) The department shall process applications for permits and water quality certifications for the reconstruction, restoration, repair, or reuse of any Hawaiian fishpond that meets the requirements of chapter 183B, HRS, before all other permits and certifications. The director shall render a decision on the completeness of any application for the permit or water quality certification within thirty days of receipt. Applications for fishpond reconstruction, restoration, or repair that are incomplete shall be denied without prejudice. The director shall render a decision on any complete application for a permit or water quality certification for any fishpond within one hundred fifty days.

(d) The director, at the director's discretion or after consideration of information presented by the owner or its duly authorized representative, the licensing or permitting agency, other government agencies, or interested parties, may modify or revoke an issued certification or waiver. [Eff and comp 4/14/88; am and comp 01/18/90; am and comp 10/29/92; am and comp 04/17/00; am and comp 10/2/04; comp 06/15/09; comp 10/21/12; am and comp 12/6/13; comp] (Auth: HRS §§342D-4, 342D-5, 342D6.5, 342D-53) (Imp: HRS §§342D-342D-6, 342D6.5, 342D-5)§11-54-09.1.02

§11-54-9.1.02 Water quality certification;
contents of water quality certification application.

(a) The owner or its duly authorized representative shall submit a complete water quality certification application for the discharge resulting from an activity. The water quality certification application shall include at a minimum:

- (1) The legal name(s), street address, contact person's name and position title, and telephone and fax numbers of the owner and, if applicable, its duly authorized representative;
- (2) The company or organization name, contact person's name and position title, and telephone and fax numbers of the emergency contact(s);
- (3) The name, street address, contact person's name and position title, telephone and fax numbers, island, and tax map key number(s) for the project;
- (4) Associated existing or pending federal and environmental permits and corresponding file numbers;
- (5) The name(s) of the navigable water where the discharge occurs, the latitude and longitude of the discharge point(s), the classification of the navigable water, and the associated existing recreational uses;
- (6) The scope of work or a description of the overall project including: the construction or operation of facilities which may result in discharges into navigable waters; the proposed discharge resulting from an activity; and specific biological, chemical, physical, thermal, and other pertinent characteristics of the discharge resulting from an activity;
- (7) If applicable, a description of the function and operation of equipment or facilities to control discharges, including specification of the methods of control to be used;

- (8) The estimated dates on which the activity will begin and end and the date or dates on which the discharge(s) will take place;
- (9) If applicable, a description of the methods and means being used or proposed to monitor the quality and characteristics of the discharge and the operation of equipment or facilities employed in the control of the proposed discharges and a map showing the location(s) of the monitoring point(s);
- (10) The statement of assurance, statement of choice for publication, and if applicable, an authorization statement, with the owner's original signature. Any signatures required for the water quality certification application shall be provided as described in 40 CFR Section 122.22(a);
- (11) Supporting documentation (e.g. maps, plans, specifications, copies of associated federal permits or licenses, federal applications, Environmental Assessments or Environmental Impact Statements, as applicable, etc.);
- (12) Additional information regarding any irregularities or unique features of the project; and
- (13) Additional information as required by the director.

(b) The director shall notify the owner or its duly authorized representative in writing if a water quality certification application is incomplete or otherwise deficient. A description of the additional information necessary to complete the water quality certification application or to correct the deficiency shall be included in the written notice. If a water quality certification application is incomplete or otherwise deficient, processing of the water quality certification application shall not be completed until the time the owner or its duly authorized representative has supplied the information or otherwise corrected the deficiency. Failure to provide additional information or to correct a

deficiency shall be sufficient grounds for denial of the certification or termination of the processing of the water quality certification application.

(c) The director shall notify the owner or its duly authorized representative in writing when a water quality certification application is considered complete. The director shall act on a request for certification within a period which shall not exceed one year from the date when the water quality certification application was considered complete.

(d) The owner or its duly authorized representative shall notify the department in writing of changes which may affect the water quality certification application and certification process.

(e) Each owner who submits a water quality certification application shall pay a filing fee of \$1,000. This filing fee shall be submitted with the water quality certification application and shall not be refunded nor applied to any subsequent water quality certification application following final action of denial or termination of the processing of the water quality certification application.

- (1) Fees shall be made payable to the "State of Hawaii" in the form of a cashier's check or money order;
- (2) Water quality certification application(s) submitted by the U.S. Army Corps of Engineers, Honolulu Engineer District, for the purpose of adopting regional or nationwide general permit(s), in accordance with 33 CFR Parts 325 and 330, respectively, shall be exempt from the payment of filing fees.

(f) If a project or activity requiring a federal permit or license involves or may involve the discharge of a pollutant or pollutants and is initiated or completed without a water quality certification, the director may process an after-the-fact water quality certification application as follows: after-the-fact water quality certification application.

may be accepted and processed only for the limited purpose of deeming projects or activities requiring federal permits or licenses to be properly permitted or licensed forward of the date of the water quality certification or waiver. No water quality certification or waiver shall be issued which allows the retroactive permitting or licensing of projects or activities before the date the water quality certification or waiver was issued. A water quality certification or waiver may be issued if the following criteria are met:

- (1) The project or activity is not the subject of an ongoing enforcement action by the federal, state or county government;
- (2) Any adverse impacts upon water quality resulting from the project or activity have been mitigated to the maximum extent feasible; and
- (3) The project or activity will not cause or contribute to any lack of attainment of water quality standards set forth in this chapter.

(g) Written notification by the department under subsection (b) is complete upon mailing or sending a facsimile transmission of the document or actual receipt of the document by the owner or its duly authorized representative. [Eff and comp 04/14/88; am and comp 01/18/90; am and comp 10/29/92; am and comp 04/17/00; am and comp 10/2/04; comp 06/15/09; comp 10/21/12; am and comp 12/6/13; comp]
(Auth: HRS §§342D-4, 342D-5, 342D-53) (Imp: HRS §§342D-4, 342D-5, 342D-6)

§11-54-9.1.03 Water quality certification; notice and hearing. The director may provide the opportunity for public comment or hearing(s) or both to consider the issuance of a water quality certification. A notice shall be published in accordance with chapters 91 and 92, HRS. The director

shall inform the owner or its duly authorized representative in writing that the action has been taken. All publication and mailing costs associated with the public notification of the director's tentative determinations with respect to the water quality certification application shall be paid by the owner to the appropriate newspaper agency or agencies determined by the director. Failure to provide and pay for public notification, as considered appropriate by the director, may result in a delay in the certification process. [Eff and comp 04/14/88; am and comp 01/18/90; am and comp 10/29/92; am and comp 04/17/00; am and comp 10/2/04; comp 06/15/09; comp 10/21/12; comp 12/6/13; comp] (Auth: HRS §§342D-4, 342D-5, 342D-53) (Imp: HRS §§342D-4, 342D-5, 342D-6)

§11-54-9.1.04 Water quality certification; waiver. (a) If the director fails or refuses to act on a request for certification within one year after receipt of a complete water quality certification application, then the certification requirements of section 11-54-9.1 shall be waived with respect to the federal application.

(b) If the discharge resulting from an activity receives a determination to be covered under a nationwide permit authorization, thereby fulfilling specific conditions of that permit pursuant to 33 CFR sections 330.4, 330.5, and 330.6, then the director will determine, on a case-by-case basis, which projects are considered minor and non-controversial. Certification requirements of section 11-54-9.1 shall be waived for minor and non-controversial activities within one year of receipt of a complete water quality certification application. [Eff and comp 04/14/88; am and comp 01/18/90; am and comp 10/29/92; am and comp 04/17/00; am and comp 10/2/04; comp 06/15/09; comp 10/21/12; am and comp 12/6/13; comp]

(Auth: HRS §§342D-4, 342D-5, 342D-53) (Imp: HRS §§342D-4, 342D-5, 342D-6)

§11-54-9.1.05 Water quality certification;
adoption of new water quality standards.

(a) The licensee or permittee shall comply with any new water quality standards as adopted by the department.

(b) In any case where:

- (1) A certification or waiver was issued without applicable water quality standards;
- (2) Water quality standards applicable to the waters into which the activity may discharge are subsequently established before the activity is completed; or
- (3) The director determines that the activity is violating new water quality standards;

The director shall then notify the licensee or permittee and the licensing or permitting agency of the violation.

(c) If the licensee or permittee fails within one hundred eighty days of the date of the notice to cease the violation, the director shall notify the licensing or permitting agency that the licensee or permittee has failed to comply with the standards. The director, at the director's discretion, shall also revoke the certification or waiver or recommend suspension of the applicable license or permit pursuant to section 401 of the Act.

(d) The director shall notify the licensing or permitting agency that, in the director's opinion, there is reasonable assurance that applicable water quality standards will not be violated because the licensee or permittee took appropriate action to comply with the applicable water quality standards after their license or permit was suspended pursuant to subsection (c).

(e) This section shall not preclude the department from taking other enforcement action authorized by law. [Eff and comp 04/14/88; am and comp 01/18/90; am and comp 10/29/92; am and comp 04/17/00; am and comp 10/2/04; comp 06/15/09; comp 10/21/12; am and comp 12/6/13; comp](Auth: HRS §§342D-4, 342D-5, 342D-53s)(Imp: HRS §§342D-4, 342D-5, 342D-6)

§11-54-9.1.06 Water quality certification; inspection of facility or activity before operation. Where any facility or activity has received certification or waiver pursuant to sections 11-54-9.1.01 to 11-54-9.1.09 in connection with the issuance of a license or permit for construction, and where the facility or activity is not required to obtain an operating license or permit, the director, prior to the initial operation of the facility or activity, shall be afforded the opportunity to inspect the facility or activity for the purpose of determining if the manner in which the facility or activity will be operated or conducted will violate applicable water quality standards. [Eff and comp 04/14/88; am and comp 01/18/90; am and comp 10/29/92; am and comp 04/17/00; am and comp 10/2/04; comp 06/15/09; comp 10/21/12; comp 12/6/13; comp] Auth: HRS §§342D-4, 342D-5, 342D-53) (Imp: HRS §§342D-4, 342D-5, 342D-6)

§11-54-9.1.07 Water quality certification; notification to licensing or permitting agency. If the director, after an inspection pursuant to section 11-54-9.1.06 determines that operation of the proposed facility or activity will violate applicable water quality standards, the director shall so notify the owner or, if applicable, its duly authorized representative and the licensing or permitting agency.

[Eff and comp 04/14/88; am and comp 01/18/90; am and comp 10/29/92; am and comp 04/17/00; am and comp 10/2/04; comp 06/15/09; comp 10/21/12; comp 12/6/13; comp] (Auth: HRS §§342D-4, 342D-5, 342D-53) (Imp: HRS §§342D-4, 342D-5, 342D-6)

§11-54-9.1.08 Water quality certification; termination or suspension. Where a licensing or permitting agency, following a public hearing, suspends a license or permit after receiving the director's notice and recommendation pursuant to section 11-54-9.1.07 the owner or its duly authorized representative may submit evidence to the director, that the facility or activity has been modified so as not to violate applicable water quality standards. If the director determines that the applicable water quality standards have not been and will not be violated, the director shall so notify the licensing or permitting agency. [Eff and comp 04/14/88; am and comp 01/18/90; am and comp 10/29/92; am and comp 04/17/00; am and comp 10/2/04; comp 06/15/09; comp 10/21/12; comp 12/6/13; comp] (Auth: HRS §§342D-4, 342D-5, 342D-53) (Imp: HRS §§342D-4, 342D-5, 342D-6)

§11-54-9.1.09 Water quality certification; review and advice. The director may, and upon request shall, provide licensing and permitting agencies with determinations, definitions, and interpretations to the meaning and content of state water quality standards. The director may, and upon request shall, also advise licensing and permitting agencies of the status of compliance by the owner(s) of a water quality certification with the conditions and requirements of applicable water quality standards.

[Eff and comp 04/14/88; am and comp 01/18/90; am and comp 10/29/92; am and comp 04/17/00; am and comp 10/2/04; comp 06/15/09; comp 10/21/12; comp 12/6/13; comp](Auth: HRS §§342D-4, 342D-5, 342D-53) (Imp: HRS §§342D-4, 342D-5, 342D-6)

§11-54-10 Water quality analyses. (a) Laboratory analysis shall be performed by a laboratory approved by the department.

(b) Where applicable, analysis to determine compliance with these rules shall be by:

<u>Parameter</u>	<u>Reference</u>
Sample Collection (Phytoplankton and other Bioassays)	Standard Methods for the Examination of Water and Waste Water, twenty first edition, APHA
Sample Preservation and Holding Time, Bacteriological and Chemical Methodology	"Guidelines Establishing Test Procedures for the Analysis of Pollutants," Federal Register, July 1, 2011 (40 CFR 136)
	"A Manual of Chemical and Biological Methods for Seawater Analysis" T.R. Parsons, Y. Maita, and C.M. Lalli, 1984, Pergamon Press, New York.
	"Methods of Seawater Analysis", 2nd, Revised and Extended Edition, ed. by K. Grashof, M. Erhardt, K. Kremling, 1983. Verlag Chemie, Weinheim, Germany.

Toxicity Test

EPA 821-R-02-031, Short-Term Methods For Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms, 4th edition, October 2002.

or:

EPA 821-R-02-012, Methods For Measuring the Acute Toxicity of Effluents and Receiving waters to Freshwater and Marine Organisms, 5th edition, October 2002.

or:

EPA 821-R-02-014, Short-Term Methods For Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Estuarine Organisms, 3rd edition, October 2002.

or:

EPA 833-R-10-003, National Pollutant Discharge Elimination System Test of Significant Toxicity Implementation Document, June 2010.

or:

EPA 833-R-10-004, National Pollutant Discharge

Elimination System Test of
Significant Toxicity
Technical Document, June
2010.

or:

EPA/600/R-12/022, Tropical
Collector Urchin,
Tripneustes gratilla,
Fertilization Test Method,
April 2012.

Quality Control
(Bacteriological and
Biology) and Chemistry

EPA/600/4-79-019, Handbook
for Analytical Quality
Control in Water and
Wastewater Laboratories,
March 1979.

Kona Coast Area Specific
Standards

Rationale for the
Development of Area-
Specific Water Quality
Criteria for the West Coast
of The Island of Hawaii and
Procedures for Their Use.
Hawaii State Department of
Health. March 1997.

or as otherwise previously specified or approved by
the director. [Eff 11/12/82; am and comp 10/6/84; am
and comp 04/14/88; am and comp 01/18/90; am and comp
10/29/92, am and comp 04/17/00; am and comp 10/2/04;
comp 06/15/09; comp 10/21/12; am and comp 12/6/13;
comp] (Auth: HRS §§342D-1, 342D-4,
342D-5, Ch. 342E) (Imp: HRS §§342D-4, 342D-5, Ch.
342E)

§11-54-11 Schedule of compliance. (a) The director may issue a schedule of compliance in an individual NPDES permit for the implementation of effluent limits derived from the water quality criteria in this chapter if the director makes a finding that the discharger cannot immediately comply with the water quality based effluent limitations upon the effective grant of the permit.

(b) A schedule of compliance may be included in an individual NPDES permit issued by the director pursuant to chapter 342D, HRS.

(c) A schedule of compliance in an NPDES permit is allowed only for water quality-based effluent limits based upon a new, revised, or newly interpreted water quality standard and must:

(1) Comply with the provisions in 40 CFR section 122.47, revised as of July 1, 2012, and;

(2) Include an enforceable final effluent limitation that is within the timeframe allowed as specified in sections 11-55-08(a)(1)(b), 11-55-15(d), 11-55-21, 11-55-22, 11-55-23(10), and 11-55-34.07(3)(B).

(d) A schedule of compliance that exceeds one year in duration must set forth interim requirements and a date by which the required water quality criteria must be achieved. [Eff and comp]

Auth: HRS §§342D-4, 342D-5, 342D-53, Ch. 342E) (Imp: HRS §§342D-4, 342D-5, 342D-6, Ch. 342E)

§11-54-12 Intake credits. (a) As used in this section:

"Background pollutant concentration" means the water body concentration immediately upstream/upcurrent of a permitted discharge, regardless of whether those pollutants are natural or result from anthropogenic upstream activity.

"Intake pollutant" means the background pollutant concentration that is present in the intake water body, which must be the same water body as the

receiving water for the discharge at the time it is withdrawn from such waters.

"Same body of water" means an intake pollutant is considered to be from the "same body of water" as the discharge if the department finds that the intake pollutant would have reached the vicinity of the outfall point in the receiving water within a reasonable period of time had it not been removed by the permittee. This finding may be deemed established if:

- (1) The background pollutant concentration in the receiving water (excluding any amount of the pollutant in the facility's discharge) is similar to that in the intake water; and
- (2) There is a direct hydrologic connection between the intake and discharge points; and
- (3) Water quality characteristics (e.g. temperature, pH, hardness) are similar in the intake and receiving waters.

The department may consider other site-specific factors relevant to the transport and fate of the pollutant in deciding whether a pollutant would or would not have reached the vicinity of the outfall point in the receiving water within a reasonable period had it not been removed by the permittee.

(b) The director may, upon request of the discharger, adjust water quality-based effluent limitations or standards to reflect credit for intake pollutants in the discharger's intake water only:

- (1) To the extent necessary to meet the applicable limitation or standard, up to a maximum value equal to the intake pollutant value; and
- (2) If there is no net increase in the concentration of the intake pollutant for which the credit is given. A discharger may add to the mass of the background pollutant concentration if an equal or greater mass is removed prior to discharge, so there is no net addition of the pollutant in the discharge compared to the intake water.

(c) Intake credit is not applicable to any pollutant for which a Total Maximum Daily Load (TMDL) and waste load allocation (WLA) have been developed and have been approved by the U.S. Environmental Protection Agency unless the TMDL and WLA provide for such an intake credit.

(d) The director shall grant credit for water quality-based effluent limits only if:

- (1) One hundred per cent of the intake water containing the intake pollutant is withdrawn from the same body of water into which the discharge is made;
- (2) The facility does not chemically or physically alter the intake pollutant in a manner that would cause adverse water quality impacts to occur that would not occur if the pollutant was left in-stream;
- (3) The timing and location of the discharge would not cause adverse water quality impacts to occur that would not occur if the intake pollutant were left in-stream; and,
- (4) The director finds that the discharge of intake pollutants into the same body of water will not adversely impact narrative or numeric water quality criteria specified in this chapter.

(e) Effluent limitations must be established so that they comply with all other applicable state and federal laws and regulations including water quality-based requirements and anti-degradation policies.

(f) All requests for the establishment of credit for intake pollutants shall be made on forms furnished by the department and shall be accompanied by:

- (1) Documentation showing a complete and detailed description of present conditions and how present conditions do not conform to standards; and
- (2) Documentation showing that the intake and discharge waterbodies are the "same body of water;" and

- (3) Documentation showing that pollutant(s) for which credits are being request actually come(s) from the intake water.
- (g) Credit for intake pollutants shall be specified in the discharger's NPDES permit and shall become effective with the department's issuance of the permit for the specified permittee.
- (1) All permits that include intake credits issued by the department shall include monitoring of all influent, effluent, and ambient water to demonstrate that the conditions in this section are maintained during the permit term.
- (2) All credit for intake pollutants developed under this section shall be re-evaluated upon permit renewal.
- (h) Credit for intake pollutants established under this section apply in the vicinity of the discharge for purposes of establishing permit limits for a specified pollutant for the specified permittee.
- (i) All other water quality criteria established under this chapter continue to apply. [Eff and comp] Auth: HRS §§342D-4, 342D-5, 342D-53, Ch. 342E) (Imp: HRS §§342D-4, 342D-5, 342D-6, Ch. 342E)

§11-54-[11]13 Revision. These water quality criteria are based upon the best currently available data. Studies made in connection with the implementation program may suggest improvements to this chapter. For this reason, the chapter will be subject to periodic review and, where necessary, to change. Any change will be made only after public hearing, held in compliance with chapter 91, HRS and the rules of practice and procedures of the department. [Eff 11/12/82; am and comp 10/6/84; am and comp 04/14/88; am and comp 01/18/90; am and comp 10/29/92, am and comp 04/17/00; am and comp 10/2/04; comp 06/15/09; comp 10/21/12; comp 12/6/13; am and

comp] (Auth: HRS §§342D-1, 342D-4, 342D-5, Ch. 342E) (Imp: HRS §§342D-4, 342D-5, Ch. 342E)

§11-54-[12]14 Severability. If any provisions of this chapter, or the application thereof to any person or circumstances, is held invalid, the invalidity does not affect other provisions or application of this chapter which can be given effect without the invalid provision or application, and to this end the provisions of this chapter are severable. [Eff 11/12/82; am and comp 10/6/84; am and comp 04/14/88; am and comp 01/18/90; am and comp 10/29/92, am and comp 04/17/00; am and comp 10/2/04; comp 06/15/09; comp 10/21/12; comp 12/6/13; am and comp] (Auth: HRS §§342D-1, 342D-4, 342D-5, Ch. 342E) (Imp: HRS §§342D-4, 342D-5, Ch. 342E)

§11-54-15 Field citations; non-compliance.
(a) This section authorizes field citations to effectively and quickly settle easily verifiable violations of chapter 342D, HRS, and this chapter. Settlements under this section are an additional remedy and do not supplant the director's authority to issue orders under section 342D-9, HRS.

(b) Offer to settle.

(1) A field citation is an offer to settle an administrative case against a specific violation on a specific day. Instead of issuing a formal notice and finding of violation and order, the director may, in the director's sole discretion, through any authorized employee, issue a field citation by personal service or certified mail to:

(A) Any person who discharges or otherwise causes or allows water pollutants to enter State waters and cause violation of this chapter, unless that person acted in compliance with a permit or variance issued by the director pursuant to chapter 342D for that person's discharges;

(B) Any person who fails to correctly install, implement, maintain, or repair site best management practices as called for in this chapter;

(C) Any person who violates monitoring requirements as required by the director;

(D) Any person who violates record keeping requirements as required by the director.

(2) A field citation shall indicate the following amounts for violations:

(A) \$500 for any person who violates paragraph (a)(1)(A), (B), or (C) for first violation, and \$2,000 for a subsequent violation; and

(B) \$100 for any person who violates paragraph (a)(1)(D) for first violation, and \$200 for a subsequent violation.

(c) Resolution of field citation.

(1) A person issued a field citation may accept the citation by:

(A) Signing the field citation;

- (B) Paying the full amount indicated on the field citation. Payment shall be made to the "State of Hawaii" in the form of a pre-printed check, cashier's check, money order, or as otherwise specified by the director;
 - (C) Mailing or delivering the signed citation and full payment to the clean water branch in Honolulu or to the district health office for the county where the violation occurred. The department must receive the signed field citation and full payment within twenty days after the person receives the field citation; and
 - (D) Correction within seven (7) days, or unless otherwise specified on the field citation, of the violation of this chapter.
- (2) By signing the field citation, the person to whom it was issued agrees to:
- (A) Give up the right to a contested case hearing under chapter 91 or 342D, HRS, or otherwise challenge the field citation;
 - (B) Pay the full amount indicated; and
 - (C) Correct the violation.
- (3) If the field citation is not accepted in compliance with paragraph (1), the director may seek for that cited violation any remedies available under this chapter; chapter 342D, HRS; or any other law. For all other violations the director retains authority to seek any available remedies.
- (d) Form of citation. The department shall prescribe a field citation form. [Eff and compiled] (Auth: HRS §§342D-1, 342D-4, 342D-5, Ch. 342E) (Imp: HRS §§342D-4, 342D-5, Ch. 342E)

2. Material, except source notes, to be repealed is bracketed. New material is underscored.

3. Additions to update source notes to reflect these amendments and compilation are not underscored.

4. These amendments to and compilation of chapter 11-54, Hawaii Administrative Rules, shall take effect ten days after filing with the Office of the Lieutenant Governor.

I certify that the foregoing are copies of the rules, drafted in the Ramseyer format pursuant to the requirements of section 91-4.1, Hawaii Revised Statutes, which were adopted on _____ and filed with the Office of the Lieutenant Governor.

LINDA ROSEN, M.D.
M.P.H.
Director of Health

APPROVED AS TO FORM:

EDWARD G. BOHLEN
Deputy Attorney General

Appendix A

July 1, 2014

Class 1, Inland Waters

Hawaii

Akaka Falls State Park
Hakalau Forest National Wildlife Refuge
Hakalau Forest National Wildlife Refuge South Kona Section
Hamakua Forest Reserve (Hoea Kaa Section)
Hamakua Forest Reserve (Kainehe Section)
Hamakua Forest Reserve (Kalopa Section)
Hamakua Forest Reserve (Paauilo Section)
Hapuna Beach State Recreation Area
Hawaii Volcanoes National Park
Hilo Forest Reserve (Humuula Section)
Hilo Forest Reserve (Laupahoehoe Section)
Kahaualea Natural Area Reserve
Kalopa State Rec. Area
Keaoi Islet Sea Bird Sanctuary
Kekaha Kai State Park
Kipahoehoe Natural Area Reserve
Kohala Forest Reserve (Pololu Section)
Kohala Historical Sites State Monument
Kona Hema Preserve (Nature Conservancy)
Lapakahi State Historical Park
Laupahoehoe Natural Area Reserve
Lava Tree State Monument
Mackenzie State Recreation Area
Manowaialee Forest Reserve
Manuka Natural Area Reserve
Manuka State Wayside
Mauna Kea Ice Age Natural Area Reserve
Mauna Kea State Recreation Area/Mauna Kea Fr
Mokupuku Islet Sea Bird Sanctuary
Ookala Cooperative Game Management Area
Paokalani Islet Sea Bird Sanctuary
Puu Honau O Honaunau National Historical Park
Puu Waawaa Forest Bird Sanctuary
Puu Waawaa Forest Reserve
Puukohola Heiau National Historic Site
Wailoa River State Recreation Area
Wailuku River State Park

Kauai

Ahukini State Recreation Pier
Haena State Park
Hanalei National Wildlife Refuge
Kilauea Point National Wildlife Refuge
Kuia Natural Area Reserve
Mokuaeeae Rock Islet Sea Bird Sanctuary
Na Pali Coast State Wilderness Park
Polihale State Park
Russian Fort Elizabeth State Historical Park
Wailua River State Park
Waimea Canyon State Park
Waimea State Recreation Pier

Lanai

Moku Naio Sea Bird Sanctuary
Nanahoa Islets Sea Bird Sanctuary
Poopoo Islet Sea Bird Sanctuary
Puupehe Islet Sea Bird Sanctuary

Maui

Ahihi-Kinohiwa Natural Area Reserve
Alau Island Sea Bird Sanctuary
Haleakala National Park
Halekii-Pihana Heiaus State Monument
Hanawi Natural Area Reserve
Iao Valley State Monument
Kanaha Pond Wildlife Sanctuary
Kanaio Natural Area Reserve
Kaumahina State Wayside
Kealia Pond National Wildlife Refuge
Keopuka Islet Sea Bird Sanctuary
Makena State Park
Mokeehia Islet Sea Bird Sanctuary
Moku Hala Sea Bird Sanctuary
Moku Mana Islet Sea Bird Sanctuary
Molokini Sea Bird Sanctuary
Papanui O Kane Islet Sea Bird Sanctuary
Pauwulu Point Wildlife Sanctuary
Polipoli Spring State Recreation Area

Puaa Kaa State Wayside
Puuku Island Sea Bird Sanctuary
Waianapanapa State Park
Wailua Valley State Wayside
West Maui Natural Area Reserve (Honokowai Section)
West Maui Natural Area Reserve (Lihau Section)
West Maui Natural Area Reserve (Panaewa Section)

Molokai

Huelo Islet Sea Bird Sanctuary
Kakahaia National Wildlife Refuge
Kalaupapa National Historical Park
Kamiloloa Plant Sanctuary
Kanaha Rock Sea Bird Sanctuary
Mokapu Islet Sea Bird Sanctuary
Mokumanu Islet Sea Bird Sanctuary
Molokai Forest Reserve
Okala Islet Sea Bird Sanctuary

Niihau

Kaula Island Sea Bird Sanctuary
Lehua Island Sea Bird Sanctuary

Oahu

Aiea Bay State Recreation Area
Diamond Head State Monument
Hamakua Marsh Wildlife Sanctuary
James Campbell National Wildlife Refuge (Kii)
Kaohikaipu Island Sea Bird Sanctuary
Kawainui Marsh Wildlife Sanctuary (Proposed)
Keaiwa Heiau State Recreation Area
Kekepa Island Sea Bird Sanctuary
Kukaniloko Birthstones State Monument
Kukuihoolua Island Sea Bird Sanctuary
Makiki Valley State Recreation Area
Malaekahana State Recreation Area
Mokualai Island Sea Bird Sanctuary
Mokuauia Island Sea Bird Sanctuary
Mokulua Island Sea Bird Sanctuary
Mokumanu Islet Sea Bird Sanctuary
Oahu Forest National Wildlife Refuge

Chapter 11-54

Pahole Natural Area Reserve
Paiko Lagoon Wildlife Sanctuary
Pearl Harbor National Wildlife Refuge (Mid Loch)
Pearl Harbor National Wildlife Refuge (W Loch)
Pearl Harbor Nat'l Wildlife Refuge (Kalaeloa)
Popoia Island Sea Bird Sanctuary
Pouhala Marsh Wildlife Sanctuary
Pulemoku Rock Sea Bird Sanctuary
Puu Ualakaa State Park
Royal Mausoleum State Monument
Sacred Falls State Park
Sand Island State Recreation Area
Ulu Po Heiau State Monument
Waiahole Forest Reserve (Waiahole Section)
Waianae Kai Forest Reserve

Appendix B

July 1, 2014

Class AA, Marine Waters and Embayments

Hawaii

Puako Bay

Waiulua Bay

Anaehoomalu Bay

Kiholo Bay

Kailua Harbor

Kealakekua Bay

Honaunau Bay

Oahu

Waialua Bay

Kahana Bay

Kaneohe Bay

Hanauma Bay

Kauai

Hanalei Bay

Appendix C

July 1, 2014

Class A, Marine Waters and Embayments

Hawaii

Hilo Bay (inside breakwater)
Kawaihae Boat Harbor
Honokohau Boat Harbor
Keauhou Bay

Maui

Kahului Bay
Lahaina Boat Harbor
Maalaea Boat Harbor

Lanai

Manele Boat Harbor
Kaunalapau Harbor

Molokai

Hale o Lono Harbor
Kaunakakai Harbor
Kaunakakai Boat Harbor

Oahu

Kaiaka Bay
Paiko Peninsula to Koko Head
Ala Wai Boat Harbor
Kewalo Basin
Honolulu Harbor
Keehi Lagoon
Barbers Point Harbor
Pokai Bay
Heeia Kea Boat Harbor
Waianae Boat Harbor
Haleiwa Boat Harbor
Ko Olina

Kauai

Hanamaulu Bay
Nawiliwili Bay
Kukuiula Bay
Wahiawa Bay
Hanapepe Bay (inside breakwater)
Kikiaola Boat Harbor
Port Allen Boat Harbor

Appendix D

July 1, 2014

Class AA, Open Coastal Waters

Measured in a clockwise direction from the first-named to the second-named location, where applicable):

Hawaii

The open coastal waters from Leleiwi Point to Waiulaula Point.

Maui

The open coastal waters between Nakalele Point and Waihee Point and between Huelo Point and Puu Olai.

Kahoolawe

All open coastal water surrounding the island.

Lanai

All open coastal waters surrounding the island.

Molokai

The open coastal waters between the westerly boundary of Hale o Lono Harbor to Lamaloa Head. Also, the open coastal waters from Cape Halawa to the easterly boundary of Kaunakakai Harbor.

Oahu

Waimanalo Bay from the southerly boundary of Kaiona Beach Park, and including the waters surrounding Manana and Kaohikaipu Islands, to Makapuu Point. Also, Waialua Bay from Kaiaka Point to Puaena Point, and the open coastal waters along Kaena Point between a distance of 5.6 kilometers (3.5 miles) from Kaena Point towards Makua and 5.6 kilometers (3.5 miles) from Kaena Point toward Mokuleia.

Kauai

The open coastal waters between Hikimoe Valley and Makahoa Point. Also, the open coastal waters between Makahuena Point and the westerly boundary of Hoai Bay.

Niihau

All open coastal waters surrounding the island.

All other islands of the state

All open coastal waters surrounding the islands not classified in Appendix D or 11-54-6(b)(2)(A).