

# 2018 STATE OF HAWAII WATER QUALITY MONITORING AND ASSESSMENT REPORT:

Integrated Report to the U.S. Environmental Protection Agency and the U.S. Congress  
Pursuant to §303(d) and §305(b), Clean Water Act (P.L. 97-117)



The Hawaii State Department of Health  
Clean Water Branch  
Honolulu, Hawaii  
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## List of Acronyms

§	Section
AU	Assessment Unit
BEACH	Beaches Environmental Assessment and Coastal Health
CBD	Center of Biological Diversity
CCH	City and County of Honolulu
CCME	Canadian Council of Ministers of the Environment
CFU	Colony Forming Units
Ch.	Chapter
CWA	Clean Water Act
CWB	Clean Water Branch
CWRM	Commission on Water Resources Management
DLNR	Department of Land and Natural Resources
DMR	Discharge Monitoring Report
DOFAW	Division of Forestry and Wildlife
EAC	Environmental Assessment Company
EHASB	Environmental Health Analytical Services Branch
EMD	Environmental Management Division
EPA	United States Environmental Protection Agency
GM	Geometric Mean
GPS	Global Positioning System
HAR	Hawaii Administrative Rules
HIDOH	Hawaii Department of Health
IR	Integrated Report
MCS	Microbiology Consulting Services, LLC
MRC	Marine Research Consultants, Inc
NELHA	Natural Energy Laboratory of Hawaii Authority
NH <sub>4</sub>	Ammonium-Nitrogen
NO <sub>3</sub> +NO <sub>2</sub>	Nitrate + Nitrite - Nitrogen
NPDES	National Pollutant Discharge Elimination System
PO <sub>4</sub>	Orthophosphate
QAPP	Quality Assurance Project Plan
QAPrgP	Quality Assurance Program Plan
QA/QC	Quality Assurance/Quality Control
QMP	Quality Management Plan
SLD	State Laboratories Division
STORET	STorage and RETrieval
STV	Statistical Threshold Value
TDP	Total Dissolved Phosphorus
TDN	Total Dissolved Nitrogen
TMDL	Total Maximum Daily Loads
TN	Total Nitrogen
TP	Total Phosphorus
TSS	Total Suspended Solids
USACE	United States Army Corps of Engineers
WQC	Water Quality Certification

**WQS**  
**WWTP**

Water Quality Standard  
Wastewater Treatment Plant

## EXECUTIVE SUMMARY

The Hawaii State Department of Health is obligated by the Clean Water Act Sections 303(d) and 305(b) to report on the State's water quality on a two-year cycle. The CWA §305(b) requires states to describe the overall status of water quality statewide, and the extent to which water quality provides for the protection and propagation of a balanced population of shellfish, fish, and wildlife, and allows recreational activities in and on the water. The CWA §303(d) requires states to submit a list of waters that do not attain applicable water quality standards, plus a priority ranking of impaired waters for Total Maximum Daily Loads development based on the severity of pollution and the uses of the waters. The 2018 State of Hawaii Water Quality Monitoring and Assessment Report, known as the Integrated Report (IR), has been prepared to meet the requirements for CWA §303(d) and 305(b).

The IR informs the public on the status of marine and inland (streams and estuaries) water bodies and serves as a planning document to guide other CWA programs. The 2018 Integrated Report incorporates data collected from November 1, 2015 to October 31, 2017 to provide an updated snapshot of water body conditions throughout the State, and carries over the assessment results from previous Integrated Reports. Impaired waters—waters that do not meet the State's water quality standards (WQS)—in the Integrated Report may be targeted for further monitoring activities to develop Total Maximum Daily Loads, to plan and evaluate CWA §319 nonpoint source pollution control projects, and set requirements for National Pollutant Discharge Elimination System permits and §401 Water Quality Certifications. The Integrated Report not only identifies areas in need of restoration, but serves as a baseline to validate the State's efforts to improve water quality and eventually delist impaired waters that have been rehabilitated.

The 2018 Integrated Report follows a standardized assessment methodology for marine and inland waters that evaluates whether the assessment units meet the water quality standards for recreational use and the support of aquatic life. The assessment units that have been used historically consist primarily of points, stretches of beachline, stream segments, and waters located between two geographical locations. These are the same assessment units that are used to evaluate waters within the State during the 2018 IR; however, new assessment units are in the process of being created to allow for a more holistic view of State waters. The new assessment units will be primarily based upon the watersheds established by the State of Hawaii Commission on Water Resource Management (CWRM) and will provide a more uniform geographical reference for the Integrated Report scopes of assessment. This will be consistent with the collaborative framework for implementing the Clean Water Act Section 303(d) Program—*A Long-Term Vision for Assessment, Restoration and Protection under the Clean Water Act Section 303(d) Program* (Vision), announced in December 2013.

At the time this report was prepared, only the CWB watershed assessment units (AUs) established in the 2016 IR, had been created for marine waters located along the coastline. These assessment units are included in the overall assessment of State waters as part of the §305(b), but are not included on the §303(d) list of impaired waters to avoid duplicate listings. The pollutants assessed in this report include bacteria, turbidity, chlorophyll *a*, and nutrients (total nitrogen, nitrate+nitrite-nitrogen, ammonium-nitrogen, total phosphorus), and where applicable, total

dissolved nitrogen, total dissolved phosphorus, total suspended solids, and orthophosphate (Hawaii Administrative Rules Chapter 11-54-6(d)).

Assessment results show that of the 108 marine water bodies assessed, 88 do not attain water quality standards for at least one or more conventional pollutants. Turbidity was the leading cause of impairment for marine waters. This trend is similar to what was observed in previous Integrated Reports, and the Hawaii Department of Health (HIDOH) believes this may be due to polluted runoff entering nearshore waters. Nutrients are the second leading cause of water quality exceedances, with 66% of the marine assessments failing to meet water quality standards for one or more nutrients. This is followed by chlorophyll *a*, with 47% of marine assessments failing to meet water quality standards. Enterococci water quality criteria was met in 91% of the assessed marine waters.

The assessment resulted in 13 new listings and 22 delistings for marine waters. The majority of new listings are on Maui and Oahu, and the majority of delistings are on Hawaii. Turbidity was the pollutant most frequently listed during this IR cycle, which is consistent with previous IR reports.

Marine waters within the larger CWB watershed AUs are also assessed in this cycle. Of the 544 CWB watershed AUs, only 49 were assessed in this IR cycle. All the CWB watershed AUs that were assessed for nutrients did not meet at least one of the water quality standards for nutrients; however, only 10 of the assessed AUs were assessed for nutrients. Almost all (98%) of the assessed CWB watershed AUs failed to meet the water quality standard for turbidity, and only the water quality standard for chlorophyll *a* was met 62% of the time. The water quality standard for enterococci was met in 88% of the assessed CWB watershed AUs.

Five inland waters are assessed in this Integrated Report. Waioli Stream on Kauai is a new impairment listing in the 2018 Integrated Report and exceeds dry season water quality standards for turbidity and enterococci. Heeia Stream on Oahu currently attains all wet season water quality standards resulting in a delisting of NO<sub>3</sub>+NO<sub>2</sub>. Heeia Stream continues to not attain for TN and NO<sub>3</sub>+NO<sub>2</sub> dry season water quality standards. Waipa estuary and Hanalei River (end of Weke Road) on Kauai continue to not meet water quality standards for turbidity and enterococci. Pearl Harbor estuary on Oahu continues to meet the water quality standard for turbidity.



## PART A. INTRODUCTION

The purpose of the Integrated Report (IR) is to inform the public of the overall status of water quality statewide, describing the extent to which water quality provides for the protection and propagation of a balanced population of shellfish, fish, and wildlife, and allows recreational activities in and on the water. This report has been prepared to fulfill the requirements for State reporting pursuant to Clean Water Act (CWA) Section (§)303(d) and §305(b), which requires states to provide an assessment every two years on the quality of all their waters (§305(b)), and a list of those waters that are impaired or threatened (§303(d)). This document describes the methodology, datasets, and results used to develop the 2018 IR. The report is intended to guide future management actions for state waters, provide data for long term trend assessment, and document water quality improvements across the state.

The 2018 IR provides water quality assessment results for both marine and inland waters. The marine and inland assessment results are reported by assessment units where possible, and/or by individual sampling locations. The State is currently in the process of establishing assessment units for all state waters so that a more holistic assessment can be performed. Some data has been placed into assessment units (e.g., watershed assessment units), while other data is still assessed by individual sampling locations (e.g. off-shore sampling locations) where assessment units have not yet been established.

The assessment period covers a two-year time frame (November 2015 - October 2017), beginning where the 2016 IR assessment cycle ended (October 2015). As part of the IR process, the Hawaii Department of Health (HIDOH) solicited a request for water quality data in June 2017 and that closed on November 1, 2017 via the HIDOH Clean Water Branch (CWB) website and local newspapers. Similarly, a draft of the 2018 IR was provided for a 30-day public comment period from **May 28, 2018 through June 27, 2018**. HIDOH did not receive any comments regarding the 2018 IR within the comment period.

The 2018 IR document includes background information, a brief overview of the surface water monitoring and assessment program, and subsequent chapters describing the assessment methodologies and results used to determine the status of marine and inland waters. Chapter 1 describes the assessment methodology and results for marine waters, and documents changes since the 2016 IR. The inland water assessment methodology, results, and category changes are presented in Chapter 2. Chapter 3 summarizes the current status for all state surface waters.

Although an attempt was made to avoid technical jargon and unnecessary abbreviations, this is a technical report. Acronyms are listed in a table at the beginning of this report and where they first appear in text of the document. In addition, terms used in the report are also defined where they first appear in the text of the document.

## PART B. BACKGROUND

### B.1. Scope of Waters in the Integrated Report

The State of Hawaii contains approximately 303 miles of recreational shoreline, 3,326 miles of rivers and streams, 37 square miles of bays and harbors and 5 square miles of lakes and reservoirs. The health of Hawaii's inland and marine waters is vital to the communities for subsistence, cultural practices, and recreation. The State's economy is largely dependent on the quality of its shorelines and beaches, which provide opportunities for year-round recreational activities.

### B.2. Surface Water Pollution Control Programs

The HDOH, Clean Water Branch (CWB) is the state agency responsible for protecting and restoring surface water resources for human and environmental health. The CWB's mission is to protect the public health of residents and tourists who recreate in and on Hawaii's coastal and inland water resources, as well as to protect and restore coastal and inland waters for marine life and wildlife.

The CWB implements surface water pollution control programs delegated from the United States Environmental Protection Agency (EPA) in support of the Clean Water Act and the State's goals to protect and restore surface waters to fishable and swimmable standards for the purpose of protecting human and environmental health. The components addressed within the CWB include Water Quality Standards (WQS), Enforcement and Compliance, National Pollutant Discharge Elimination System (NPDES) permits, Water Quality Certifications (WQC), surface water quality monitoring and assessment, Total Maximum Daily Loads (TMDLs), and Polluted Runoff Control (PRC). These programs are intended to work in concert to ensure that Hawaii's surface water resources are protected and restored. In addition, the HDOH also addresses CWA components within the Safe Drinking Water Branch, which monitors and protects drinking water resources, and the Wastewater Branch, which administers engineering functions related to water pollution control and wastewater systems and treatment.

The State's objectives with regards to surface waters include 1) using an integrated approach to assess state water quality, and 2) addressing sources of water pollution through permits, TMDLs, and watershed based plans. More information on the responsibilities and organizational structure of the CWB can be found in the HDOH CWB Quality Assurance Program Plan.

#### B.2.1. Point Source Pollution Control

The CWB has been authorized to administer the state NPDES program for discharges to waters of the United States. The discharge permits are prepared in compliance with the CWA Section 402 and with Hawaii Administrative Rules Title 11, Chapters 54 and 55, and are designed to protect the quality of surface water within the State. These permits authorize the discharge of substances at concentrations that meet either technology or water quality based effluent limits, whichever is more stringent.

The CWB currently receives approximately \$1.7 million of federal funds and \$845,000 of state funds annually to administer the NPDES program. Under the NPDES program, the CWB regulates discharges of pollutants from point-sources, such as wastewater treatment plants, municipal separate storm sewer systems, and industrial dischargers. The issuance of permits and the enforcement of permit conditions aids in the protection of the quality of waters within the State. In areas where a total maximum daily load (TMDL) has been established, the permit conditions may be more stringent than the established water quality standards, aiding in the improvement of water quality.

### B.2.2. Total Maximum Daily Load Process

The TMDL process serves as a roadmap for water body restoration by focusing on improving water quality in impaired surface waters that have been included in the §303(d) list. A TMDL report determines the amount of each pollutant that the impaired water body can assimilate and still meet water quality standards and assigns load allocations to all identified point sources and non-point sources for each pollutant.

A TMDL is currently in preparation for the Waikele Watershed, and it is anticipated that this TMDL will be completed by the end of 2018. Following the completion of the Waikele Watershed TMDL, the creation of a TMDL for West Maui is currently scheduled to begin. It is anticipated that with the implementation of the TMDL water quality will improve within the watershed overtime.

### B.2.3. Non-Point Source Pollution Control

Nonpoint sources of pollution in the State primarily consist of cesspools, agricultural land use, urban land use, and feral ungulate activity in conservation lands. Cesspools discharge untreated human waste directly into the ground, where it can contaminate the ocean, streams, and groundwater by releasing nutrients and disease-causing bacteria and viruses. In agricultural areas, fertilizers, herbicides, pesticides, and soil erosion can lead to polluted runoff problems. In urban areas, roads, buildings, and parking lots often prevent rain water from soaking into the ground, which increases the volume of water runoff, increases erosion, and washes pollutants through storm drains into streams and the ocean. On conservation lands, feral ungulates disturb soil and destroy and uproot vegetation, resulting in soil erosion and sediment runoff.

The CWB receives approximately \$1.2 million in federal funds annually to address nonpoint pollution within the State through the Clean Water Act Section 319(h) grant program. The CWB addresses nonpoint source pollution through the Polluted Runoff Control (PRC) Program, which administers grant money it receives from the EPA to address polluted runoff. The PRC Program focuses its nonpoint source control projects in CWB priority watersheds (He'eia, Hanalei, and West Maui) and also implements projects to reduce and prevent nonpoint source pollution in other watersheds that have watershed-based plans. Significantly more resources are needed to adequately control all nonpoint source pollution within the State.

Through the implementation of nonpoint source control projects, the PRC Program has improved water quality in areas throughout the State, particularly in He'eia watershed. Several Section 319(h) projects in He'eia watershed have targeted sediment and nutrients, which contributed to de-listings for total phosphorous and turbidity (2016) and nitrate and nitrite (2018) in the wet

season. The reported estimated pollutant load reductions for all Section 319(h) projects conducted within fiscal year 2016 and fiscal year 2017 consisted of:

- Total nitrogen load reduction – 17,119 lb
- Total phosphorus load reduction – 2,866 lb
- Sediment load reduction – 5,257 tons

It is anticipated that with the continued implementation of PRC projects intended to address polluted runoff, similar load reductions can be expected within the next two fiscal years.

#### B.2.4. Hawaii Water Quality Standards

Hawaii's Water Quality Standards form a legal basis for controlling pollution entering waters within the State, and are described in Hawaii Administrative Rules (HAR), Title 11, Chapter (Ch.) 54, hereafter known as water quality standards (WQS). Water quality standards are regulations that include classification of water bodies (e.g., embayment, open coastal, flowing stream, etc.), identification of the designated uses, water quality criteria necessary to protect the designated uses, and a general policy of water quality antidegradation for all water types:

- (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 on 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.

The WQS categorize the State's surface waters as inland or marine waters. Inland waters are comprised of water body types such as streams, estuaries, lakes and reservoirs, wetlands, and anchialine pools. Marine water body types are comprised of embayments, coastal, and oceanic waters and classified into class A and AA (both bounded by 100 fathom contour or 600-foot depth contour). The specific numeric water quality criteria applicable to streams, estuaries, embayments, coastal and oceanic waters form the basis for determining whether a waterbody is meeting its intended uses.

The WQS play a central role in the successful implementation of Hawaii's surface water pollution control programs. To evaluate the need for revising or adding to State standards, the CWB is required by the CWA to conduct a comprehensive review of the state water quality standards on a tri-annual basis. The review process allows for the State to determine whether its water quality standards are sufficient to maintain the designated uses for each identified water body type. The next triennial review is expected to be completed in 2018.

### B.3. Special State Concerns and Recommendations

A new framework for implementing the CWA Section 303(d) Program, titled *A Long-Term Vision for Assessment, Restoration, and Protection under the Clean Water Act Section 303(d) Program* (Vision), was announced by the EPA in December 2013. The new program vision is intended to enhance the overall efficiency of the CWA Section 303(d) Program by bringing attention to priority waters and acknowledging that states have other available options besides TMDLs to attain water quality restoration and protection (EPA 2015). While the vision does not alter the State's CWA §303(d) regulatory obligations, it allows the states the flexibility to implement its responsibilities in the context of the State's overall water quality goals.

#### *Ocean Acidification*

The CWB recognizes that ocean acidification is an emerging global issue that may have various negative impacts on aquatic life. The CWB has conducted a thorough review of all the comments and information submitted regarding ocean acidification during this IR cycle and appreciates the opportunity to review this material. Due to the complex nature of ocean acidification and subsequent lack of an assessment method to accurately determine whether a water body is impaired due to ocean acidification, the CWB did not assess the water bodies for this parameter in the 2018 IR.

### B.4. Future Monitoring Recommendations

It is anticipated that future monitoring efforts will continue to focus on collecting data for statewide watershed assessments, allowing for a more seamless integration of water body types and surrounding land use. Upcoming reports will continue to utilize State watershed delineations for inland and nearshore marine waters, as well as other geographical attributes. Currently, the CWB is in the process of developing GIS maps illustrating the assessment units. These maps were unable to be completed in time for the 2018 Integrated Report due to insufficient resources; however, it is anticipated that they should be available by 2020 for public use via the CWB website.

## PART C. SURFACE WATER MONITORING AND ASSESSMENT OVERVIEW

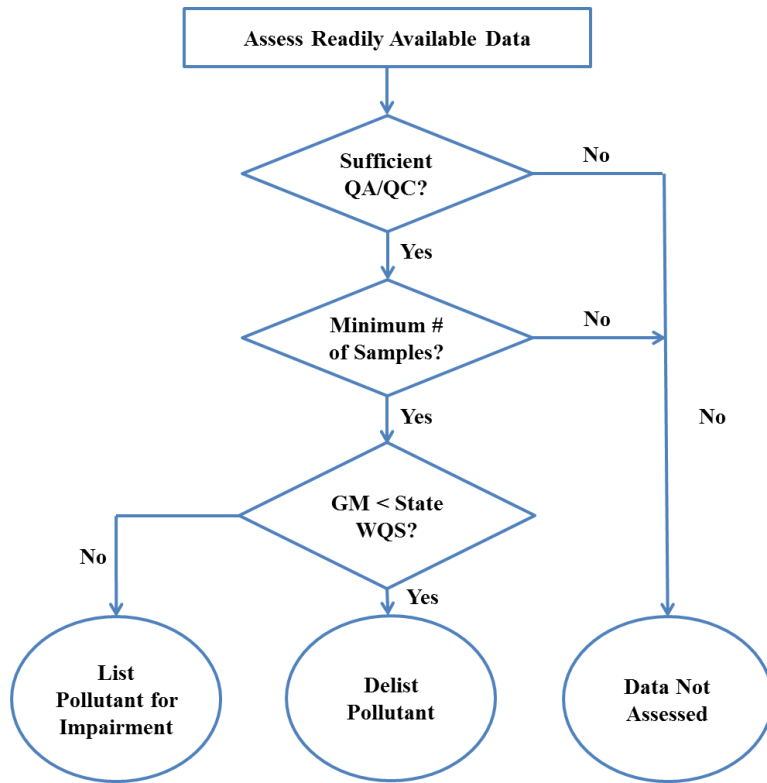
### C.1 Surface Water Monitoring and Assessment

The CWB conducts year-round monitoring of surface waters throughout the state to provide data to support BEACH Act requirements, §303(d) and 305(b) assessments, TMDL development, and CWA §319 watershed implementation projects. The CWB also participates in statistical survey designs as part of the National Aquatic Resource Surveys sponsored by the EPA, such as the National Reef Flat Assessment that occurred in Kaneohe Bay, Oahu in 2015. This statewide monitoring program maintains staff on Kauai, Oahu, Maui, and Hawaii.

## C.2 Assessment Methodology

State surface waters are monitored to determine if water quality conditions support public health while recreating in and on the water (recreational health) and ecosystem health. Recreational health is assessed by enumerating enterococci, the recommended EPA fecal indicator bacteria for coastal recreational waters. Ecosystem health is assessed by comparing nutrients and other pollutants to the applicable water quality criteria. The nutrient pollutants assessed in this report include total nitrogen (TN); nitrate+nitrite-nitrogen ( $\text{NO}_3+\text{NO}_2$ ); ammonium-nitrogen ( $\text{NH}_4$ ); total phosphorus (TP); and where applicable, total dissolved nitrogen (TDN), total dissolved phosphorus (TDP), and orthophosphate ( $\text{PO}_4$ ) (HAR Ch. 11-54-6(d)). Other parameters collected for assessment purposes include chlorophyll *a*, total suspended solids (TSS), and field parameters such as pH, temperature, turbidity, salinity, and dissolved oxygen. Chapters 1 and 2 contain more detailed assessment methods specific to marine and inland waters, respectively.

Decisions for listing/delisting water bodies for nutrients, bacteria, and other pollutants are based on the quality and quantity of data, water body type, and applicable numeric criteria (Figure 1.). A majority of the data assessed in the 2018 IR originated from beach samples collected along the coastline, as most of the CWB's monitoring efforts are currently focused on routine beach monitoring. There was limited inland water monitoring conducted. Additional sources of data considered for the 2018 IR include receiving water quality data from NPDES permitted facilities, private contractors, and non-governmental organizations (NGOs) (Appendix A).



**Figure 1.** Flow chart of the listing/delisting process for enterococci, TN, NO<sub>3</sub>+NO<sub>2</sub>, NH<sub>4</sub>, TP, PO<sub>4</sub>, turbidity, TSS, and chlorophyll *a*.

Assessed water bodies are then assigned to categories according to EPA's 2006 Integrated Water Quality Monitoring and Assessment Report Guidance. The attainment of WQS for one pollutant but not another can result in the assignation of one or more categories to a water body.

- Category 1:** All designated uses are supported; no use is threatened;
- Category 2:** Available data and/or information indicate that some, but not all the designated uses are supported;
- Category 3:** There is insufficient available data and/or information to make a use support determination;
- Category 4:** Available data and/or information indicate that at least one designated use is not being supported or is threatened, but a Total Maximum Daily Load (TMDL) is not needed;
  - 4a:** A TMDL to address a specific segment/pollutant combination has been approved or established by EPA;
  - 4b:** A use impairment caused by a pollutant is being addressed by the State through other pollution control requirements;
  - 4c:** A use is impaired, but the impairment is not caused by a pollutant;
- Category 5:** Available data and/or information indicate that at least one designated use is not being supported or is threatened, and a TMDL is needed.

Water bodies that attain State numeric water quality criteria are classified in either Category 1 or 2. Water bodies that do not meet State numeric water quality criteria are classified into Category 5 and constitute the CWA §303(d) list of impaired waters. A water pollution reduction plan, or TMDL, is required for water bodies that are impaired or not expected to meet State numeric water quality criteria, even after the application of technology-based effluent limitations in NPDES permits. Water bodies that have an approved TMDL are classified into Category 4a. Previously impaired water bodies (Category 5) that currently attain State numeric water quality criteria are “delisted” and reclassified into Category 1 or 2.

### C.3 Assessment Units

Historically, non-uniform scopes of assessment have been used to assess the State's waters in previous IRs. These have included a point, stretch of coastline, segments of streams, and waters contained between two geographical locations. To provide a more holistic and consistent assessment of the waters within the State, new assessment units are in the process of being created. The new assessment units (AUs) will be primarily based on the watersheds established by the State of Hawaii (DLNR) Commission on Water Resources Management (CWRM).

Watersheds will be used as the primary basis for the creation of new AUs since water quality assessments using watershed AUs consider the influence of watershed characteristics (e.g. land used, precipitation, and land-cover) on water quality downstream and in coastal areas. Marine waters fronting watersheds are largely influenced by streams and groundwater sources located in the associated watershed. Coastal waters, especially near shore marine recreational waters, can be viewed as an extension of the watershed.



The 2016 IR established CWB watershed AUs for Kauai, Maui, Oahu, Molokai, and Lanai. These CWB watershed AUs consist of marine waters that front the watershed. It is anticipated that by the 2020 IR cycle, new AUs will have been established for inland, open coastal, and oceanic waters. Maps for the AUs are currently under development and should also be available for the next IR cycle.

Since the new AUs have not been established for much of the waters within the State, the individual water bodies established in previous IRs are the primary basis for the current assessment and §303(d) listing. These may include points, stretches of coastline, segments of streams, and waters contained between two geographical locations. The water quality within the CWB watershed AUs that were established in the 2016 IR were assessed in the 2018 IR; however, they have not been issued a water body ID and are not included on the §303(d) list of impaired waters. They are currently intended to only provide an overall assessment of the quality of the marine waters that front the watersheds.

## **CHAPTER 1: MARINE WATERS**

## PART A. SCOPE OF WATERS

Part C of the Introduction describes the general methodology used to complete the assessment of both marine and inland waters. Chapter 1 further describes the assessment methodology and results applicable to marine waters as described in Hawaii's WQS, Hawaii Administrative Rules, Title 11, Chapter 54 (HAR Ch. 11-54). Marine waters are characterized according to water body type: embayments, open coastal, and oceanic waters. Specific numeric criteria applicable to each water body type are the primary basis for listing and delisting decisions.

The scopes of assessment for marine waters in the 2018 IR (i.e., stretches of coastline, beach segments, individual sampling stations, and CWB watershed AUs) are based upon the water body types described in the WQS and the premise that the water quality in near shore marine recreational waters is likely to be different than waters located offshore. For the purposes and consistency of the IR, nearshore recreational waters will continue to be categorized as coastal waters within 300 meters of shoreline and offshore waters beyond 300 meters.

### A.1. Assessment Units

The AUs used to assess marine waters in the 2018 IR consist primarily of points, stretches of coastline, and waters contained within two geographical locations. CWB watershed AUs were established for Kauai, Maui, Oahu, Lanai, and Molokai, and the marine water quality within each CWB watershed AU was assessed if sufficient data was available during this cycle. To avoid duplicate listings, CWB watershed AUs were not given a water body ID and are not included on the §303(d) list of impaired waters. The CWB watershed AUs are only used to assess the overall status of the State's waters as part of the §305(d). The results of the assessment are included in Appendix B.

## PART B. ASSESSMENT METHODOLOGY

Decisions for listing/delisting water bodies are based on the quality and quantity of data, water body type, and applicable State WQS. Numerous categories may be applicable to describe the current status of a water body because each AU is assessed for multiple pollutants. The attainment of WQS for one pollutant but not another, can result in the assignment of one or more categories to a water body.

Data collected in State receiving waters are placed into the appropriate assessment unit. The AUs are assessed based on water body types described in the WQS as well as the type of data available. AUs are assessed for recreational health and ecosystem health, where data is available.

### B.1. Recreational Health Assessment

Recreational health is assessed by enumerating enterococci, the recommended EPA fecal indicator bacteria for marine coastal recreational waters. Bacterial evaluations using enterococci inform both daily assessments and long term decisions (e.g. the IR) about whether public health is being protected while participating in water contact activities. The presence of enterococci in sufficient numbers "indicates the potential for human infectious diseases" as defined in the CWA §502(23) (EPA Office of Water 2012). Exceedance of the WQS for enterococci is generally

thought to indicate the presence of human fecal contamination and, hence, the presence of pathogens.

Daily assessments using enterococci are primarily used to support decisions made in the context of the BEACH Act. Recipients of BEACH Act grant funds, such as Hawaii, are required to notify the public when enterococci levels either exceed or are likely to exceed the applicable water quality standards at specific beach locations. Daily assessments apply to specific beach locations, and not larger assessment units. In Hawaii, the public must be notified when the enterococci concentrations in any given sample are at or above 130 colony forming units (CFUs)/100 mL of water.

The long-term decisions captured in IR assessments are based on monthly geometric means calculated from data collected from the AU over a two-year time. For IR purposes an AU is typically considered impaired if the enterococci geometric mean (GM) in not less than five samples over any 30-day interval exceeded 35 CFU/100 ml or more than 10% of samples over the same 30-day interval exceeded the statistical threshold value (STV) of 130 CFU/100 mL (Table 1).

In instances where one monthly enterococci GM for an AU does not meet the recreational WQS, but the remaining monthly enterococci geomeans meet the recreational WQS, an additional assessment is conducted prior to determining that the AU is impaired. The further assessment consists of reviewing field notes, brown water advisories that may have been in effect at the time the samples were collected, and the other geomeans that were calculated within the assessment cycle. If it is determined based upon assessment of this data, that the elevated GM for enterococci is likely due to a one-time occurrence and is unlikely to be representative of the health of the water body, the water body will not be listed as impaired.

**Table 1.** Enterococci recreational WQS attainment/non-attainment based on frequency, GM, and STV.

Frequency	Recreational WQS Attained	Recreational WQS Not Attained (Impaired)
30-day interval, minimum of 5 samples	GM ≤ 35 CFU/100 mL	GM > 35 CFU/100 mL
30-day interval, minimum of 5 samples	10% or less of total samples ≤ 130 CFU/100 mL	More than 10% of total samples > 130 CFU/100 mL

## B.2. Ecosystem Health Assessment

Ecosystem health assessments are based on a GM calculation of the nutrient and field parameters identified in HAR §11-54-6. Assessments require a minimum of 30 samples to be collected from within the AU over a two-year assessment cycle. When assessing CWB watershed AUs, the 30 samples may come from multiple stations located within the larger watershed-based AU and should be representative of seasonal variation where possible. In contrast to the monthly GM used to assess recreational health, ecosystem health assessment is based on one calculated GM for the two-year period. In addition, nutrient WQS vary depending on marine water body type, whereas bacterial WQS remain the same for all marine waters (Table 2). For marine waters

where transect data are available at multiple depths, data are grouped according to distance from shoreline and combined for assessment decisions.

**Table 2.** Applicable water body type and WQS for marine water bodies

<b>Water Body Type</b>	<b>Description</b>	<b>Recreational WQS</b>	<b>Nutrient WQS</b>
Embayments	As defined in §11-54-6	HAR §11-54-8	Embayment, HAR Ch. 11-54-6 (a)
Near Shore Marine Recreational Waters	Shoreline to 300 m offshore	HAR §11-54-8	Open Coastal, HAR Ch. 11-54-6 (b)
Open Coastal Marine Waters	Shoreline to 183 m (600 ft) depth contour	HAR §11-54-8	Open Coastal, HAR Ch. 11-54-6 (b)
Oceanic Waters	183 m (600 ft) depth contour to 3 miles offshore	HAR §11-54-8	Oceanic, HAR Ch. 11-54-6 (c)

### B.3. Water Body ID (*formally* Geocode ID)

Two sets of water body ID codes exist in the Hawaii structure: a 2-letter alphanumeric (HI) set and 3-letter alphanumeric (HIW) set. The numeric portion of both codes is preceded by the State abbreviation (HI) as per EPA protocol. The 2-letter code is from an existing structure of the EPA’s BEACH program that identifies recreational waters across the State. The 3-letter code is generated in response to areas where BEACH codes do not exist and areas that are divided into small subsections. Each code is comprised of a total of eight characters and is not ordered. Marine geocode IDs listed in former IRs were renamed to water body IDs in the 2016 IR because they serve as an internal unique identifier and do not relate to geospatial information. The 2018 IR keeps with the same naming convention as the 2016 IR. Currently, GIS maps for the §303(d) impaired waters list and §305(b) water bodies for marine waters are under development and upon completion may be made available for public use via the CWB website.

### B.4. Data Sources

A formal call for data was announced in June 2017 and closed November 1, 2017. Marine water quality data collected between November 2015 and October 2017 are assessed in this report. Sources of data assessed in this report originated from NPDES permitted facilities, private consulting firms, non-profit organizations, and routine and special sampling conducted by the CWB or partnering entities (Appendix A). New, readily available data that meet the CWB’s Quality Assurance/Quality Control (QA/QC) requirements are considered for assessment in the 2018 IR.

#### B.4.1. Quality Assurance/Quality Control

The CWB Monitoring and Analysis Section QA/QC is governed by the CWB Beach Monitoring Quality Assurance Project Plan (QAPP), which was approved by EPA Region IX on February 2, 2018, and the Coastal Chemistry Monitoring QAPP, which was submitted to EPA Region IX for review on March 12, 2018. In addition to the CWB QAPPs, the data quality necessary for assessment purposes are specified in the Environmental Management Division Quality Management Plan (EMD QMP), which was approved by EPA Region IX on November 15, 2013. Other data submitted from sources outside the HDOH are evaluated for conformance with the CWB QAPP and the EMD QMP.

#### B.4.2. Laboratory Analytical Support

The HDOH uses three Hawaii-based laboratories for analysis of samples: the Environmental Health Analytical Services Branch (EHASB) of the State Laboratories Division (SLD), the Natural Energy Laboratory of Hawaii Authority (NELHA), and Microbiology Consulting Services, LLC (MCS). The State maintains microbiology laboratories on the four largest islands (Kauai, Oahu, Maui, and Hawaii), which conduct bacterial analysis for their respective islands, with the exception of West Hawaii. MCS has analyzed bacterial samples for West Hawaii since July 2007. The EHASB analyzes bacterial samples collected by HDOH personnel on Oahu and chemical samples collected by HDOH personnel on Kauai, Oahu, Maui, and Hawaii.

#### B.4.3. Data Storage, Management, and Sharing

The CWB bacterial dataset extends from 1973 to the present, and the nutrient and water quality indicator dataset extends from 2006 to the present. Water quality data currently generated from CWB coastal monitoring is available on the CWB's website and EPA's STorage and RETrieval (STORET) database. The STORET database contains all post-1999 sampling data from the CWB's fixed network of routine monitoring stations. Data collected before 1999 are stored in the Legacy STORET Database. The end-users of the STORET database system include government agencies, consultants, students and the general public.

The 2018 IR data will be uploaded into EPA's Assessment and Total Maximum Daily Load Tracking and Implementation System (ATTAINS) database. The ATTAINS database is currently under development and is scheduled to be completed in 2018.

### PART C. RESULTS

#### C.1. Marine Water Body Assessment Results

##### *Statewide*

Marine water bodies that had new, readily available data were assessed in this report. Out of the 108 marine water bodies assessed, 88 do not attain WQS for at least one or more conventional pollutants (Tables 3 and 4). It should be noted that not all pollutants are assessed for every water body due to unavailability of new data.

Of the marine waters assessed, the pollutant that most frequently met WQS during this cycle was bacteria (91%), followed by chlorophyll *a* and nutrients (53% and 44%, respectively). The pollutant that met WQS the least frequently for the assessed waters was turbidity (16%). This is consistent with the results of previous assessments.

The assessment of the available water quality data resulted in the listing of 13 new water body/pollutant combinations onto the §303(d) list of impaired waters, and most of the new listings are associated with Oahu and Maui. The assessment also resulted in the delisting of 22 water body/pollutant combinations from the list of impaired waters, and most of the delistings are associated with Hawaii. No marine water bodies were assessed this cycle for Molokai, and only one water body was assessed for Lanai.

**Table 3.** Assessed marine water bodies in the 2018 IR cycle.

Island	Total Assessed Water Bodies this Cycle	New Impaired Waters Listings	New Impaired Waters Delistings
Kauai	20	1	1
Oahu	49	5	2
Molokai	0	0	0
Lanai	1	1	0
Maui	18	5	2
Hawaii	20	1	17
<b>Total</b>	<b>108</b>	<b>13</b>	<b>22</b>

**Table 4.** Assessed marine water body attainment (A) and non-attainment (N) of WQS for pollutants summarized by island. -- = not assessed.

Island	Total Assessed Water Bodies this Cycle	Bacteria		Nutrients		Turbidity		Chlorophyll <i>a</i>	
		A	N	A	N	A	N	A	N
Kauai	20	11	2	1	4	0	16	2	2
Oahu	49	41	1	7	2	5	27	1	7
Molokai	0	--	--	--	--	--	--	--	--
Lanai	1	--	--	0	1	1	0	1	0
Maui	18	7	3	0	10	3	14	2	4
Hawaii	20	11	1	7	2	5	15	10	1
<b>Total</b>	<b>108</b>	<b>70</b>	<b>7</b>	<b>15</b>	<b>19</b>	<b>14</b>	<b>72</b>	<b>16</b>	<b>14</b>

*By Island.*

Assessed water bodies on all islands mostly met attainment of the bacteria WQS (70% to 98%). Assessed marine water bodies on Oahu and Hawaii have the highest rate of attainment of the nutrient WQS (78%), while only 25% of Kauai’s and none of Maui’s assessed marine water bodies attain the numeric nutrient WQS. Attainment of the turbidity WQS was predominately not met for most islands (Kauai, Oahu, Maui, and Hawaii). The rate of attainment of the turbidity WQS ranged from 0% to 25%. Attainment of chlorophyll *a* WQS is identified in 91% of marine water bodies assessed on Hawaii. Most of the assessed water bodies on Oahu and Maui do not attain the chlorophyll *a* WQS (13% and 33%, respectively). (Table 4).

**C.2. Watershed Assessment Results**

In an effort to provide a more holistic assessment of the waters within the State, the water quality within the established CWB watershed AUs was assessed. At the time this report was prepared, CWB watershed AUs have only been established for Kauai, Oahu, Maui, Molokai, and Lanai.

*Statewide*

Approximately 544 CWB watershed AUs have been established. Based on new, readily available water quality data, 49 CWB watershed AUs on Kauai, Oahu, Lanai, and Maui are assessed in this report. Approximately 24% of the CWB watershed AUs on Oahu, 19% of CWB watershed

AUs on Kauai, 12% of CWB watershed AUs on Maui, and 3% of CWB watershed AUs on Lanai were assessed for at least one pollutant in the 2018 IR. Hawaii is not included in this assessment because its marine water bodies have not been organized into their respective CWB watershed AUs. CWB watershed AUs for Hawaii should be available in the 2020 IR. In addition, no new data for CWB watershed AUs on Molokai and limited data for CWB watershed AUs on Lanai was available during this IR cycle.

Of the 49 CWB watershed AUs assessed, 46 do not attain State WQS for at least one or more conventional pollutants. It should be noted that not all pollutants are assessed for every water body due to unavailability of new data. The WQS for nutrients were exceeded the most frequently (100% of assessed CWB watershed AUs), followed by turbidity (98% of assessed CWB watershed AUs). Despite the high percentage of exceedances for nutrients, only 20% of the total assessed CWB watershed AUs were assessed for nutrients. Approximately 62% of the assessed CWB watershed AUs attain the chlorophyll *a* WQS, and attainment of the bacteria water quality standard is observed in 88% of CWB watershed AUs assessed (Table 5).

**Table 5.** Assessed watershed AUs attainment (A) and non-attainment (N) of WQS for pollutants summarized by island. -- = not assessed.

Island	Total Assessed Watershed AUs	Bacteria		Nutrients		Turbidity		Chlorophyll <i>a</i>	
		A	N	A	N	A	N	A	N
Kauai	14	10	1	0	2	0	14	1	1
Oahu	21	20	1	--	--	0	18	--	--
Molokai	--	--	--	--	--	--	--	--	--
Lanai	1	--	--	0	1	1	0	1	0
Maui	13	8	3	0	7	0	13	1	4
Hawaii	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>49</b>	<b>38</b>	<b>5</b>	<b>0</b>	<b>10</b>	<b>1</b>	<b>45</b>	<b>3</b>	<b>5</b>

### *By Island*

Kauai, Oahu, and Maui show the highest percentage of turbidity impairments (100%) in assessed CWB watershed AUs. Approximately 88% of assessed CWB watershed AUs attained for the bacteria water quality standard (95% for Oahu, 91% for Kauai, and 73% for Maui) (Table 3). Limited data for nutrients and chlorophyll *a* were available to assess in the 2018 IR cycle, and subsequently only 10 CWB watershed AUs were assessed for nutrients and only 8 CWB watershed AUs were assessed for chlorophyll *a*. None of the assessed CWB watershed AUs attained for nutrients, and only 37% of assessed CWB watershed AUs attained for chlorophyll *a*.

### C.3. Assessment Results Summary

The 2018 IR continues to implement a multi-category listing method (Category 1-5) to characterize current water quality status (e.g. new impairment listing, delisting, etc.) across the State. The following table details how a marine water body is assigned a different numerical category and includes reasons for those changes. Overall, there were 13 new listings and 22 delistings for pollutants for the 2018 IR assessment cycle (Tables 6 through 10).



Maui and Oahu had the greatest number of new listings (5 each), followed by Kauai, Lanai, and Hawaii (1 each). Hawaii had the greatest number of delistings (17), followed by Oahu, Maui, and Kauai (2, 2, and 1, respectively). Turbidity was the most frequent pollutant to cause a water body to be listed during this cycle. This is consistent with previous integrated reports, and may be due to increased polluted runoff entering near-shore waters.

Table 6. Kauai Category Changes					
Scope of Assessment	Water Body ID	Pollutant	Decision Action	Summary Rationale	Reason for Change
Nawiliwili Bay (Nawiliwili Harbor)	HIW00115	Chl <i>a</i>	List Pollutant	NND, NL	<b>ASSIGN cat 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 2 to 5.
Pacific Missile Range Facility (Open Coastal)	HIW00212	Chl <i>a</i>	Delist Pollutant	NND, A2	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 5 to 2.

Category changes from the 2016 listed marine water bodies that identify pollutants where a change has occurred (e.g., new impairment listing, delisting, etc.). Pollutants: Enterococcus; TN=total nitrogen, TDN=total dissolved nitrogen, NO<sub>3</sub>+NO<sub>2</sub>=nitrate+nitrite-nitrogen, NH<sub>4</sub>=ammonia-nitrogen, TP=total phosphorus, PO<sub>4</sub>=orthophosphate, turbidity, Chl *a*=chlorophyll *a*. Summary rationale codes: NND=new numerical data, NL=new impairment listing (assign category 5), DL=delisting, A2=assign category 2 (category change from 3 to 2). TBD=to be determined.

Table 7. Lanai Category Changes					
Scope of Assessment	Water Body ID	Pollutant	Decision Action	Summary Rationale	Reason for Change
*Hulupoe Bay	HIW00177	NH <sub>4</sub>	List Pollutant	NND, NL	<b>ASSIGN cat 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 2 to 5.

Category changes from the 2016 listed marine water bodies that identify pollutants where a change has occurred (e.g., new impairment listing, delisting, etc.). Pollutants: Enterococcus; TN=total nitrogen, TDN=total dissolved nitrogen, NO<sub>3</sub>+NO<sub>2</sub>=nitrate+nitrite-nitrogen, NH<sub>4</sub>=ammonia-nitrogen, TP=total phosphorus, PO<sub>4</sub>=orthophosphate, turbidity, Chl *a*=chlorophyll *a*. Summary rationale codes: NND=new numerical data, NL=new impairment listing (assign category 5), DL=delisting, A2=assign category 2 (category change from 3 to 2). TBD=to be determined.

Table 8. Oahu Category Changes					
Scope of Assessment	Water Body ID	Pollutant	Decision Action	Summary Rationale	Reason for Change
Kahe Point (Open Coastal)	HIW00214	TN	List Pollutant	NND, NL	<b>ASSIGN cat 5</b> ; Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 2 to 5.
		NO <sub>3</sub> +NO <sub>2</sub>	List Pollutant	NND, NL	<b>ASSIGN cat 5</b> ; Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 2 to 5.
Ocean Pointe Control	HIW00129	Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat 5</b> ; Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 2 to 5.
Ocean Pointe W	HIW00131	Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat 5</b> ; Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 2 to 5.
Ocean Point KA	HIW00210	Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat 5</b> ; Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 2 to 5.
Sandy Beach (Open Coastal)	HIW00191	NH <sub>4</sub>	Delist Pollutant	NND, DL	<b>DELIST cat 2</b> ; Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 5 to 2.
		Chl <i>a</i>	Delist Pollutant	NND, DL	<b>DELIST cat 2</b> ; Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 5 to 2.

Category changes from the 2016 listed marine water bodies that identify pollutants where a change has occurred (e.g., new impairment listing, delisting, etc.). Pollutants: Enterococcus; TN=total nitrogen, TDN=total dissolved nitrogen, NO<sub>3</sub>+NO<sub>2</sub>=nitrate+nitrite-nitrogen, NH<sub>4</sub>=ammonia-nitrogen, TP=total phosphorus, PO<sub>4</sub>=orthophosphate, turbidity, Chl *a*=chlorophyll a. Summary rationale codes: NND=new numerical data, NL=new impairment listing (assign category 5), DL=delisting, A2=assign category 2 (category change from 3 to 2). TBD=to be determined.

**Table 9. Maui Category Changes**

Scope of Assessment	Water Body ID	Pollutant	Decision Action	Summary Rationale	Reason for Change
Lahaina Beach	HI407363	TN	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
		NO <sub>3</sub> +NO <sub>2</sub>	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
		NH <sub>4</sub>	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
		TP	Delist Pollutant	NND	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in category change from 3 to 2.
		Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
Hanaka'o'o Beach County Park	HI797917	Enterococcus	List Pollutant	NND, NL	<b>ASSIGN cat. 5;</b> Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 2 to 5.
Kaanapail (Kahekili Beach)	HI643627	NH <sub>4</sub>	Delist Pollutant	NND	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in category change from 5 to 2.

Category changes from the 2016 listed marine water bodies that identify pollutants where a change has occurred (e.g., new impairment listing, delisting, etc.). Pollutants: Enterococcus; TN=total nitrogen, TDN=total dissolved nitrogen, NO<sub>3</sub>+NO<sub>2</sub>=nitrate+nitrite-nitrogen, NH<sub>4</sub>=ammonia-nitrogen, TP=total phosphorus, PO<sub>4</sub>=orthophosphate, turbidity, Chl<sub>a</sub>=chlorophyll a. Summary rationale codes: NND=new numerical data, NL=new impairment listing (assign category 5), DL=delisting, A2=assign category 2 (category change from 3 to 2). TBD=to be determined.

**Table 10. Hawaii Island Category Changes**

Scope of Assessment	Water Body ID	Pollutant	Decision Action	Summary Rationale	Reason for Change
Kahawai Bay-Mano Point	HIW00153	TN	Delist Pollutant	NND	ASSIGN cat. 2; Assessment of new data indicates that applicable WQS are being attained, resulting in category change from 5 to 2.
		TP	Delist Pollutant	NND	ASSIGN cat. 2; Assessment of new data indicates that applicable WQS are being attained, resulting in category change from 5 to 2.
		Turbidity	List Pollutant	NND, NL	ASSIGN cat. 5; Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 2 to 5.
		PO <sub>4</sub>	Delist Pollutant	NND	ASSIGN cat. 2; Assessment of new data indicates that applicable WQS are being attained, resulting in category change from 5 to 2.
Kealakekua Bay	HIW00149	TN	Delist Pollutant	NND	ASSIGN cat. 2; Assessment of new data indicates that applicable WQS are being attained, resulting in category change from 5 to 2.
		PO <sub>4</sub>	Delist Pollutant	NND	ASSIGN cat. 2; Assessment of new data indicates that applicable WQS are being attained, resulting in category change from 5 to 2.
Manini'owali	HI720408	TN	Delist Pollutant	NND	ASSIGN cat. 2; Assessment of new data indicates that applicable WQS are being attained, resulting in category change from 5 to 2.
		TP	Delist Pollutant	NND	ASSIGN cat. 2; Assessment of new data indicates that applicable WQS are being attained, resulting in category change from 5 to 2.
		PO <sub>4</sub>	Delist Pollutant	NND	ASSIGN cat. 2; Assessment of new data indicates that applicable WQS are being attained, resulting in category change from 5 to 2.

**Table 10. Hawaii Island Category Changes**

Scope of Assessment	Water Body ID	Pollutant	Decision Action	Summary Rationale	Reason for Change
Paaoao Point to Keaweakaheka Point	HIW00145	TN	Delist Pollutant	NND	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in category change from 5 to 2.
		PO <sub>4</sub>	Delist Pollutant	NND	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in category change from 5 to 2.
Puhi Bay	HIW00206	NO <sub>3</sub> +NO <sub>2</sub>	Delist Pollutant	NND	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in category change from 5 to 2.
Waiulua Bay to Anaehoomalu Bay	HIW00148	TN	Delist Pollutant	NND	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in category change from 5 to 2.
		NO <sub>3</sub> +NO <sub>2</sub>	Delist Pollutant	NND	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in category change from 5 to 2.
		NH <sub>4</sub>	Delist Pollutant	NND	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in category change from 5 to 2.
		TP	Delist Pollutant	NND	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in category change from 5 to 2.
		Chl <i>a</i>	Delist Pollutant	NND	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in category change from 5 to 2.
		PO <sub>4</sub>	Delist Pollutant	NND	<b>ASSIGN cat. 2;</b> Assessment of new data indicates that applicable WQS are being attained, resulting in category change from 5 to 2.

Category changes from the 2016 listed marine water bodies that identify pollutants where a change has occurred (e.g., new impairment listing, delisting, etc.). Pollutants: Enterococcus; TN=total nitrogen, TDN=total dissolved nitrogen, NO<sub>3</sub>+NO<sub>2</sub>=nitrate+nitrite-nitrogen, NH<sub>4</sub>=ammonia-nitrogen, TP=total phosphorus, PO<sub>4</sub>=orthophosphate, turbidity, Chl *a*=chlorophyll *a*. Summary rationale codes: NND=new numerical data, NL=new impairment listing (assign category 5), DL=delisting, A2=assign category 2 (category change from 3 to 2). TBD=to be determined.

## **CHAPTER 2: INLAND WATERS**

## PART A. SCOPE OF WATERS

Chapter 2 of the 2018 IR covers all inland waters. Assessment units for the 2018 IR remain the same as in previous IRs. Inland freshwaters are partitioned by type according to the HAR Ch. 11-54.

## PART B. MONITORING AND ASSESSMENT

### B.1. Basic Assessment Unit

The basic (Tier I) assessment unit for the State’s inland freshwaters is the entire network of hydrologically connected freshwater segments associated with a single listed stream, stream segment, or stream tributary. These freshwater segments and AUs can include one or more water body type as defined by HAR Ch. 11-54, including, but not limited to, intermittent streams, reservoirs, and wetlands (Table 11).

**Table 11.** Applicable water quality criteria and decision unit boundaries for inland freshwater bodies.

Water Body Type <sup>1</sup>	Applicable Water Quality Criteria <sup>2</sup>	Decision Unit Boundary <sup>3</sup>
Flowing Seep	Basic/Recreational	Flowpath/Flow Surface
Flowing Spring	Basic/Recreational	Flowpath/Flow Surface
Elevated Wetland	Basic/Recreational/Wetland	1987 Corps Delineation <sup>4</sup>
Low Wetland	Basic/Recreational	1987 Corps Delineation <sup>4</sup>
Intermittent Stream	Basic/Recreational/Water Column/Bottom	Entire Network or Sub-network <sup>5</sup>
Perennial Stream	Basic/Recreational/Water Column/Bottom	Entire Network or Sub-network <sup>5</sup>
Natural Freshwater Lake	Basic/Recreational	Lake
Freshwater Impoundment <sup>6</sup>	Basic/Recreational	Impoundment
Reservoir	Basic/Recreational	Reservoir
Ditch	Basic/Recreational	Ditch
Flume	Basic/Recreational	Flume
Drainage Ditch <sup>7</sup>	Basic/Recreational	Drainage Ditch
Canal <sup>7</sup>	Basic/Recreational	Canal
Estuary	Basic/Recreational/Pearl Harbor	Entire Network or Sub-network <sup>5</sup>

<sup>1</sup>HAR Ch. 11-54-1 inland freshwater water body types; these definitions are applied to the definition of decision units. <sup>2</sup>HAR Ch. 11-54-4 basic water quality criteria applicable to all waters; HAR Ch. 11-54-8(a) specific criteria for inland recreational waters; HAR Ch. 11-54-5.2(b) specific criteria for stream water column; HAR Ch. 11-54-5.2(b)(2) bottom criteria for streams; HAR Ch. 11-54-5.2(c) specific criteria for elevated wetlands; HAR Ch. 11-54-5.2(d) specific criteria for estuaries. <sup>3</sup>HAR Ch. 11-54-5.1(a) establishes a system of water body classification and associated designated uses. <sup>4</sup>HAR Ch. 11-54-1 “...the identification and delineation of wetland boundaries shall be done following the procedures described in the U.S. Army Corps of Engineers’ Wetland Delineation Manual (USACE 1987).” <sup>5</sup>HAR Ch. 11-54-1 “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. For stream attainment decision purposes, “associated” is interpreted as “hydrologically connected” and estuaries, ditches, flumes, drainage ditches, and canals are not included in the assessment. <sup>6</sup>This water body type is not defined by rule but is included in the definition of “Standing waters.” This water body type is not defined by rule but is included in the definition of “State waters.”



### B.1.1. Tiered Approach

A tiered approach, linked with the assessment decision criteria first adopted in Hawaii's 2002 §303(d) list of impaired waters, was used in past assessments to refine AUs for inland freshwater stream networks. Tier I AUs are used for initial attainment decisions as governed by the current §303(d) listing criteria and for defining the geographic scope of "legacy" listings based on visual assessments. Tier II AUs encompass segments and partial segments that can be more narrowly defined and assessed based on existing monitoring locations, data, and boundaries between water body types, and are used for attainment decisions on a case-by-case basis. Tier III AUs are established for TMDL development and other intensive monitoring and analysis purposes. Tier IV AUs are part of Tier III assessment units and defined based on the most detailed assessment information.

### B.1.2. Assessment Unit Rationale and Implementation

HIDOH's current focus on defining AUs for inland freshwaters is based on:

- (a) An assumption that streams are the most widespread and important inland freshwater body type to assess for achieving marine water quality goals;
- (b) The lack of numeric water quality standards criteria for conventional chemical and physical pollutants in most other freshwater body types;
- (c) The unavailability of a complete water body inventory and present limitations for monitoring and assessing all water bodies, water quality criteria, and use attainment within each water body type.

AU boundaries for other inland freshwater body types are defined on a case-by-case basis when monitoring data and other assessment information is available, but generally encompass the entire water body.

### B.1.3. Application of Criteria to Attainment Decisions

The §303(d) list of impaired waters applies to the entire inland freshwater portion of a stream system, including all hydrologically connected reaches, unless a case is documented in which smaller decision units are justified. The same method also applies to other water body types.

The HIDOH recommends non-HIDOH entities conducting similar monitoring, analysis, and planning activities to consult with HIDOH about sampling designs and information management protocols that will facilitate HIDOH's ability to use secondary data for attainment decisions. The entire hydrologic network within a watershed is the largest possible assessment unit for inland freshwater bodies, and may include the boundaries of the following water body types as defined by HAR Ch. 11-54-1.

HIDOH encourages monitoring, analysis, and planning activities that acknowledge and consider the regulatory boundaries between specific water body types and demonstrate a rationale for segmenting each water body into smaller assessment units. The EPA's 2006 IR Guidance (U.S. EPA Watershed Branch 2005) provides a summary of factors to consider in developing these rationales.

## B.2. Quality Assurance/Quality Control

The data quality necessary for assessment purposes are specified in the CWB Quality Assurance Program Plan (QAPrgP) and the EMD QMP, which were approved by EPA Region IX on May 5, 2013 and November 15, 2013, respectively. An updated CWB QAPrgP is currently in preparation and should be completed within 2018. Other data submitted from sources outside the HDOH are evaluated for conformance with the CWB QAPP and the EMD QMP.

## B.3. Assessment Methodology

Standardized criteria enable HDOH to periodically collect and assess datasets for water body evaluations. Datasets and supporting documentation are evaluated against numeric water quality criteria, henceforth referred to as WQS, where applicable, for listing/delisting decisions. New, readily available data that meet the CWB's QA/QC and data submittal requirements are considered for assessment in the 2018 IR.

The WQS described in HAR Ch. 11-54 for recreational, nutrient, and water quality indicators in inland freshwaters are divided into “wet” (November through April) and “dry” (May through October) season criteria. This is in contrast to the “wet” and “dry” WQS applicable in marine waters, which are dependent on the amount of freshwater discharge per shoreline mile. Water quality standards for estuaries are not divided into “wet” and “dry” seasons.

Similar to marine waters, enterococci are the indicator bacteria used to evaluate recreational health in inland waters, while nutrients (TN, NO<sub>3</sub>+NO<sub>2</sub>, NH<sub>4</sub>, and TP) and water quality indicators (TSS, turbidity, and chlorophyll *a*) are used to determine ecosystem health. These pollutants are evaluated for inland waters in the same manner as for marine waters, which is described in Chapter 1, Part B. The minimum number of samples required to evaluate inland waters for enterococci and nutrients (30 samples collected over 2 years) is the same as required to evaluate marine waters.

Decisions for listing/delisting (§303(d)) conventional pollutants for inland waters follow the same protocol as marine waters (Figure 1). For the 2018 IR, inland waters follow the same assessment methodology as marine waters for recreational and ecosystem health water quality assessment, with the exception of 30 minimum sample size. Similar to marine waters, nutrient WQS vary depending on water body type, whereas bacterial WQS remain the same for all marine waters (Table 12).

**Table 12.** Applicable water body type and WQS for inland water bodies.

<b>Water Body Type</b>	<b>Description</b>	<b>Recreational WQS</b>	<b>Nutrient WQS</b>
Estuaries	As defined in HAR Ch. 11-54-1	HAR Ch. 11-54-8	Estuary, HAR Ch. 11-54-5.2(d)(1)
Streams	As defined in HAR Ch. 11-54-1	HAR Ch. 11-54-8	Embayment, HAR Ch. 11-54-5.2(b)

For toxic pollutants, such as pesticides and heavy metals, which often require expensive analyses, a minimum sample size of three is required for assessment. Toxic pollutants for inland freshwaters are characterized by acute and chronic concentration criteria and fish consumption criteria.

Biological surveys of aquatic communities, fish consumption advisories, and reports of contaminated sediments are also eligible sources of listing information. Datasets for evaluation of narrative criteria must include at least three sampling events and represent conditions in wet and dry seasons. These narrative criteria may be evaluated using HDOH-approved habitat or biological assessment methodologies as long as they can be directly correlated to specific narrative criteria in HAR Ch. 11-54-4. Also, in accordance with HAR Ch. 11-54-4(b)(2)(A), acute toxicity standards for the contamination of sediment may be evaluated using broadly accepted standards such as those developed in Canada and New York (Canadian Council of Ministers of the Environment 1999; New York State Department of Environmental Conservation 1999), provided that HDOH deems them appropriate for use in Hawaii.

### B.3.1. Water Body ID

Numerous conventions for naming and coding Hawaii's water bodies and AU boundaries have been designed and used over time. Building a comprehensive statewide water body inventory that standardizes these conventions for use by HDOH and others is an ongoing intergovernmental resource management task. Geocode ID (or water body identification) for inland freshwater assessment units are based on the Hawaii Stream Assessment Coding System (Hawaii Cooperative Park Service Unit 1990) with some modifications, as noted in the 2006 IR. Similar to marine waters, geocode IDs for inland waters were renamed to water body ID in the 2016 IR because they serve as an internal unique identifier and do not relate to geospatial information. Development of GIS maps for the §303(d) impaired waters list and §305(b) water bodies for inland waters will coincide with the development of the standardized assessment methodology for inland waters and therefore come at a later date.

### B.4. Inland Waters Assessment Results

Two inland freshwater bodies and three estuaries are assessed in this report. These assessed inland water bodies are summarized in Table 13. A summary of category changes for inland waters is located in Tables 14 and 15.

- Waioli Stream (Kauai) (dry season)
- Heeia Stream (Oahu) (wet and dry seasons)
- Hanalei River estuary (end of Weke Road) (Kauai)
- Waipa estuary (Kauai)
- Pearl Harbor estuary (Oahu)

**Table 13.** Assessed Inland Water Bodies in the 2018 IR Cycle

<b>Island</b>	<b>Total Assessed Water Bodies this Cycle</b>	<b>New Impaired Waters Listings</b>	<b>New Impaired Waters Delistings</b>
Kauai	3	2	0
Oahu	2	0	1
Molokai	0	0	0
Lanai	0	0	0
Maui	0	0	0
Hawaii	0	0	0
<b>Total</b>	<b>5</b>	<b>2</b>	<b>1</b>

***Streams Wet Season***

*Oahu*

Heeia Stream initially exceeded wet season WQS for NO<sub>3</sub>+NO<sub>2</sub> in the 2004 IR and was subsequently listed for turbidity and TP impairment in the 2006 IR and 2014 IR, respectively. In the 2016 IR, turbidity and TP were delisted for Heeia Stream. Total nitrogen and TSS concentrations in Heeia Stream indicate current attainment of WQS, as in previous IRs. New numerical data indicate that Heeia Stream currently attains WQS for NO<sub>3</sub>+NO<sub>2</sub>, resulting in a delisting of Heeia Stream for NO<sub>3</sub>+NO<sub>2</sub> (Table 15). Heeia Stream currently does not have any impairment listings for wet season WQS.

Over the past 10 years, the PRC program has funded four projects to address polluted runoff within the Heeia Watershed. This has led to an increased public awareness of water quality and water health within Heeia Stream. It is also likely that the implementation of these projects has positively impacted the water quality within the stream, as is evidenced by the delisting of three wet season WQS for the stream within the past two IR cycles.

***Streams Dry Season***

*Kauai*

Waioli Stream was previously assessed for TSS, NO<sub>3</sub>+NO<sub>2</sub>, TN, TP, and turbidity, and met the associated WQS. In the 2018 IR, numerical data for enterococci and turbidity were available for assessment (Table 14). The newly assessed numerical data indicate that Waioli Stream currently does not attain WQS for enterococci and turbidity, resulting in a listing for both pollutants.

*Oahu*

Heeia Stream was initially listed as impaired for TN and NO<sub>3</sub>+NO<sub>2</sub> during the dry season in the 2006 IR. In the 2014 IR, Heeia Stream attained the dry season TN WQS, resulting in a delisting for this pollutant; however, it was relisted for TN WQS in the 2016 IR. Heeia Stream continues to exceed the dry season TN and NO<sub>3</sub>+NO<sub>2</sub> WQS. It continues to attain the dry season TP, turbidity, and TSS WQS, as in previous IRs.

## *Estuaries*

### *Kauai*

Hanalei River (end of Weke Road) estuary was initially listed as impaired for enterococci prior to the 2002 IR and for turbidity in the 2004 IR. TMDLs for enterococci and turbidity were approved in 2008. Newly assessed numerical data indicate Hanalei River estuary continues to not attain WQS for enterococci and turbidity.

Waipa estuary was initially listed as impaired for turbidity in the 2008 IR and for enterococci in the 2014 IR. In 2008, a TMDL was approved for turbidity for Waipa estuary. Newly assessed numerical data indicate this water body continues to not attain WQS for enterococci and turbidity.

### *Oahu*

Pearl Harbor estuary was listed as impaired for turbidity prior to the 2002 IR and continued to be listed until the 2012 IR, in which it became delisted and attained WQS for turbidity. Newly assessed numerical data indicate this water body continues to attain WQS for turbidity.

## B.5. Wetlands Program

Responsibilities for wetland protection are diffused among various federal, state, and county authorities. There is no formal wetland program in HDOH. However, HDOH does utilize their authority under CWA §401 to certify, waive, or deny water quality certification for CWA §404 permits issued by the USACE for dredge/fill activities in U.S. waters.

## B.6. Public Health Issues

### Leptospirosis Threat

Leptospirosis is not included as a specific water quality standard pollutant. However, all inland freshwaters within the State are considered potential sources of Leptospirosis infection by the Disease Outbreak Control Division of HDOH. No direct tests have been approved or utilized to ascertain the extent of the public health threat through water sampling. Epidemiologic evidence has linked several illness outbreaks to contact with freshwater, leading authorities to issue blanket advisories for all inland freshwaters of the State.

### Fish Consumption Advisory

Pearl Harbor and Ala Wai Canal have been identified and posted as areas where fish and shellfish should not be consumed. Contamination of fish and shellfish include organochlorine pesticides and/or polychlorinated biphenyls and lead.

Table 14. Kauai Category Changes					
Scope of Assessment	Water Body ID	Pollutant	Decision Action	Summary Rationale	Reason for Change
Waioli Stream (dry)	2-1-18	Enterococcus	List Pollutant	NND, NL	<b>ASSIGN cat 5</b> ; Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 3 to 5.
		Turbidity	List Pollutant	NND, NL	<b>ASSIGN cat 5</b> ; Assessment of new data indicates that applicable WQS are not being attained, resulting in a category change from 2 to 5.

Category changes from the 2016 listed marine water bodies that identify pollutants where a change has occurred (e.g., new impairment listing, delisting, etc.). Pollutants: Enterococcus; TN=total nitrogen, TDN=total dissolved nitrogen, NO<sub>3</sub>+NO<sub>2</sub>=nitrate+nitrite-nitrogen, NH<sub>4</sub>=ammonia-nitrogen, TP=total phosphorus, PO<sub>4</sub>=orthophosphate, turbidity, Chl <sub>a</sub>=chlorophyll a. Summary rationale codes: NND=new numerical data, NL=new impairment listing (assign category 5), DL=delisting, A2=assign category 2 (category change from 3 to 2). \*Nested IR scopes of assessment within watershed DU. TBD=to be determined.

Table 15. Oahu Category Changes					
Scope of Assessment	Water Body ID	Pollutant	Decision Action	Summary Rationale	Reason for Change
Heeia Stream (wet)	3-2-08	NO <sub>3</sub> +NO <sub>2</sub>	Delist Pollutant	NND, DL	<b>DELIST cat 2</b> ; Assessment of new data indicates that applicable WQS are being attained, resulting in a category change from 5 to 2.

Category changes from the 2016 listed marine water bodies that identify pollutants where a change has occurred (e.g., new impairment listing, delisting, etc.). Pollutants: Enterococcus; TN=total nitrogen, TDN=total dissolved nitrogen, NO<sub>3</sub>+NO<sub>2</sub>=nitrate+nitrite-nitrogen, NH<sub>4</sub>=ammonia-nitrogen, TP=total phosphorus, PO<sub>4</sub>=orthophosphate, turbidity, Chl <sub>a</sub>=chlorophyll a. Summary rationale codes: NND=new numerical data, NL=new impairment listing (assign category 5), DL=delisting, A2=assign category 2 (category change from 3 to 2). \*Nested IR scopes of assessment within watershed DU. TBD=to be determined.

**CHAPTER 3: 2018 §303(d) and §305(b) WATER BODY ASSESSMENTS FOR  
HAWAII**

## 2018 §303(d) and §305(b) Water Body Assessments for Hawaii

States are required to obtain and review all existing and readily available State surface water quality data and related information to compare against the applicable water quality standards and characterize water quality. Hawaii’s water quality standards established numeric criteria for various pollutants at levels protective of the water body’s ability to support “fishable and swimmable” conditions. The 2018 State of Hawaii Water Quality Monitoring and Assessment Report presents the results of water body assessments primarily based on the numeric criteria appropriate for supporting environmental health and human recreational health. This report in conjunction with the EPA water quality reporting database serve as the primary vehicles for informing Congress and the public about general water quality conditions in the United States.

The water body assessment results are categorized per EPA’s 2006 Integrated Report guidance (Table 16). Water bodies with pollutant concentrations below the numeric criteria are evaluated as “attaining” (A) and assigned to either category 1 or 2. Water bodies that did not have enough data for evaluation purposes are coded with a "-" and assigned to Category 3. Category 4 describes waters that are not meeting designated uses but do not require a TMDL for various reasons: there is an approved TMDL in place (4a), the impairment is being addressed through other pollution control requirements (4b), or the impairment is not caused by a pollutant (4c). Water bodies that exceed the numeric criteria for one or more pollutants and need a TMDL are evaluated as “not attaining” (N) and assigned to category 5. The water bodies with a category 5 designation constitute the CWA §303(d) list of impaired waters, which is included in Appendix C.

**Table 16.** Water Body Assessment Categories

Category	
<b>1</b>	All designated uses are supported; no use is threatened;
<b>2</b>	Available data and/or information indicate that some, but not all the designated uses are supported;
<b>3</b>	There is insufficient available data and/or information to make a use support determination;
<b>4</b>	Available data and/or information indicate that at least one designated use is not being supported or is threatened, but a TMDL is not needed;
<b>4a</b>	A TMDL to address a specific segment/pollutant combination has been approved or established by EPA;
<b>4b</b>	A use impairment caused by a pollutant is being addressed by the State through other pollution control requirements;
<b>4c</b>	A use is impaired, but the impairment is not caused by a pollutant;
<b>5</b>	Available data and/or information indicate that at least one designated use is not being supported or is threatened, and a TMDL is needed.

A water pollution reduction plan, or TMDL, is required for water bodies that are impaired or not expected to meet State WQS (Category 5), even after the application of technology-based effluent limitations in NPDES permits. The prioritization (low, medium, high) of water bodies



for TMDL development is based on the number of pollutants not attaining state WQS, severity of exceedances, and resource availability.

The 2018 water body assessments primarily indicate where sampling has occurred within the State. The 2018 IR marine assessments also include CWB watershed AUs first introduced in the 2016 IR that provide a more holistic view of the coastline waters within the State. There are some CWB watershed AUs listed twice due to containing individual water bodies that are classified as an embayment or coastal water body type and thus are compared to different WQS. The results of the assessment do not reflect all water bodies in the State. Prior assessments confirmed with new data are shaded gray, and any category changes for previously assessed waters are bolded, italicized, underlined, and shaded gray. The §305(b) assessment of State waters is located in Appendix B, and the §303(d) list of impaired waters is located in Appendix C.

Each water body assessment is categorized according to EPA methods for inland and marine waters. Estuarine waters moved from marine waters to inland waters in the 2016 IR because HAR Ch. 11-54 classifies estuaries as inland waters. Water bodies are sorted by island and then by inland (streams and estuaries) and marine waters. For both inland and marine waters the following applies:

- **Inland Waters Scope of Assessment**
  - EN = Entire Network
  - EE = Entire Estuary
  - ER = Entire Reservoir
  - EW = Entire Wetland
  - EL = Entire Lake
  
- **Marine Water Body Type**
  - B = Embayment (as specified within HAR Ch. 11-54-6)
  - C = Open Coastal (marine waters from the shoreline to 183 m (600 ft) depth contour)
  - O = Oceanic (marine waters from the 183 m (600 ft) depth contour to 3 miles offshore)
  - E = Estuary
  - K = Kona (all marine waters of Hawaii Island 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 (HAR Ch. 11-54-6))
  - P = Pearl Harbor

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## APPENDIX A: Data Sources

### **City and County of Honolulu (CCH)**

The CCH collects bacteria, nutrient and water quality indicator (turbidity, TSS and chlorophyll *a*) samples from shoreline, near shore, and offshore locations on Oahu as part of their NPDES permit requirements for wastewater treatment plants (WWTP). Bacteria water quality data collected from control stations located in receiving water bodies on Oahu between November 1, 2015 and October 31, 2017 are included in the 2018 IR assessment. Nutrient and water quality indicator data did not meet the CWB QA/QC criteria and subsequently were not evaluated in this IR cycle. The WWTPs are located in Waianae, Honouliuli, Sand Island, and Kailua (Mokapu).

### **Clean Water Branch**

The CWB collects shoreline bacteria, nutrient and water quality indicator (turbidity, TSS, and chlorophyll *a*) samples as part of EPA's BEACH program. Shoreline data collected between November 1, 2015 and October 31, 2017 on Kauai, Maui, Oahu, and Hawaii were included in the 2018 IR assessment. Sufficient shoreline data was not collected on Lanai or Molokai within that timeframe. The CWB monitoring and analysis section QA/QC is governed by the CWB Beach Monitoring and Coastal Chemistry Monitoring QAPP.

### **Discharge Monitoring Reports (DMRs)**

NPDES permitted facilities throughout the State (e.g. Sunrise Capital, Port Allen Generating Station, Wailua WWTP, Chevron Hawaii Refinery, East Honolulu WWTP, HECO, Kahului Generating Station, Kulaimano WWTP, Papaikou-Paukaa WWTP, Hilo WWTP, and Keahole Point Fish) are required to monitor and submit bacteria, nutrient, and water quality indicator (turbidity and chlorophyll *a*) data via DMRs. Water quality data collected from control stations in receiving water bodies on Kauai, Maui, Oahu, and Hawaii between November 1, 2015 and October 31, 2018 are included in the 2018 IR assessment. Discharge monitoring reports help provide additional water quality information to the monitoring and analysis program to ensure that Hawaii's water resources are protected and restored.

### **Environmental Assessment Company (EAC)**

EAC is a private research company headed by Richard Brock, PhD. EAC collects nutrient and water quality indicator (turbidity and chlorophyll *a*) samples for the south-southeastern coast of Lanai, and the western Kona coast of Hawaii. Data that was collected between November 1, 2015 and October 31, 2017 were used in the 2018 IR assessment. All data follow a prepared methodology and comply with the West Hawaii Coastal Monitoring Program Monitoring Protocol Guidelines (1992). Laboratory analysis follows Standard Methods (1999).

### **Marine Research Consultants (MRC)**

MRC is a private research company headed by Steve Dollar, PhD. MRC collects nutrient and water quality indicator (turbidity and chlorophyll *a*) samples for Makena Resort Corporation to characterize coastal water quality (according to HAR §11-54-6), for Ocean Pointe (formerly the Ewa Marina) on Oahu and Makena Resort on Maui, respectively. All data were collected between November 1, 2015 and July 31, 2017 and follow a prepared sampling methodology and documented analysis methodology (Strickland and Parsons 1968, Grasshoff 1983), and utilize EPA rated laboratories (Marine Analytical Specialists).

### **Natural Energy Laboratory of Hawaii Authority (NELHA)**

NELHA is a state funded facility that provides the CWB with nutrient and water quality indicator (turbidity and chlorophyll *a*) data via their Annual Comprehensive Environmental Monitoring Report. The monitoring efforts fulfill regulatory requirements to ensure the protection of Keahole Point's environmental resources on Hawaii.

The data collected between November 1, 2015 and October 31, 2017 were used in the 2018 IR assessment. NEHLA has implemented the standard sampling procedure and analytical protocol of the August 31, 2004, HAR Ch. 11-54 for its quarterly ocean transect sampling program. The NELHA Water Quality Laboratory follows Standard Methods for the Examination of Water and Wastewater 20th Edition (Clesceri et al 1998) and EPA test methods for its analytical procedures.

### **Hui O Ka Wai Ola**

Hui O Ka Wai Ola is a non-profit program whose goal is to increase the capacity for monitoring water quality in Maui coastal waters. The program collects nutrient and water quality indicator (turbidity) data from the Maui shoreline. Data collected between June 2016 and October 2017 were used in the 2018 IR assessment. The program was developed with assistance from the CWB to ensure that data collected will meet the required quality assurance and quality control parameters. The program follows the 2017 CWB-approved Quality Assurance Project Plan.

### **Center for Biological Diversity (CBD)**

The CBD submitted a letter regarding ocean acidification for consideration in the 2018 IR. The letter contained information that consisted primarily of carbon dioxide concentrations, as well as pH and temperature values collected at various locations in Hawaii between June 2008 until mid-2018. The raw data was not provided to the CWB, and the letter was received after the request for data period had closed. The CWB has reviewed the letter that was submitted and is not able to address it in the context of the IR at this time.

## APPENDIX B: §305(b) Assessment of State Waters

**Table 1. KAUAI Inland Waters**

Assessed Water Body	Water Body Type	Scope of Assessment	Water Body ID	Season	Enterococcus	TN	NO <sub>3</sub> +NO <sub>4</sub>	TP	Turbidity	TSS	Other Pollutants	Category	TMDL Priority
Aakukui	Stream	EN	2-4-02		-	-	-	-	-	-		3	
Aliomanu	Stream	EN	2-1-36		-	-	-	-	-	-		3	
Anahola	Stream	EN	2-2-01	Dry	-	Ac	A	A	N	A		2,3,5	L
Anahola	Stream	EN	2-2-01	Wet	-	Ac	Ac	Ac	N	Ac		2,3,5	
Black Pot Beach Park	Estuary	EE	HI891354	NA	-	-	-	-	-	NA	NH <sub>4</sub> (-) Chl <i>a</i> (-)	3	
Hanakapiai	Stream	EN	2-1-10		-	-	-	-	-	-		3	
Hanalei	Stream	EN	2-1-19	Dry	N <sub>T</sub>	A	A	N	A <sub>T</sub>	A <sub>T</sub>		2,4a,5	TMDLs approved 2008 (Enterococcus, Turbidity & TSS), L (Nutrients)
Hanalei	Stream	EN	2-1-19	Wet	N <sub>T</sub>	A	A	A	A <sub>T</sub>	A <sub>T</sub>		2,4a	TMDLs approved 2008 (Enterococcus, Turbidity & TSS)
Hanalei Bay upstream of Dolphin	Estuary	EE	HIW00160	NA	- <sub>T</sub>	-	-	-	N <sub>T</sub>	NA	NH <sub>4</sub> (-) Chl <i>a</i> (-)	3,4a	TMDLs approved 2008 (Enterococcus & Turbidity)
Hanalei River (End of Weke Road)	Estuary	EE	HI385259	NA	N <sub>T</sub>	A	A	N	N <sub>T</sub>	NA	NH <sub>4</sub> (N) Chl <i>a</i> (A)	2,4a,5	TMDLs approved 2008 (Enterococcus & Turbidity), L (Nutrients)
Hanamaulu	Stream	EN	2-2-12	Dry	-	-	-	-	N	-		3,5	L
Hanamaulu	Stream	EN	2-2-12	Wet	-	-	-	-	N	-		3,5	

**Table 1. KAUAI Inland Waters**

Assessed Water Body	Water Body Type	Scope of Assessment	Water Body ID	Season	Enterococcus	TN	NO <sub>3</sub> +NO <sub>4</sub>	TP	Turbidity	TSS	Other Pollutants	Category	TMDL Priority
Hanapepe	Stream	EN	2-3-07	Dry	-	A	A	A	N	A		2,3,5	L
Hanapepe	Stream	EN	2-3-07	Wet	-	Ac	Ac	Ac	V	Ac		2,3,5	
Huleia	Stream	EN	2-2-15	Dry	N <sub>T</sub>	N <sub>T</sub>	N <sub>T</sub>	A <sub>T</sub>	V <sub>T</sub>	A <sub>T</sub>		4a	TMDLs approved 2008  (Entero, Nutrients,Turbidity & TSS)
Huleia	Stream	EN	2-2-15	Wet	N <sub>T</sub>	A <sub>T</sub>	A <sub>T</sub>	A <sub>T</sub>	A <sub>T</sub>	A <sub>T</sub>		4a	
Kalihiwai	Stream	EN	2-1-25		-	-	-	-	-	-		3	
Kapaa	Stream	EN	2-2-04	Dry	-	A	A	A	N	A		2,3,5	L
Kapaa	Stream	EN	2-2-04	Wet	-	A	A	A	N	A		2,3,5	
Kilauea	Stream	EN	2-1-28	Dry	-	A	A	A	N	A		2,3,5	L
Kilauea	Stream	EN	2-1-28	Wet	-	Ac	Ac	Ac	N	Ac		2,3,5	
Kipu	Stream	EN	2-3-01		-	-	-	-	-	-		3	
Lawai	Stream	EN	2-3-04	Dry	-	N	N	A	N	A		2,3,5	L
Lawai	Stream	EN	2-3-04	Wet	-	Ac	Ac	Ac	N	Ac		2,3,5	
Limahuli	Stream	EN	2-1-12	Dry	-	A	N	A	-	A		2,3,5	L
Limahuli	Stream	EN	2-1-12	Wet	-	-	-	-	Ac	-		2,3	
Lumahai	Stream	EN	2-1-15		-	-	-	-	-	-		3	
Mahinauli	Stream	EN	2-4-01		-	-	-	-	-	-		3	
Manoa	Stream	EN	2-1-13	Dry	-	Ac	Ac	Ac	N1	Ac		2,3,5	L
Manoa	Stream	EN	2-1-13	Wet	-	Ac	Ac	Ac	Nc	Ac		2,3,5	
Moloaa	Stream	EN	2-1-34	Dry	-	A	A	A	N	A		2,3,5	L
Moloaa	Stream	EN	2-1-34	Wet	-	-	-	-	N	-		3,5	



**Table 1. KAUAI Inland Waters**

Assessed Water Body	Water Body Type	Scope of Assessment	Water Body ID	Season	Enterococcus	TN	NO <sub>3</sub> +NO <sub>4</sub>	TP	Turbidity	TSS	Other Pollutants	Category	TMDL Priority
Nawiliwili	Stream	EN	2-2-13	Dry	N <sub>T</sub>	N <sub>T</sub>	N <sub>T</sub>	A <sub>T</sub>	V <sub>T</sub>	A <sub>T</sub>		4a	TMDLs approved 2008 (Enterococcus, Nutrients, Turbidity & TSS)
Nawiliwili	Stream	EN	2-2-13	Wet	N <sub>T</sub>	N <sub>T</sub>	N <sub>T</sub>	A <sub>T</sub>	A <sub>T</sub>	A <sub>T</sub>		4a	
Papaa	Stream	EN	2-1-35	Dry	-	N1	N1	Ac	N1	Ac		2,3,5	L
Papaa	Stream	EN	2-1-35	Wet	-	-	-	-	-	-		3	
Papakolea	Stream	EN	2-2-16	Dry	N <sub>T</sub>	N <sub>T</sub>	N <sub>T</sub>	N <sub>T</sub>	N <sub>T</sub>	N <sub>T</sub>		4a	TMDLs approved 2008 (Enterococcus, Nutrients, Turbidity & TSS)
Papakolea	Stream	EN	2-2-16	Wet	N <sub>T</sub>	N <sub>T</sub>	N <sub>T</sub>	N <sub>T</sub>	N <sub>T</sub>	N <sub>T</sub>		4a	
Puali	Stream	EN	2-2-14	Dry	N <sub>T</sub>	N <sub>T</sub>	N <sub>T</sub>	A <sub>T</sub>	N1 <sub>T</sub>	A <sub>T</sub>		4a	TMDLs approved 2008 (Enterococcus, Nutrients, Turbidity & TSS)
Puali	Stream	EN	2-2-14	Wet	N <sub>T</sub>	Nc <sub>T</sub>	N1 <sub>T</sub>	Ac <sub>T</sub>	Nc <sub>T</sub>	Ac <sub>T</sub>		4a	
Uhelekawawa	Stream	EN	2-2-Uhelekawawa		-	-	-	-	V	-		3,5	L
Wahiawa	Stream	EN	2-3-06	Dry	-	N1	N1	A	N1	A		2,3,5	L
Wahiawa	Stream	EN	2-3-06	Wet	-	Nc	Nc	Ac	Nc	Ac		2,3,5	L
Waikoko	Estuary	EE	HIW00162	NA	N	N	N	N	N <sub>T</sub>	NA	NH <sub>4</sub> (N) Chl <i>a</i> (A)	2,4a,5	TMDL approved 2008 (Turbidity & TSS),  L (Enterococcus & Nutrients)
Waikomo	Stream	EN	2-3-02	Dry	-	Nc	N1	Ac	N1	Ac		2,3,5	L
Waikomo	Stream	EN	2-3-02	Wet	-	Nc	Nc	Ac	Nc	Ac		2,3,5	

**Table 1. KAUAI Inland Waters**

Assessed Water Body	Water Body Type	Scope of Assessment	Water Body ID	Season	Enterococcus	TN	NO <sub>3</sub> +NO <sub>4</sub>	TP	Turbidity	TSS	Other Pollutants	Category	TMDL Priority
Wailua	Stream	EN	2-2-08	Dry	-	Ac	Ac	Ac	N	Ac		2,3,5	L
Wailua	Stream	EN	2-2-08	Wet	-	-	-	-	-	-		3	
Waimea	Stream	EN	2-4-04	Dry	-	A	A	N	N	A		2,3,5	L
Waimea	Stream	EN	2-4-04	Wet	-	Ac	Ac	Ac	V	Ac		2,3,5	
Waimea	Estuary	EE	2-4-04-E	NA	-	-	-	-	V	NA		3,5	L
Wainiha	Stream	EN	2-1-14	Dry	-	Ac	Ac	Ac	Ac	Ac		2,3	
Wainiha	Stream	EN	2-1-14	Wet	-	Ac	Ac	Ac	Ac	Ac		2,3	
Waioli	Estuary	EE	HIW00163	NA	N	A	N	N	N <sub>T</sub>	NA	NH <sub>4</sub> (N) Chl <i>a</i> (A)	2,4a,5	TMDL approved 2008 (Turbidity& TSS),  L (Entero & Nutrients)
Waioli	Stream	EN	2-1-18	Dry	<u>N</u>	A	A	A	<u>N</u>	A		<u>2,3,5</u>	<u>L</u>
Waioli	Stream	EN	2-1-18	Wet	-	-	-	-	-	-		3	
Waiopili	Stream	EN	2-3-99	Dry	-	-	-	-	-	-		3	
Waiopili	Stream	EN	2-3-99	Wet	N	-	-	-	N	-		3,5	L
Waipa	Estuary	EE	HIW00164	NA	N	A	A	N	N <sub>T</sub>	NA	NH <sub>4</sub> (N) Chl <i>a</i> (A)	2,4a,5	TMDL approved 2008 (Turbidity &TSS),  L (Entero & Nutrients)

**Table 1. KAUAI Inland Waters**

Assessed Water Body	Water Body Type	Scope of Assessment	Water Body ID	Season	Enterococcus	TN	NO <sub>3</sub> +NO <sub>4</sub>	TP	Turbidity	TSS	Other Pollutants	Category	TMDL Priority
Waipa	Stream	EN	2-1-17	Dry	-	A	A	A	N <sub>T</sub>	A <sub>T</sub>		2,3,4a	TMDLs approved 2008 (Turbidity & TSS)
Waipa	Stream	EN	2-1-17	Wet	-	-	-	-	-	-		3	

**Decision Codes:** - = insufficient data, -<sub>T</sub> = insufficient data (TMDL approved for parameter), **A** = attained, **A<sub>T</sub>** = attained (TMDL approved for parameter), **Ac** = attained (with combined seasonal data), **Ac<sub>T</sub>** = attained (with combined seasonal data) (TMDL approved for parameter), **N** = not attained, **N<sub>T</sub>** = not attained (TMDL approved for parameter), **Nc** = not attained (with combined seasonal data), **Nc<sub>T</sub>** = not attained (with combined data) (TMDL approved for parameter), **N1** = not attained (2x the standard), **N1<sub>T</sub>** = not attained (2x the standard, TMDL approved for parameter), **N1c** = not attained (with combined data, 2x the standard), **V** = visual listing from 2001 - 2004, **V<sub>T</sub>** = visual listing from 2001 - 2004 (TMDL approved for parameter), **Y** = previous listing from 1998 or earlier; **Category:** **1** = all uses attained, **2** = some uses attained, **3** = not enough data to evaluate, **4** = at least one use not attained, but no TMDL needed, **4a** = TMDL approved, **5** = at least one use not attained, TMDL needed; **TMDL Priority Codes:** High (**H**), Medium (**M**), & Low (**L**) priority for initiating TMDL development within the current monitoring and assessment cycle; **IP** = TMDL development in progress; **NA** = not applicable; **P** = Pearl Harbor Standards; prior assessment confirmed with new data are shaded gray; **category changes are bolded, italicized, underlined & shaded gray.**

**Table 2. KAUAI Marine Waters**

Most marine water bodies are located (\*) within their respective CWB watershed assessment unit. The watershed assessment unit provides a holistic view of waters within the State.

*Watershed Assessment Unit with Individual Water Bodies	Water Body ID	Water Body Type	Wet/Dry Criteria	Enterococcus	TN	NO <sub>3</sub> +NO <sub>4</sub>	NH <sub>4</sub>	TP	Turbidity	Chl <i>a</i>	Other Pollutants	Category	TMDL Priority
AAKUKUI WATERSHED	TBD	C	Wet	-	-	-	-	-	-	-		3	
*Pakala (Makaweli)	HI468251	C	Wet	-	-	-	-	-	-	-		3	
AEPO WATERSHED	TBD	B	Dry	-	-	-	-	-	-	-		3	
*Kukuiula Bay	HI619039	B	Dry	-	-	-	-	-	-	-		3	
AEPO WATERSHED	TBD	C	Dry	-	-	-	-	-	-	-		3	
*Spouting Horn Beach Co. Park	HI951651	C	Dry	-	-	-	-	-	-	-		3	
ANAHOLA WATERSHED	TBD	C	Wet	-	-	-	-	-	-	-		3	
*Anahola Beach	HI823433	C	Wet	A	-	-	-	-	N	-		2,3,5	L
HANALEI WATERSHED	TBD	B	Wet	A <sub>T</sub>	-	-	-	-	N <sub>T</sub>	-		2,3,4a	TMDLs approved 2012 (Entero & Turbidity)
*Hanalei Bay (Landing)	HIW00093	B	Wet	N <sub>T</sub>	-	-	-	-	N <sub>T</sub>	-		3,4a	
*Hanalei Bay (Pavilion)	HIW00092	B	Wet	A <sub>T</sub>	-	-	-	-	N <sub>T</sub>	-		2,3,4a	
HANAMAULA WATERSHED	TBD	B	Wet	-	-	-	-	-	-	-		3	
*Hanama'ulu Bay (Beach)	HIW00094	B	Wet	N	-	-	-	-	N	-		3,5	L
HANAPEPE WATERSHED	TBD	B	Wet	-	A	A	N	A	<u>N</u>	A		2,3, <u>5</u>	<u>L</u>
*Port Allen Boat Harbor (Port Allen Pier)	HIW00026	B	Wet	-	A	A	N	A	N	A		2,3,5	L
KALIIKAI CENTER WATERSHED	TBD	C	Wet	-	-	-	-	-	-	-		3	
*Anini Beach Park	HI418744	C	Wet	A	-	-	-	-	N	-		2,3,5	L
KALIIKA WEST WATERSHED	TBD	C	Wet	-	-	-	-	-	-	-		3	
*Anini Beach	HI338804	C	Wet	-	-	-	-	-	-	-		3	
KALIIHWAI WATERSHED	TBD	C	Wet	A	-	-	-	-	N	-		2,3,5	L
*Kalihiwai Bay	HI264001	C	Wet	A	-	-	-	-	N	-		2,3,5	L
KAPAA WATERSHED	TBD	C	Wet	A	-	-	-	-	N	-		2,3,5	L

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Most marine water bodies are located (\*) within their respective CWB watershed assessment unit. The watershed assessment unit provides a holistic view of waters within the State.

*Watershed Assessment Unit with Individual Water Bodies	Water Body ID	Water Body Type	Wet/Dry Criteria	Enterococcus	TN	NO <sub>3</sub> +NO <sub>4</sub>	NH <sub>4</sub>	TP	Turbidity	Chl <i>a</i>	Other Pollutants	Category	TMDL Priority
*Kealia	HI402035	C	Wet	A	-	-	-	-	N	-		2,3,5	L
KAPILIMAO WATERSHED	TBD	C	Dry	-	-	-	-	-	-	-		3	
*Kekaha Beach Co. Park	HI530569	C	Dry	A	-	-	-	-	N	-		2,3,5	L
*Kikiaola Beach	HI119207	C	Dry	-	-	-	-	-	-	-		3	
KAULAULA WATERSHED	TBD	C	Dry	-	-	-	-	-	-	-		3	
*Polihale State Park	HI247403	C	Dry	A	-	-	-	-	N	-		2,3,5	L
KAUMAKANI WATERSHED	TBD	C	Wet	A	-	-	-	-	N	-		2,3,5	L
*Salt Pond Beach Co. Park	HI701008	C	Wet	A	A	N	N	A	N	N		2,5	L
KAWAIOLOA WATERSHED	TBD	C	Wet	A	-	-	-	-	N	-		2,3,5	L
*Lydgate Park	HI798758	C	Wet	A	-	-	-	-	N	-		2,3,5	L
*Nukoli Beach Park	HI502794	C	Wet	A	-	-	-	-	N	-		2,3,5	L
LAWAI WATERSHED	TBD	C	Wet	-	-	-	-	-	-	-		3	
*Lawa'i Kai	HI434882	C	Wet	-	-	-	-	-	-	-		3	
*Palama Beach (Nomilu)	HI665178	C	Wet	-	-	-	-	-	-	-		3	
LIMAHULI WATERSHED	TBD	C	Wet	A	-	-	-	-	N	-		2,3,5	L
*Kee Beach	HI124511	C	Wet	A	-	-	-	-	N	-		2,3,5	L
LUMAHAI WATERSHED	TBD	C	Wet	-	-	-	-	-	-	-		3	
*Lumaha'i Beach	HI889639	C	Wet	N	-	-	-	-	N	-		3,5	L
MAHAULEPU WATERSHED	TBD	C	Dry	<u>A</u>	-	-	-	-	<u>N</u>	-		<u>2, 3,5</u>	<u>L</u>
*Gillin's Beach	HI976083	C	Dry	-	-	-	-	-	-	-		3	
*Haula Beach	HI277808	C	Dry	-	-	-	-	-	-	-		3	
*Kawaihoa Beach	HI698776	C	Dry	-	-	-	-	-	-	-		3	
*Shipwreck Beach	HI358435	C	Dry	A	-	-	-	-	N	-		2,3,5	L
MANOA WATERSHED	TBD	C	Wet	A	-	-	-	-	N	-		2,3,5	L
*Haena Beach Park	HI554189	C	Wet	A	-	-	-	-	N	-		2,3,5	L
*Tunnels Beach	HI936087	C	Wet	-	-	-	-	-	-	-		3	

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*Watershed Assessment Unit with Individual Water Bodies	Water Body ID	Water Body Type	Wet/Dry Criteria	Enterococcus	TN	NO <sub>3</sub> +NO <sub>4</sub>	NH <sub>4</sub>	TP	Turbidity	Chl <i>a</i>	Other Pollutants	Category	TMDL Priority
MOIKEHA WATERSHED	TBD	C	Wet	-	-	-	-	-	-	-		3	
*Kapa'a Beach Co. Park	HI972832	C	Wet	A	-	-	-	-	N	-		2,3,5	L
NIU WATERSHED	TBD	C	Dry	-	-	-	-	-	-	-		3	
*Pacific Missile Range Facility/Barking Sands Beach	HI176480	C	Dry	A	A	A	A	A	N	A		2,5	L
NAWILIWILI WATERSHED	TBD	B	Dry	A	A	N	N	A	N	<u>N</u>		2,5	M
*Nawiliwili Bay (Kalapaki Beach)	HIW00114	B	Dry	A	A	N	N	A	N	N		2,5	M
*Nawiliwili Bay (Nawiliwili Harbor)	HIW00115	B	Dry	A	A	N	N	A	N	<u>N</u>		2,5	M
WAHIAWA WATERSHED	TBD	C	Wet	-	-	-	-	-	-	-		3	
*Glass Beach	HI949505	C	Wet	-	-	-	-	-	-	-		3	
WAHIAWA WATERSHED	TBD	B	Wet	-	-	-	-	-	-	-		3	
*Wahiawa Bay	HI179708	B	Wet	-	-	-	-	-	-	-		3	
WAIKAEA WATERSHED	TBD	C	Wet	-	-	-	-	-	<u>N</u>	-		<u>2, 3,5</u>	<u>L</u>
*Waipouli Beach	HI682678	C	Wet	A	-	-	-	-	N	-		2,3,5	L
WAIKOMO WATERSHED	TBD	C	Dry	A	-	-	-	-	N	-		2,3,5	L
*Beach House Beach	HI156238	C	Dry	A	-	-	-	-	N	-		2,3,5	L
*Brennecke Beach	HI166521	C	Dry	A	-	-	-	-	N	-		2,3,5	L
*Koloa Landing	HI955435	C	Dry	N	-	-	-	-	N	-		3,5	L
*Po'ipu Beach Co. Park	HI396850	C	Dry	A	-	-	-	-	N	-		2,3,5	L
*Prince Kuhio Park	HI742228	C	Dry	-	-	-	-	-	-	-		3	

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*Watershed Assessment Unit with Individual Water Bodies	Water Body ID	Water Body Type	Wet/Dry Criteria	Enterococcus	TN	NO <sub>3</sub> +NO <sub>4</sub>	NH <sub>4</sub>	TP	Turbidity	Chl <i>a</i>	Other Pollutants	Category	TMDL Priority
*Sheraton Beach	HI542569	C	Dry	A	-	-	-	-	N	-		2,3,5	L
*Wai'ohai Beach	HI392082	C	Dry	-	-	-	-	-	-	-		3	
WAILEIA WATERSHED	TBD	B	Wet	-	-	-	-	-	-	-		3	
*Princeville	HI520271	B	Wet	-	-	-	-	-	-	-		3	
WAILUA WATERSHED	TBD	C	Wet	A	-	-	-	-	<u>N</u>	-		<b>2,3,5</b>	<b><u>L</u></b>
*Wailua (Wailua River Station)	HI606168	C	Wet	A	-	-	-	-	N	-		2,3,5	L
WAIMEA WATERSHED	TBD	C	Dry	<u>N</u>	-	-	-	-	<u>N</u>	-		<b>3,5</b>	<b><u>L</u></b>
*Waimea Bay Beach (Near River Station)	HI862821	C	Dry	N	-	-	-	-	-	-		3,5	L
*Waimea Rec. Pier St. Park	HI245235	C	Dry	N	-	-	-	-	N	-		3,5	L
WAINIHA WATERSHED	TBD	C	Wet	-	-	-	-	-	-	-		3	
*Kepuhi Beach	HI344813	C	Wet	-	-	-	-	-	-	-		3	
*Wainiha Bay	HI417823	C	Wet	-	-	-	-	-	-	-		3	
WAIOLI WATERSHED	TBD	B	Wet	A <sub>T</sub>	-	-	-	-	N <sub>T</sub>	-		2,3,4a	
*Hanalei Bay (Waioli Beach)	HIW00091	B	Wet	A <sub>T</sub>	-	-	-	-	N <sub>T</sub>	-		2,3,4a	TMDLS approved 2012 (Entero & Turbidity)
WAIPA WATERSHED	TBD	B	Wet	-	-	-	-	-	-	-		3	
*Waikoko Bay	HI330114	B	Wet	-	-	-	-	-	-	-		3	

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**Table 3. KAUAI Marine Waters - Not Associated with a Watershed AU**

Scopes of Assessment Not Associated with Watershed	Water Body ID	Water Body Type	Wet/Dry Criteria	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	NH <sub>4</sub>	TP	Turbidity	Chl <i>a</i>	Other Pollutants	Category	TMDL Priority
Aliomanu Beach	HI710019	C	Wet	-	-	-	-	-	-	-		3	
Anahola Beach	HI270737	C	Wet	-	-	-	-	-	-	-		3	
Donkey Park	HI853903	C	Wet	-	-	-	-	-	-	-		3	
Hanakapi'ai Beach	HI797414	C	Wet	-	-	-	-	-	-	-		3	
Hanalei Bay Mooring Station	HIW00157	B	Wet	N	-	-	-	-	-	-		3,4a	TMDLs approved 2012 (Entero & Turbidity)
Hanama'ulu Bay	HIW00063	B	Wet	-	-	-	-	-	N	-		3,5	L
Hanapepe Bay	HIW00095	B	Wet	-	-	-	-	-	-	-		3	
Hanapepe Bay-from breakwater to shore and near shore waters to 30' from Puolo Point to Paakehi Point	HIW00048	B	Wet	-	Y	Y	-	Y	-	-		3,5	L
Kahili Beach	HI533519	C	Wet	-	-	-	-	-	-	-		3	
Kalalau Beach	HI908803	C	Wet	-	-	-	-	-	-	-		3	
Kauapea Beach (Secret Beach)	HI669328	C	Wet	-	-	-	-	-	-	-		3	
Kikiaola Boat Harbor	HIW00112	B	Dry	-	-	-	-	-	-	-		3	
Kipu Kai	HI266627	C	Wet	-	-	-	-	-	-	-		3	
Kukuiula Bay	HIW00113	B	Dry	-	-	-	-	-	-	-		3	
Larsens Beach	HI860960	C	Wet	-	-	-	-	-	-	-		3	
Maha'uilepu Beach	HI533799	C	Dry	-	-	-	-	-	-	-		3	
Mana Point	HIW00184	C	Dry	-	N	A	N	A	A	N		2,3,5	L
Miloli'i	HI333210	C	Dry	-	-	-	-	-	-	-		3	
Moloa'a Bay	HI547745	C	Wet	-	-	-	-	-	-	-		3	
Na Pali Coast State Park	HI709808	C	Wet	-	-	-	-	-	-	-		3	
Nawiliwili Bay (Offshore)	HIW00116	B	Wet	-	-	N	N	-	N	N		3,5	M



**Table 3. KAUAI Marine Waters - Not Associated with a Watershed AU**

Scopes of Assessment Not Associated with Watershed	Water Body ID	Water Body Type	Wet/Dry Criteria	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	NH <sub>4</sub>	TP	Turbidity	Chl <i>a</i>	Other Pollutants	Category	TMDL Priority
Nawiliwili Bay-from breakwater to shore	HIW00059	B	Dry	-	Y	Y	-	Y	Y	-		3,5	M
Nu'alolo	HI945520	C	Wet	-	-	-	-	-	-	-		3	
Pacific Missile Range Facility (Open Coastal)	HIW00212	C	Dry	-	<b>A</b>	<b>A</b>	<b>N</b>	<b>A</b>	-	<u><b>A</b></u>		<b>2,3,5</b>	<b>L</b>
Papa'a Bay	HI130639	C	Wet	-	-	-	-	-	-	-		3	
Pila'a Beach	HI363048	C	Wet	-	-	-	-	-	-	-		3	
Port Allen	HIW00185	C	Wet	-	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	-	<b>A</b>		<b>2,3</b>	
Port Allen Boat Harbor	HIW00120	B	Wet	-	-	-	-	-	-	-		3	
Wahiawa Bay	HIW00121	B	Wet	-	-	-	-	-	-	-		3	
Waiakalua Iki Beach	HI505816	C	Wet	-	-	-	-	-	-	-		3	
Waiakalua Nui Beach	HI371632	C	Wet	-	-	-	-	-	-	-		3	
Wailua (Open Coastal)	HIW00215	C	Wet	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>N</b>		<b>2,3,5</b>	<b>L</b>
Waimea Bay Beach-near shore waters to 18' from Kekaha Oomano Point-1.5 miles SE of Mahinaui Stream	HIW00057	C	Dry	-	-	-	-	-	Y	-	TSS	3,5	L

**Decision Codes:** - = insufficient data, -<sub>T</sub> = insufficient data (TMDL approved for parameter), **A** = attained, **A<sub>T</sub>** = attained (TMDL approved for parameter), **Ac** = attained (with combined seasonal data), **Ac<sub>T</sub>** = attained (with combined seasonal data) (TMDL approved for parameter), **N** = not attained, **N<sub>T</sub>** = not attained (TMDL approved for parameter), **Nc** = not attained (with combined seasonal data), **Nc<sub>T</sub>** = not attained (with combined data) (TMDL approved for parameter), **NI** = not attained (2x the standard), **NI<sub>T</sub>** = not attained (2x the standard, TMDL approved for parameter), **NIc** = not attained (with combined data, 2x the standard), **V** = visual listing from 2001 - 2004, **V<sub>T</sub>** = visual listing from 2001 - 2004 (TMDL approved for parameter), **Y** = previous listing from 1998 or earlier; **Category:** **1** = all uses attained, **2** = some uses attained, **3** = not enough data to evaluate, **4** = at least one use not attained, but no TMDL needed, **4a** = TMDL approved, **5** = at least one use not attained, TMDL needed; **TMDL Priority Codes:** High (**H**), Medium (**M**), & Low (**L**) priority for initiating TMDL development within the current monitoring and assessment cycle; **IP** = TMDL development in progress; **NA** = not applicable; **P** = Pearl Harbor Standards; prior assessment confirmed with new data are shaded gray; **category changes are bolded, italicized, underlined & shaded gray.**

**Table 4. OAHU Inland Waters**

Assessed Water Body	Water Body Type	Scope of Assessment	Water Body ID	Season	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	TP	Turbidity	TSS	Other Pollutants	Category	TMDL Priority
Ahuimanu	Stream	EN	3-2-07.03	Wet	N	-	-	-	N	-		3,5	L
Ahuimanu	Stream	EN	3-2-07.03	Dry	N	-	-	-	N	-		3,5	
Aiea	Stream	EN	3-4-03	Wet	-	N1c	N1c	-	V	-	Trash	3,5	H (IP)
Aiea	Stream	EN	3-4-03	Dry	-	N1c	N1c	-	V	-	Trash	3,5	
Ala Wai Canal & Boat Harbor	Estuary	EE	HIW00050	NA	V	V <sub>T</sub>	V	V <sub>T</sub>	V	NA	NH <sub>4</sub> (-) Chl <i>a</i> (-), Pathogens, Metals, TSS (V), Organochlorine Pesticides, Lead, Fish Consumption Advisory	3,4a,5	TMDLs approved 1996 & revised 2002 (Canal TN & TP), L (Others)
Ala Wai Canal & Harobr (Canal-Diamond Head Stn)	Estuary	EE	HIW00085	NA	N	N	-	N	N	NA	NH <sub>4</sub> (-), Chl <i>a</i> (N)	3,5	L
Ala Wai Canal & Harbor (Manoa & Palolo KHS Stn)	Estuary	EE	HIW00036	NA	-	N	-	N	N	NA	NH <sub>4</sub> (-), Chl <i>a</i> (N)	3,5	L
Ala Wai Canal & Harobr (Manoa Stream Fork Stn)	Estuary	EE	HIW00035	NA	-	N	-	-	N	NA	NH <sub>4</sub> (-), Chl <i>a</i> (-), Fecal	3,5	L

**Table 4. OAHU Inland Waters**

Assessed Water Body	Water Body Type	Scope of Assessment	Water Body ID	Season	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	TP	Turbidity	TSS	Other Pollutants	Category	TMDL Priority
Ala Wai Canal & Harbor (Manoa-Palolo Stream Mouth Stn)	Estuary	EE	HIW00087	NA	-	N	-	N	N	NA	NH <sub>4</sub> (-), Chl <i>a</i> (N)	3,5	L
Ala Wai Canal & Harbor (McCully Bridge Stn)	Estuary	EE	HIW00086	NA	N	-	-	-	-	NA	NH <sub>4</sub> (-) Chl <i>a</i> (-)	3,5	L
Ala Wai Canal & Harbor (Palolo Stream Fork)	Estuary	EE	HIW00034	NA	-	N	-	-	N	NA	NH <sub>4</sub> (-) Chl <i>a</i> (-), Fecal	3,5	L
Anahulu	Estuary	EE	3-6-08-E		-	V	V	V	V	-		3,5	L
Halawa	Stream	EN	3-4-02		-	V	V	V	V	-		3,5	M
Hammer Point	Estuary (P)	EN	HIW00188	NA	A	-	-	-	-	NA	NH <sub>4</sub> (-) Chl <i>a</i> (-)	2,3	
Heeia	Stream	EN	3-2-08	Dry	-	N	N	A	A	A		2,3,5	L
Heeia	Stream	EN	3-2-08	Wet	-	A	A	A	A	A		2,3	
Helemano	Stream	EN	3-6-07.02		-	V	V	V	V	-		3,5	L
Honouliuli	Stream	EN	3-4-11		-	-	-	-	-	-		3	
Iroquois Point	Estuary (P)	EE	HI412839	NA	A	-	-	-	-	NA	NH <sub>4</sub> (-) Chl <i>a</i> (-)	2,3	
Kaaawa	Stream	EN	3-1-19		-	V	V	V	V	-		3,5	L
Kaalaea	Stream	EN	3-2-05	Dry	-	N	N	A	N	A		2,3,5	L
Kaalaea	Stream	EN	3-2-05	Wet	-	N	N	A	A	A		2,3,5	
Kaelepulu	Stream	EN	3-2-14		-	V	V	V	V	-		3,5	M
Kaelepulu Stream-Kailua Beach	Estuary	EE	HIW00182	NA	N	N	-	N	N	NA	NH <sub>4</sub> (-) Chl <i>a</i> (N)	3,5	M

**Table 4. OAHU Inland Waters**

Assessed Water Body	Water Body Type	Scope of Assessment	Water Body ID	Season	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	TP	Turbidity	TSS	Other Pollutants	Category	TMDL Priority
Kahaluu	Estuary	EE	3-2-07-E		N	-	-	-	N	-		3,5	L
Kahaluu	Stream	EN	3-2-07.02	Dry	N	A	N	A	N	A		2,5	L
Kahaluu	Stream	EN	3-2-07.02	Wet	N	-	-	-	A	-		2,3,5	
Kahana	Stream	EN	3-1-18	Dry	-	A	N	A	N	A		2,3,5	M
Kahana	Stream	EN	3-1-18	Wet	-	Ac	Ac	Ac	Ac	Ac		2,3	
Kahawainui	Stream	EN	3-1-07		-	V	V	V	V	-		3,5	L
Kaipapau	Stream	EN	3-1-10		-	-	-	-	-	-		3	
Kalauao	Stream	EN	3-4-04-01	Dry	-	N1	N1	-	N	-		3,5	M
Kalauao	Stream	EN	3-4-04-01	Wet	-	N	N	-	Ac	-		2,3,5	
Kalihi	Stream	EN	3-3-11	Dry	-	-	N	A	N	A	Trash	2,3,5	M
Kalihi	Stream	EN	3-3-11	Wet	-	N	N	A	A	A	Trash	2,3,5	M
Kaluanui	Stream	EN	3-1-13		-	-	-	-	-	-		3	
Kamooalii (Trib to Kaneohe Stream)	Stream	Kamooalii Trib	3-2-10.01	Dry	-	V <sub>T</sub>	V	V <sub>T</sub>	N	-		3,4a	TMDLs approved 2010 (TN & TP), L (Others)
Kamooalii (Trib to Kaneohe Stream)	Stream	Kamooalii Trib	3-2-10.01	Wet	-	V <sub>T</sub>	V	V <sub>T</sub>	-	-		3,4a	
Kaneohe	Stream	EN	3-2-10	Dry	-	V <sub>T</sub>	V <sub>T</sub>	V <sub>T</sub>	N <sub>T</sub>	- <sub>T</sub>	Dieldrin	3,4a,5	
Kaneohe	Stream	EN	3-2-10	Wet	-	V <sub>T</sub>	V <sub>T</sub>	V <sub>T</sub>	N <sub>T</sub>	- <sub>T</sub>	Dieldrin	3,4a,5	
Kapaa	Stream	EN	3-2-13-Kapaa		-	V <sub>T</sub>	V	V <sub>T</sub>	V	V <sub>T</sub>	Metals, Lead	3,4a,5	TMDLs approved 2007 (TN, TP & TSS)
Kapakahi	Stream	EN	3-4-Kapakahi	Wet	-	N	N	N	-	-	Trash	3,5	H (IP)
Kapakahi	Stream	EN	3-4-Kapakahi	Dry	-	-	-	-	V	-	Trash	3,5	
Kapalama	Stream	EN	3-3-10		-	V	V	V	V	-	Trash	3,5	L
Kaukonahua	Stream	EN	3-6-06.02	Dry	-	N	N	A	N1	A		2,3,5	M
Kaukonahua	Stream	EN	3-6-06.02	Wet	-	N	N	A	N1	A		2,3,5	

**Table 4. OAHU Inland Waters**

Assessed Water Body	Water Body Type	Scope of Assessment	Water Body ID	Season	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	TP	Turbidity	TSS	Other Pollutants	Category	TMDL Priority
Kaukonahua (N Fork)	Stream	EN	3-6-06.02.2		-	V <sub>T</sub>	A	A	V <sub>T</sub>	A		2,3,4a	TMDLs approved 2010 (TN & Turbidity)
Kaukonahua (S Fork)	Stream	EN	3-6-06.02.1		-	V <sub>T</sub>	A	A	V <sub>T</sub>	A		2,3,4a	
Kaupuni	Stream	EN	3-5-05		-	V	V	V	V	-	Trash	3,5	L
Kawa	Stream	EN	3-2-11		-	V <sub>T</sub>	V	V <sub>T</sub>	V	V <sub>T</sub>		3,4a	TMDLs approved 2002 & revised 2005 (TN, TP&TSS)
Kawailoa	Stream	EN	3-6-08.01		-	V	V	V	V	-		3,5	L
Kawainui	Stream	EN	3-2-13		-	-	-	-	-	-		3	
Kawainui Marsh	Wetland	EW	3-2-13-W		-	-	-	-	-	-		3	
Kawela	Stream	EN	3-1-04		-	-	-	-	-	-		3	
Keaahala	Stream	EN	3-2-09	Dry	-	N	N	N	N	A	Trash	2,3,5	L
Keaahala	Stream	EN	3-2-09	Wet	-	N	N	A	A	A	Trash	2,3,5	
Kiikii	Estuary	EE	3-6-06-E		-	-	-	-	-	-		3	
Koloa	Stream	EN	3-1-09	Both	-	-	-	-	-	-		3	
Makiki	Stream	EN	ALWS06	Dry	-	N	-	N	-	-		3,5	L
Manoa	Stream	EN	3-3-07.01		-	V	V	V	V	-	Dieldrin, Chlordane	3,5	L
Maunawili	Stream	EN	3-2-13.01		-	V	V	V	V	-	Trash	3,5	M
Moanalua	Stream	EN	3-3-12.01	Dry	-	Nc	Ac	Ac	N1	Ac	Trash	2,3,5	L
Moanalua	Stream	EN	3-3-12.01	Wet	-	Nc	Ac	Ac	Ac	Ac	Trash	2,3,5	L

**Table 4. OAHU Inland Waters**

Assessed Water Body	Water Body Type	Scope of Assessment	Water Body ID	Season	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	TP	Turbidity	TSS	Other Pollutants	Category	TMDL Priority
Nuuanu	Stream	EN	3-3-09	Dry	-	N	N	N	N	N	Trash, Dieldrin, Chlordane	3,5	L
Nuuanu	Stream	EN	3-3-09	Wet	-	N	N	A	N	A	Trash, Dieldrin, Chlordane	2,3,5	
Opaepa	Stream	EN	3-6-07.01		-	V	V	V	V	-		3,5	L
Palolo	Stream	EN	3-3-07.01.1		-	-	-	-	-	-	Trash	3,5	L
Paukai	Estuary	EE	3-6-07-E		-	V	V	V	V	-		3,5	L
Pearl Harbor	Estuary (P)	EE	HIW00006	NA	-	N	-	N	A		NH <sub>4</sub> (-), Chl <i>a</i> (N)	2,3,5	H
Pearl Harbor-harbor waters and near shore waters to 30' from Keehi Lagoon to Oneula Beach	Estuary (P)	EE	HIW00119	NA	-	Y	Y	Y	N	NA	NH <sub>4</sub> (-), Chl <i>a</i> (-), TSS (Y), PCBs, Fish Consumption Advisory	3,5	H
Poamoho	Stream	EN	3-6-06.01		-	V	V	V	V	-		3,5	M
Punaluu	Stream	EN	3-1-16	Dry	-	A	A	A	A	A		2,3	
Punaluu	Stream	EN	3-1-16	Wet	-	A	Ac	A	A	A		2,3	
Salt Lake	Lake	EL	3-3-12-SaltLake		-	-	-	-	N	-	Trash	3,5	L
Wahiawa Reservoir	Reservoir	ER	3-6-06.02-R		-	V	V	V	V	-		3,5	M
Waiahole	Stream	EN	3-2-04	Dry	N	A	N	N	N	A		2,5	L
Waiahole	Stream	EN	3-2-04	Wet	N	Ac	Nc	Ac	A	Ac		2,5	
Waiawa	Stream	EN	3-4-06	Wet	-	A	A	A	V	A	Trash	2,3,5	M
Waiawa	Stream	EN	3-4-06	Dry	-	V	V	V	V	-	Trash	3,5	

**Table 4. OAHU Inland Waters**

Assessed Water Body	Water Body Type	Scope of Assessment	Water Body ID	Season	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	TP	Turbidity	TSS	Other Pollutants	Category	TMDL Priority
Waihee	Stream	EN	3-2-07.01	Wet	N	V	V	V	A	-		2,3,5	L
Waihee	Stream	EN	3-2-07.01	Dry	N	N	N	A	N	A		2,5	
Waikane	Stream	EN	3-2-02	Dry	-	A	N	A	A	A		2,3,5	L
Waikane	Stream	EN	3-2-02	Wet	-	Ac	Nc	Ac	Ac	Ac		2,3,5	
Waikele	Stream	EN	3-4-10	Dry	-	N1	N1	-	-	-		3,5	H (IP)
Waikele	Stream	EN	3-4-10	Wet	-	N1	N1	-	N	-		3,5	
Waialele	Stream	EN	3-1-08	Wet	-	-	-	-	N1	-		3,5	L
Waimalu	Stream	EN	3-4-05	Wet	-	-	-	-	N1	-		3,5	M
Waimanalo	Stream	EN	3-2-15		-	V <sub>T</sub>	V <sub>T</sub>	V <sub>T</sub>	V <sub>T</sub>	V <sub>T</sub>		3,4a	TMDLs approved 2001 (Nutrients & Sediment)
Waimano	Stream	EN	3-4-06.01		-	-	-	-	V	-		3,5	M
Waiola	Stream	EN	3-2-07.04	Wet	-	-	-	-	V	-		3,5	L
Waiola	Stream	EN	3-2-07.04	Dry	-	-	-	-	V	-		3,5	

**Decision Codes:** - = insufficient data, -<sub>T</sub> = insufficient data (TMDL approved for parameter), **A** = attained, **A<sub>T</sub>** = attained (TMDL approved for parameter), **Ac** = attained (with combined seasonal data), **Ac<sub>T</sub>** = attained (with combined seasonal data) (TMDL approved for parameter), **N** = not attained, **N<sub>T</sub>** = not attained (TMDL approved for parameter), **Nc** = not attained (with combined seasonal data), **Nc<sub>T</sub>** = not attained (with combined data) (TMDL approved for parameter), **N1** = not attained (2x the standard), **N1<sub>T</sub>** = not attained (2x the standard, TMDL approved for parameter), **N1c** = not attained (with combined data, 2x the standard), **V** = visual listing from 2001 - 2004, **V<sub>T</sub>** = visual listing from 2001 - 2004 (TMDL approved for parameter), **Y** = previous listing from 1998 or earlier; **Category:** **1** = all uses attained, **2** = some uses attained, **3** = not enough data to evaluate, **4** = at least one use not attained, but no TMDL needed, **4a** = TMDL approved, **5** = at least one use not attained, TMDL needed; **TMDL Priority Codes:** High (**H**), Medium (**M**), & Low (**L**) priority for initiating TMDL development within the current monitoring and assessment cycle; **IP** = TMDL development in progress; **NA** = not applicable; **P** = Pearl Harbor Standards; prior assessment confirmed with new data are shaded gray; **category changes are bolded, italicized, underlined & shaded gray.**

**Table 5. OAHU Marine Waters**

Most marine water bodies are located (\*) within their respective CWB watershed assessment unit. The watershed assessment unit provides a holistic view of waters within the State.

*Watershed Assessment Unit with Individual Water Bodies	Water Body ID	Water Body Type	Wet/Dry Criteria	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	NH <sub>4</sub>	TP	Turbidity	Chl <i>a</i>	Other Pollutants	Category	TMDL Priority
ALA WAI WATERSHED	TBD	C	-	A	-	-	-	-	N	-		3,2,5	L
*Ala Moana Beach (Center)	HIW00001	C	Wet	A	A	A	A	A	N	N		2,5	L
*Ala Moana Beach (Diamond Head)	HIW00002	C	Wet	A	A	A	N	A	N	N		2,5	L
*Ala Moana Beach (Ewa)	HI473893	C	Wet	A	-	-	-	-	-	-		2,3	
*Fort DeRussy Beach	HI045715	C	Wet	A	-	-	-	-	-	-		2,3	
*Gray's Beach	HI941499	C	Wet	A	N	-	-	-	N	N		2,3,5	L
*Kahanamoku Beach	HI366432	C	Wet	A	A	A	A	A	N	N		2,5	L
*Kahanamoku Lagoon	HIW00003	C	Wet	N	-	-	-	-	-	-		3,5	L
*Kapi'olani Park	HI733929	C	Dry	A	-	-	-	-	-	-		2,3	
*Kuhio Beach	HI681782	C	Dry	A	A	N	N	A	N	N		2,5	L
*Kuhio Beach (Public Bath)	HI851298	C	Dry	A	A	A	N	A	N	N		2,5	L
*Magic Island	HI529142	C	Wet	A	-	-	-	-	N	-		2,3,5	L
*Outrigger Canoe Club Beach	HI943325	C	Dry	A	-	-	-	-	-	-		2,3	
*Point Panic	HI197311	C	Wet	A	-	-	-	-	-	-		2,3	
*Royal-Moana Beach	HI898947	C	Wet	A	A	N	N	A	N	N		2,5	L
*Sans Souci	HI617815	C	Dry	A	N	N	N	A	N	N		2,5	L
*Tongg's	HI248913	C	Dry	A	-	-	-	-	-	-		2,3	
*Waikiki Beach Center	HI244505	C	Wet	A	-	-	-	-	-	-		2,3	
*War Memorial Natatorium	HI624259	C	Dry	-	-	-	-	-	-	-		3	
ANAHULU WATERSHED	TBD	B	Wet	A	-	-	-	-	N	-		2,3,5	L
*Waialua Bay	HI451176	B	Wet	A	-	-	-	-	N	-		2,3,5	L
HAAHAIONE WATERSHED	TBD	B	Dry	-	-	-	-	-	-	-		3	
*Maunalua Beach Park	HI423413	B	Dry	A	-	-	-	-	-	-		2,3	
HANAUMA WATERSHED	TBD	B	Dry	A	-	-	-	-	N	-		<u>3,5</u>	L
*Hanauma Bay (Beach)	HIW00096	B	Dry	A	A	N	N	A	N	A		2,5	L
HEEIA WATERSHED	TBD	B	Wet	-	-	-	-	-	-	-		3	



**Table 5. OAHU Marine Waters**

Most marine water bodies are located (\*) within their respective CWB watershed assessment unit. The watershed assessment unit provides a holistic view of waters within the State.

*Watershed Assessment Unit with Individual Water Bodies	Water Body ID	Water Body Type	Wet/Dry Criteria	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	NH <sub>4</sub>	TP	Turbidity	Chl <i>a</i>	Other Pollutants	Category	TMDL Priority
*Heeia Kea Small Boat Harbor	HIW00097	B	Wet	A	N	-	-	-	-	N		2,3,5	L
KAAAWA WATERSHED	TBD	C	Wet	-	-	-	-	-	-	-		3	
*Kaaawa Beach Park	HI580360	C	Wet	A	-	-	-	-	-	-		2,3	
*Kalae oio Beach Park	HI860454	C	Wet	-	-	-	-	-	-	-		3	
*Kananelu Beach	HI196120	C	Wet	A	-	-	-	-	-	-		2,3	
KAELEPULU WATERSHED	TBD	C	Wet	A	-	-	-	-	N	-		2,3,5	L
*Kailua Beach Park	HI482719	C	Wet	A	A	A	N	A	N	N		2,5	L
*Lanikai Beach	HI596989	C	Wet	A	-	-	-	-	N	-		2,3,5	L
*Lanikai Boat Ramp	HIW00193	C	Wet	A	-	-	-	-	-	-		2,3	
KALOI WATERSHED	TBD	C	Wet	A	-	-	-	-	N	-		2,3,5	L
*Barbers Point Beach Co. Park	HI593573	C	Wet	-	-	-	-	-	-	-		3	
*Ewa Beach	HI767464	C	Wet	A	-	-	-	-	-	-		2,3	
*Ewa Beach Park	HI319095	C	Wet	A	A	A	N	A	N	N		2,5	L
*Nimitz Beach	HI682233	C	Wet	A	-	-	-	-	-	-		2,3	
*Oneula Beach Park	HI825419	C	Wet	A	-	-	-	-	-	-		2,3	
*White Plains Beach	HI267023	C	Wet	A	-	-	-	-	N	-		2,3,5	L
KAHALUU WATERSHED	TBD	B	Wet	-	-	-	-	-	-	-		3	
*Laenani Beach Co. Park	HI930562	B	Wet	N	-	-	-	-	-	-		3,5	L
KAHANA WATERSHED	TBD	B	Wet	-	-	-	-	-	-	-		3	
*Kahana Bay Park	HIW00102	B	Wet	N	N	-	-	N	N	-		3,5	M
KAHAWAI WATERSHED	TBD	C	-	A	-	-	-	-	N	-		2,3,5	M
*Bellows Field Beach Co. Park (Waimanalo Stream Mouth)	HIW00081	C	Wet	N	A	N	N	N	-	N		2,3,5	M
*Kaiona Beach	HI234342	C	Dry	A	-	-	-	-	-	-		2,3	
*Waimanalo Bay St. Rec. Area (Park)	HIW00008	C	Dry	A	-	-	-	-	-	-		2,3	

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*Watershed Assessment Unit with Individual Water Bodies	Water Body ID	Water Body Type	Wet/Dry Criteria	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	NH <sub>4</sub>	TP	Turbidity	Chl <i>a</i>	Other Pollutants	Category	TMDL Priority
*Waimanalo Bay Station (Waimanalo Beach Co. Park North)	HIW00175	C	Dry	A	-	-	-	-	-	-		2,3	
*Waimanalo Beach Co. Park (South)	HIW00174	C	Dry	A	N	N	N	A	N	N		2,5	M
KAHAWAINUI WATERSHED	TBD	C	Dry	-	-	-	-	-	-	-		3	
*Laie Bay	HI472847	C	Dry	A	N	-	-	N	N	N		2,3,5	L
KAIPAPAU WATERSHED	TBD	C	Dry	-	-	-	-	-	-	-		3	
*Kaipapa'u Beach	HI787959	C	Dry	A	-	-	-	-	-	-		2,3	
KALUAKAUILA WATERSHED	TBD	C	Dry	-	-	-	-	-	-	-		3	
*Ka'ena Point	HI645485	C	Dry	A	-	-	-	-	-	-		2,3	
*Yokohama Bay	HI269028	C	Dry	A	-	-	-	-	-	-		2,3	
KALUNAWAIKAALA WATERSHED	TBD	C	Wet	-	-	-	-	-	-	-		3	
*Pupukea Beach Co. Park	HI193495	C	Wet	A	-	-	-	-	-	-		2,3	
KAMAILEUNU WATERSHED	TBD	C	Dry	A	-	-	-	-	-	-		2,3	
*Mauna Lahilahi Beach	HI639551	C	Dry	A	-	-	-	-	-	-		2,3	
KAMILONUI WATERSHED	TBD	B	Dry	-	-	-	-	-	-	-		3	
*Hawaii Kai Station	HIW00117	B	Dry	A	-	-	-	-	-	-		2,3	
KAUPUNI WATERSHED	TBD	B	Dry	A	-	-	-	-	N	-		2,3,5	L
*Pokai Bay	HIW00007	B	Dry	A	A	N	N	A	N	N		2,3,5	L
*Waianae Regional Park	HI668527	B	Dry	-	-	-	-	-	-	-		3	
KAWA WATERSHED	TBD	B	Wet	-	-	-	-	-	-	-		3	
*Kaneohe Bay at Kualoa	HI272280	B	Wet	-	-	-	-	-	-	-		2,3	
KAWAIHAPAI WATERSHED	TBD	C	Dry	-	-	-	-	-	-	-		3	
*Camp Harold Erdman	HI309544	C	Dry	-	-	-	-	-	-	-		3	
*Kealia Beach	HI612698	C	Dry	A	-	-	-	-	-	-		2,3	
*Mokule'ia Beach Co. Park	HI220308	C	Dry	A	-	-	-	-	-	-		2,3	

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*Watershed Assessment Unit with Individual Water Bodies	Water Body ID	Water Body Type	Wet/Dry Criteria	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	NH <sub>4</sub>	TP	Turbidity	Chl <i>a</i>	Other Pollutants	Category	TMDL Priority
KAWAINUI WATERSHED	TBD	C	Dry	A	-	-	-	-	-	-		2,3	
*Fort Hase Beach	HI410735	C	Dry	A	-	-	-	-	-	-		2,3	
*Kalama Beach	HI071892	C	Dry	A	-	-	-	-	-	-		2,3	
*Kapoho Point	HIW00192	C	Dry	N	-	-	-	-	-	-		3,5	L
*North Beach	HI426406	C	Dry	A	-	-	-	-	-	-		2,3	
*Oneawa Beach	HI952205	C	Dry	A	N	-	-	N	N	N		2,3,5	L
KAWELA WATERSHED	TBD	C	Dry	-	-	-	-	-	-	-		3	
*Kawela Bay	HI698581	C	Dry	A	N	-	-	N	N	N		2,3,5	L
*Turtle Bay	HI776670	C	Dry	A	-	-	-	-	-	-		2,3	
KEAMANEA WATERSHED	TBD	C	Wet	A	-	-	-	-	N	-		2,3,5	L
*Chun's Reef	HI950962	C	Wet	A	-	-	-	-	N	-		2,3,5	L
*Kawaihoa Beach	HI312049	C	Wet	-	-	-	-	-	-	-		3	
*Laniakea Beach	HI183312	C	Wet	A	-	-	-	-	-	-		2,3	
*Papa'iloa Beach	HI478834	C	Wet	A	-	-	-	-	-	-		2,3	
KEEAU WATERSHED	TBD	C	Dry	-	-	-	-	-	-	-		3	
*Kea'au Beach Co. Park	HI730738	C	Dry	A	-	-	-	-	-	-		2,3	
*Ohikilolo Beach (Barking Sands)	HI731423	C	Dry	A	-	-	-	-	-	-		2,3	
KOKO CRATER WATERSHED	TBD	C	Dry	A	-	-	-	-	N	-		2,3,5	L
*Halona Cove	HI132946	C	Dry	A	-	-	-	-	-	-		2,3	
*Kaloko (Queens) Beach	HI353985	C	Dry	A	-	-	-	-	-	-		2,3	
*Sandy Beach	HI776760	C	Dry	A	N	N	N	A	N	N		2,5	L
*Wawamalu Beach Park	HI329454	C	Dry	A	-	-	-	-	-	-		2,3	
KOLOA WATERSHED	TBD	C	Dry	-	-	-	-	-	-	-		3	
*Kokololio Beach	HI767708	C	Dry	A	-	-	-	-	-	-		2,3	
*Pounders Beach	HI587568	C	Dry	A	-	-	-	-	-	-		2,3	
KUALOA WATERSHED	TBD	C	Wet	A	-	-	-	-	N	-		2,3,5	L

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*Kualoa Co. Regional Park	HI848207	C	Wet	A	N	N	N	A	N	N		2,5	L
*Kualoa Sugar Mill Beach	HI484535	C	Wet	A	-	-	-	-	-	-		2,3	
KULIOUOU WATERSHED	TBD	B	Dry	-	-	-	-	-	-	-		3	
*Kuli'ou'ou	HI360513	B	Dry	N	-	-	-	-	-	-		3,5	L
*Paiko Lagoon	HI598745	B	Dry	-	-	-	-	-	-	-		3	
LOKO EA	TBD	B	Wet	-	-	-	-	-	-	-		3	
*Haleiwa Beach Park	HI994019	B	Wet	A	N	-	-	N	-	N		2,3,5	L
MAAKUA WATERSHED	TBD	C	Dry	-	-	-	-	-	-	-		3	
*Aukai Beach Co. Park	HI145110	C	Dry	A	-	-	-	-	-	-		2,3	
*Hauula Beach Park	HI854492	C	Dry	A	-	-	-	-	-	-		2,3	
MAILILI WATERSHED	TBD	C	Dry	A	-	-	-	-	N	-		2,3,5	L
*Lualualei Beach Co. Park	HI800877	C	Dry	A	-	-	-	-	-	-		2,3	
*Ma'ili Beach Park	HI627464	C	Dry	A	-	-	-	-	N	-		2,3,5	L
*Maipalaoa Beach	HI280966	C	Dry	A	-	-	-	-	-	-		2,3	
MAKAHA WATERSHED	TBD	C	Dry	A	-	-	-	-	N	-		2,3,5	L
*Laukinui Beach	HI739818	C	Dry	A	-	-	-	-	-	-		2,3	
*Makaha Beach	HI632106	C	Dry	A	A	N	N	A	N	N		2,5	L
*Papaoneone Beach	HI990625	C	Dry	A	-	-	-	-	-	-		2,3	
MAKAIWA WATERSHED	TBD	C	Dry	-	-	-	-	-	-	-		3	
*Hawaiian Electric Beach Park	HI628972	C	Dry	A	-	-	-	-	-	-		2,3	
*Kahe Point Beach Co. Park	HI548986	C	Dry	A	-	-	-	-	-	-		2,3	
*Manner's Beach	HI717740	C	Dry	A	-	-	-	-	-	-		2,3	
MAKAIWA WATERSHED	TBD	B	Dry	A	-	-	-	-	N	-		2,3,5	L
*Ihilani Honu Lagoon	HI815093	B	Dry	A	-	-	-	-	-	-		2,3	
*Ihilani Kohola Lagoon	HI515191	B	Dry	A	-	-	-	-	N	-		2,3,5	L
*Ihilani Naia Lagoon	HI685981	B	Dry	A	-	-	-	-	-	-		2,3	

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*Ihilani Ulua Lagoon	HI550240	B	Dry	A	-	-	-	-	-	-		2,3	
MAKAPUU WATERSHED	TBD	C	Dry	A	-	-	-	-	N	-		2,3,5	L
*Makapuu Beach	HI723399	C	Dry	A	-	-	-	-	N	-		2,3,5	L
*Kaupo Beach Co. Park	HI791127	C	Dry	A	-	-	-	-	-	-		2,3	
MAKAUA WATERSHED	TBD	C	Wet	-	-	-	-	-	-	-		3	
*Makaua Beach Co. Park	HI542752	C	Wet	-	-	-	-	-	-	-		3	
*Swanzy Beach Co. Park	HI151343	C	Wet	A	-	-	-	-	-	-		2,3	
MALAEKAHANA WATERSHED	TBD	C	Dry	-	-	-	-	-	-	-		3	
*Kahuku Golf Course	HI989341	C	Dry	-	-	-	-	-	-	-		3	
*Malaekahana State Park	HI137325	C	Dry	A	-	-	-	-	N	-		2,3,5	L
MAKUA WATERSHED	TBD	C	Dry	-	-	-	-	-	-	-		3	
*Makua Beach	HI915061	C	Dry	A	-	-	-	-	-	-		2,3	
MOANALUA WATERSHED	TBD	B	Wet	<u>N</u>	-	-	-	-	<u>N</u>	-		<u>3,5</u>	<u>L</u>
*Keehi Lagoon	HIW00009	B	Wet	N	-	-	-	-	-	-		3,5	L
<b><i>*Keehi Lagoon (Point X)</i></b>	<b><i>HIW00010</i></b>	B	Wet	N	N	-	-	N	-	N		3,5	L
NANAKULI WATERSHED	TBD	C	Dry	A	-	-	-	-	N	-		2,3,5	L
*Nanakuli Beach Park	HI467413	C	Dry	A	-	-	-	-	N	-		2,3,5	L
NUI WATERSHED	TBD	C	Dry	-	-	-	-	-	-	-		3	
*Niu	HI157026	C	Dry	-	-	-	-	-	-	-		3	
NUUANU WATERSHED	TBD	C	Wet	A	-	-	-	-	-	-		2,3	
*Kakaako Waterfront	HI302297	C	Wet	A	-	-	-	-	-	-		2,3	
*Sand Island (Shoreline)	HI714359	C	Wet	A	A	N	A	A	N	N		2,5	L
OIO WATERSHED	TBD	C	Dry	-	-	-	-	-	-	-		3	
*Kaihalulu Beach	HI668562	C	Dry	A	-	-	-	-	-	-		2,3	
*Kuilima Cove	HI412224	C	Dry	A	-	-	-	-	-	-		2,3	
PAKULENA WATERSHED	TBD	C	Dry	-	-	-	-	-	-	-		3	

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*Banzai Beach	HI908378	C	Dry	-	-	-	-	-	-	-		3	
*Pipeline, The	HI188157	C	Dry	A	-	-	-	-	-	-		2,3	
PAPAAKOKO WATERSHED	TBD	C	Dry	-	-	-	-	-	-	-		3	
*Kaluanui Beach	HI410842	C	Dry	-	-	-	-	-	-	-		3	
PAUKAUILA WATERSHED	TBD	B	Wet	-	-	-	-	-	-	-		3	
*Kaiaka Bay	HIW00106	B	Wet	N	N	N	N	-	N	N		3,5	L
PAUMALU WATERSHED	TBD	C	Dry	A	-	-	-	-	N	-		2,3,5	L
*Ehukai Beach Co. Park	HI531535	C	Dry	A	-	-	-	-	-	-		2,3	
*Kaunala Beach	HI622160	C	Dry	A	-	-	-	-	-	-		2,3	
*Pahipahi'alu Beach	HI575467	C	Dry	A	-	-	-	-	-	-		2,3	
*Sunset Beach	HI860544	C	Dry	A	A	N	N	A	N	N		2,5	L
*Waiale'e	HI109657	C	Dry	A	-	-	-	-	-	-		2,3	
PORTLOCK WATERSHED	TBD	B	Dry	-	-	-	-	-	-	-		3	
*Koke'e Beach Park	HI147970	B	Dry	A	-	-	-	-	-	-		2,3	
*Koko Kai Beach Park	HI467112	B	Dry	A	-	-	-	-	-	-		2,3	
PUNALUU WATERSHED	TBD	C	Wet	-	-	-	-	-	-	-		3	
*Punaluu Beach Park	HI148836	C	Wet	N	-	-	-	-	-	-		3,5	L
ULEHAWA WATERSHED	TBD	C	Dry	-	-	-	-	-	-	-		3	
*Nanaikapono Beach	HI504242	C	Dry	A	-	-	-	-	-	-		2,3	
*Pu'uohulu Beach	HI960731	C	Dry	A	-	-	-	-	-	-		2,3	
*Ulehawa Beach	HI784010	C	Dry	A	-	-	-	-	-	-		2,3	
WAIALAENUI WATERSHED	TBD	C	Dry	-	-	-	-	-	-	-		3	
*Diamond Head	HI544313	C	Dry	A	-	-	-	-	-	-		2,3	
*Ka'alawai Beach	HI253930	C	Dry	N	-	-	-	-	-	-		3,5	L
*Kahala Beach Shoreline	HI514582	C	Dry	A	-	-	-	-	-	-		2,3	
*Kaluahole Beach	HI391176	C	Dry	A	-	-	-	-	-	-		2,3	

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*Kuilei Cliffs	HI431723	C	Dry	A	-	-	-	-	-	-		2,3	
*Waiālae Beach Co. Park	HI997368	C	Dry	A	-	-	-	-	-	-		2,3	
WAIALUA WATERSHED	TBD	C	Dry	-	-	-	-	-	-	-		3	
*Mokule'ia Beach	HI908786	C	Dry	-	-	-	-	-	-	-		3	
*Pu'uiki	HI437024	C	Dry	A	-	-	-	-	-	-		2,3	
WAILELE WATERSHED	TBD	C	Dry	-	-	-	-	-	-	-		3	
*Laniloa Peninsula (Beach)	HI201901	C	Dry	A	-	-	-	-	-	-		2,3	
WAILUPE WATERSHED	TBD	C	Dry	-	-	-	-	-	-	-		3	
*Kahala Hilton Beach	HI173325	C	Dry	A	-	-	-	-	-	-		2,3	
*Kawaiku'i Beach Park	HI304424	C	Dry	A	-	-	-	-	-	-		2,3	
*Wailupe Beach Park	HI432476	C	Dry	-	-	-	-	-	-	-		3	
WAIMANALO WATERSHED	TBD	C	Wet	A	A	A	N	A	N	A		2,5	M
*Bellows Field Beach Co. Park (N. Runway)	HI798011	C	Wet	A	A	A	N	A	N	A		2,5	M
WAIMEA WATERSHED	TBD	C	Wet	A	-	-	-	-	N	-		2,3,5	L
*Kapaeloa Beach	HI904851	C	Wet	-	-	-	-	-	-	-		3	
*Waimea Bay	HIW00128	C	Wet	A	-	-	-	-	N	-		2,3,5	L
WAIPUHI WATERSHED	TBD	C	Dry	-	-	-	-	-	-	-		3	
*Makao Beach	HI147212	C	Dry	A	-	-	-	-	-	-		2,3	

**Decision Codes:** - = insufficient data, -<sub>T</sub> = insufficient data (TMDL approved for parameter), A = attained, A<sub>T</sub> = attained (TMDL approved for parameter), A<sub>c</sub> = attained (with combined seasonal data), A<sub>cT</sub> = attained (with combined seasonal data) (TMDL approved for parameter), N = not attained, N<sub>T</sub> = not attained (TMDL approved for parameter), N<sub>c</sub> = not attained (with combined seasonal data), N<sub>cT</sub> = not attained (with combined data) (TMDL approved for parameter), N1 = not attained (2x the standard), N1<sub>T</sub> = not attained (2x the standard, TMDL approved for parameter), N1<sub>c</sub> = not attained (with combined data, 2x the standard), V = visual listing from 2001 - 2004, V<sub>T</sub> = visual listing from 2001 - 2004 (TMDL approved for parameter), Y = previous listing from 1998 or earlier; **Category:** 1 = all uses attained, 2 = some uses attained, 3 = not enough data to evaluate, 4 = at least one use not attained, but no TMDL needed, 4a = TMDL approved, 5 = at least one use not attained, TMDL needed; **TMDL Priority Codes:** High (H), Medium (M), & Low (L) priority for initiating TMDL development within the current monitoring and assessment cycle; **IP** = TMDL development in progress; **NA** = not applicable; **P** = Pearl Harbor Standards; prior assessment confirmed with new data are shaded gray; **category changes are bolded, italicized, underlined & shaded gray.**

**Table 6. OAHU Marine Waters - Not Associated with a Watershed AU**

Scopes of Assessment Not Associated with Watershed	Water Body ID	Water Body Type	Wet/Dry Criteria	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	NH <sub>4</sub>	TP	Turbidity	Chl <i>a</i>	Other Pollutants	Category	TMDL Priority
Ala Wai Boat Harbor (Ala Moana Bridge Station)	HIW00125	B	Wet	N	N	-	-	N	N	N		3,5	L
Campbell Industrial	HIW00187	C	Dry	-	A	A	N	A	A	N		2,3,5	L
Ewa (Open Coastal)	HIW00189	C	Wet	A	A	A	A	A	A	A		2	
Hanaka'ilio Beach	HI646411	C	Dry	-	-	-	-	-	-	-		3	
Hanauma Bay (Oceanic)	HIW00017	O	NA	-	-	N	N	-	-	N		3,5	M
Barbers Point Harbor	HIW00088	B	Dry	-	-	-	-	-	-	-		3	
Haleiwa Boat Harbor	HIW00127	B	Wet	-	-	-	-	-	-	-		3	
Hanauma Bay	HIW00058	B	Dry	-	-	-	-	-	-	-	Trash	3,5	M
Honolulu Harbor	HIW00100	B	Wet	-	-	-	-	-	-	-		3	
Honolulu Harbor & Shore Area-Honolulu Waterfront-Aloha Tower	HIW00061	B	Wet	-	-	A	N	-	A	-	Trash	2,3,5	L
Honolulu Harbor & Shore Area-Kewalo Basin	HIW00051	B	Wet	-	Y	Y	-	Y	N	-	TSS (Y), Trash	3,5	L
Honolulu Harbor-near shore waters to 30' from one mile NW of Honolulu Harbor/Sand Island Channel to Waikiki Beach	HIW00049	B	Wet	Y	Y	Y	-	Y	N	-	Pathogens, Metals,  TSS (Y)	3,5	L
Kahana Bay-near shore waters to 30' from Mahie Point to a point one mile north of Kahana Bay Station	HIW00062	B	Wet	-	-	-	-	-	N	-	TSS (Y)	3,5	M
Kahana Park	HIW00103	B	Wet	N	-	-	-	-	-	-		3,5	M
Kahe Point (Open Coastal)	HIW00214	C	Dry	-	<u>N</u>	<u>N</u>	A	-	-	-		<u>2, 3,5</u>	<u>L</u>
Kailua Bay (Open Coastal)	HIW00194	C	Dry	A	A	A	N	A	A	A		2,5	L
Kaneohe Bay (Beach Park)	HIW00004	B	Wet	-	N	-	-	N	N	N		3,5	L



**Table 6. OAHU Marine Waters - Not Associated with a Watershed AU**

Scopes of Assessment Not Associated with Watershed	Water Body ID	Water Body Type	Wet/Dry Criteria	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	NH <sub>4</sub>	TP	Turbidity	Chl <i>a</i>	Other Pollutants	Category	TMDL Priority
Kaneohe Bay (Central Region)	HIW00013	B	Wet	-	N	N	N	-	N	-		3,5	L
Kaneohe Bay (Kokokahi Pier)	HIW00005	B	Wet	N	N	-	-	N	N	N		3,5	L
Kaneohe Bay (Northern Region)	HIW00012	B	Wet	-	N	N	N	-	N	-		3,5	L
Kaneohe Bay (Southern Region)	HIW00011	B	Wet	N	N	N	N	-	N	-		3,5	L
Kaneohe Bay-near shore waters at mouths of Kaneohe and Kawa Streams	HIW00054	B	Wet	-	Y	Y	-	Y	N	-	TSS (Y)	3,5	L
Keehi Lagoon waters and near shore waters to 30' from lagoon mouth to Pearl Harbor	HIW00055	B	Wet	-	Y	Y	-	Y	N	-	TSS (Y)	3,5	L
Kewalo Basin	HIW00126	C	Wet	-	N	-	-	N	N	N		3,5	L
Ko Olina	HIW00089	B	Dry	-	-	-	-	-	-	-		3	
Kuilei Cliffs Beach Park	HIW00064	C	Dry	-	-	-	-	-	-	-		3	
Makaua Beach Co. Park	HIW00066	C	Wet	-	-	-	-	-	-	-		3	
Mamala Bay (Fort Kamehameha Offshore)	HIW00190	C	Wet	-	A	A	A	A	A	N		2,3,5	L
Mamala Bay (Oceanic)	HIW00015	O	NA	-	N	-	-	-	-	N		3,5	L
Mamala Bay (Sand Island Offshore)	HIW00014	C	Wet	A	A	A	A	A	A	A		2	
Maunalua Bay	HIW00016	C	Dry	-	N	N	N	-	-	N		3,5	L
Mikilua Beach Park	HIW00186	C	Dry	A	-	-	-	-	-	-		2,3	
Ocean Pointe C	HIW00132	C	Wet	-	A	A	A	A	A	N		2,3,5	L
Ocean Pointe Control	HIW00129	C	Wet	-	A	A	A	A	<u>N</u>	N		2,3,5	L
Ocean Pointe E	HIW00130	C	Wet	-	A	A	A	A	A	N		2,3,5	L

**Table 6. OAHU Marine Waters - Not Associated with a Watershed AU**

Scopes of Assessment Not Associated with Watershed	Water Body ID	Water Body Type	Wet/Dry Criteria	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	NH <sub>4</sub>	TP	Turbidity	Chl <i>a</i>	Other Pollutants	Category	TMDL Priority
Ocean Pointe W	HIW00131	C	Wet	-	A	A	A	A	<u>N</u>	N		2,3,5	L
Ocean Pointe KA	HIW00210	C	Wet	-	A	A	A	A	<u>N</u>	N		2,3,5	L
Ocean Pointe PR	HIW00211	C	Wet	-	A	A	A	A	A	N		2,3,5	L
Paiko Peninsula to Koko Head	HIW00118	B	Dry	-	-	-	-	-	-	-		3	
Pokai Bay (Oceanic)	HIW00019	O	NA	-	N	-	-	-	-	N		3,5	L
Pokai Bay (Open Coastal)	HIW00018	C	Dry	A	A	A	A	A	N	A		2,5	L
Queen's Surf Beach Park	HIW00069	C	Dry	-	-	-	-	-	-	-		3	
Sand Island Point #3	HIW00181	C	Wet	-	N	-	-	-	N	N		3,5	L
Sandy Beach (Open Coastal)	HIW00191	C	Dry	-	A	A	<u>A</u>	A	A	<u>A</u>		2,3	
Waialua/Kaiaka Bays near shore waters to 60' from Puaena Point to a point 1.5 miles W of Kaiaka Point	HIW00083	B	Wet	-	Y	Y	-	Y	N	-	TSS (Y)	3,5	L
Waianae Boat Harbor	HIW00124	B	Dry	-	-	-	-	-	-	-		3	

**Decision Codes:** - = insufficient data, -<sub>T</sub> = insufficient data (TMDL approved for parameter), A = attained, A<sub>T</sub> = attained (TMDL approved for parameter), Ac = attained (with combined seasonal data), Ac<sub>T</sub> = attained (with combined seasonal data) (TMDL approved for parameter), N = not attained, N<sub>T</sub> = not attained (TMDL approved for parameter), Nc = not attained (with combined seasonal data), Nc<sub>T</sub> = not attained (with combined data) (TMDL approved for parameter), NI = not attained (2x the standard), NI<sub>T</sub> = not attained (2x the standard, TMDL approved for parameter), NIc = not attained (with combined data, 2x the standard), V = visual listing from 2001 - 2004, V<sub>T</sub> = visual listing from 2001 - 2004 (TMDL approved for parameter), Y = previous listing from 1998 or earlier; **Category:** 1 = all uses attained, 2 = some uses attained, 3 = not enough data to evaluate, 4 = at least one use not attained, but no TMDL needed, 4a = TMDL approved, 5 = at least one use not attained, TMDL needed; **TMDL Priority Codes:** High (H), Medium (M), & Low (L) priority for initiating TMDL development within the current monitoring and assessment cycle; **IP** = TMDL development in progress; **NA** = not applicable; **P** = Pearl Harbor Standards; prior assessment confirmed with new data are shaded gray; **category changes are bolded, italicized, underlined & shaded gray.**

**Table 7. MOLOKAI Inland Waters**

Assessed Water Body	Water Body Type	Scope of Assessment	Water Body ID	Season	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	TP	Turbidity	TSS	Other Pollutants	Category	TMDL Priority
Honoulimaloo	Stream	EN	4-2-02		-	-	-	-	-	-		3	
Honouliwai	Stream	EN	4-2-03	Wet	-	-	-	-	Ac	-		2,3	
Kamalo	Stream	EN	4-2-14		-	-	-	-	-	-		3	
Pelekunu	Stream	EN	4-1-09	Dry	-	-	-	-	A	-		2,3	
Waialua	Stream	EN	4-2-04	Wet	-	A	A	A	A	A		2,3	
Waialua	Stream	EN	4-2-04	Dry	-	Ac	Ac	Ac	N1	Ac		2,3,5	L
Wailau	Stream	EN	4-1-15		-	-	-	-	-	-		3	

**Decision Codes:** - = insufficient data, -<sub>T</sub> = insufficient data (TMDL approved for parameter), **A** = attained, **A<sub>T</sub>** = attained (TMDL approved for parameter), **Ac** = attained (with combined seasonal data), **Ac<sub>T</sub>** = attained (with combined seasonal data) (TMDL approved for parameter), **N** = not attained, **N<sub>T</sub>** = not attained (TMDL approved for parameter), **Nc** = not attained (with combined seasonal data), **Nc<sub>T</sub>** = not attained (with combined data) (TMDL approved for parameter), **N1** = not attained (2x the standard), **N1<sub>T</sub>** = not attained (2x the standard, TMDL approved for parameter), **N1c** = not attained (with combined data, 2x the standard), **V** = visual listing from 2001 - 2004, **V<sub>T</sub>** = visual listing from 2001 - 2004 (TMDL approved for parameter), **Y** = previous listing from 1998 or earlier; **Category:** **1** = all uses attained, **2** = some uses attained, **3** = not enough data to evaluate, **4** = at least one use not attained, but no TMDL needed, **4a** = TMDL approved, **5** = at least one use not attained, TMDL needed; **TMDL Priority Codes:** High (**H**), Medium (**M**), & Low (**L**) priority for initiating TMDL development within the current monitoring and assessment cycle; **IP** = TMDL development in progress; **NA** = not applicable; **P** = Pearl Harbor Standards; prior assessment confirmed with new data are shaded gray; **category changes are bolded, italicized, underlined & shaded gray.**

**Table 8. MOLOKAI Marine Waters**

Most marine water bodies are located (\*) within their respective watershed assessment unit. The watershed assessment unit provides a holistic view of waters within the State.

*Watershed Assessment Unit with Individual Water Bodies	Water Body ID	Water Body Type	Wet/Dry Criteria	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	NH <sub>4</sub>	TP	Turbidity	Chl <i>a</i>	Other Pollutants	Category	TMDL Priority
HALAWA WATERSHED	TBD	C	Wet	-	-	-	-	-	-	-		3	
*Halawa Beach Park	HI928793	C	Wet	-	-	-	-	-	-	-		3	
KOLO WATERSHED	TBD	C	Dry	-	-	-	-	-	-	-		3	
*Kolo Wharf	HI928768	C	Dry	-	-	-	-	-	-	-		3	
MO'OMOMI WATERSHED	TBD	C	Dry	-	-	-	-	-	-	-		3	
*Mo'omomi Beach	HI204811	C	Dry	-	-	-	-	-	V	-		3,5	L

**Decision Codes:** - = insufficient data, -<sub>T</sub> = insufficient data (TMDL approved for parameter), **A** = attained, **A<sub>T</sub>** = attained (TMDL approved for parameter), **Ac** = attained (with combined seasonal data), **Ac<sub>T</sub>** = attained (with combined seasonal data) (TMDL approved for parameter), **N** = not attained, **N<sub>T</sub>** = not attained (TMDL approved for parameter), **Nc** = not attained (with combined seasonal data), **Nc<sub>T</sub>** = not attained (with combined data) (TMDL approved for parameter), **N1** = not attained (2x the standard), **N1<sub>T</sub>** = not attained (2x the standard, TMDL approved for parameter), **N1c** = not attained (with combined data, 2x the standard), **V** = visual listing from 2001 - 2004, **V<sub>T</sub>** = visual listing from 2001 - 2004 (TMDL approved for parameter), **Y** = previous listing from 1998 or earlier; **Category:** **1** = all uses attained, **2** = some uses attained, **3** = not enough data to evaluate, **4** = at least one use not attained, but no TMDL needed, **4a** = TMDL approved, **5** = at least one use not attained, TMDL needed; **TMDL Priority Codes:** High (**H**), Medium (**M**), & Low (**L**) priority for initiating TMDL development within the current monitoring and assessment cycle; **IP** = TMDL development in progress; **NA** = not applicable; **P** = Pearl Harbor Standards; prior assessment confirmed with new data are shaded gray; **category changes are bolded, italicized, underlined & shaded gray.**

**Table 9. MOLOKAI Marine Waters - Not Associated with a Watershed AU**

Scopes of Assessment Not Associated with Watershed	Water Body ID	Water Body Type	Wet/Dry Criteria	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	NH <sub>4</sub>	TP	Turbidity	Chl <i>a</i>	Other Pollutants	Category	TMDL Priority
Awahua Beach	HI702920	C	Dry	-	-	-	-	-	-	-		3	
Fagans Beach	HI571680	C	Dry	-	-	-	-	-	-	-		3	
Halena Beach	HI417163	C	Dry	-	-	-	-	-	-	-		3	
Hale O Lono Harbor	HIW00090	B	Dry	-	-	-	-	-	-	-		3	
Honouli Malo'o	HI783671	C	Dry	-	-	-	-	-	-	-		3	
Honouli Wai	HI376731	C	Dry	-	-	-	-	-	-	-		3	
Iliopi'i Beach	HI681345	C	Dry	-	-	-	-	-	-	-		3	
Kahalepohaku Beach	HI191374	C	Dry	-	-	-	-	-	-	-		3	
Kakahai'a Beach Park	HI939514	C	Dry	-	-	-	-	-	-	-		3	
Kamaka'ipo Beach	HI923737	C	Dry	-	-	-	-	-	-	-		3	
Kanalukaha Beach	HI559049	C	Dry	-	-	-	-	-	-	-		3	
Kapukahehu Beach	HI941577	C	Dry	-	-	-	-	-	-	-		3	
Kapukuwahine Beach	HI565164	C	Dry	-	-	-	-	-	-	-		3	
Kaunakakai Boat Harbor	HIW00109	B	Dry	-	-	-	-	-	-	-		3	
Kaunakakai Harbor	HIW00110	B	Dry	-	-	-	-	-	-	-		3	
Kaunala Beach	HI726225	C	Dry	-	-	-	-	-	-	-		3	
Kaupoa Beach	HI481092	C	Dry	-	-	-	-	-	-	-		3	
Kawa'aloa Bay	HI384043	C	Dry	-	-	-	-	-	V	-		3,5	L
Kawakiunui	HI114962	C	Dry	-	-	-	-	-	-	-		3	
Kepuhi Beach	HI287930	C	Dry	-	-	-	-	-	-	-		3	
Kiowea Park (Kamehameha Coconut Grove)	HI206014	C	Dry	-	-	-	-	-	-	-		3	
Lighthouse Beach	HI934213	C	Dry	-	-	-	-	-	-	-		3	
Murphy Beach Park	HI138494	C	Dry	-	-	-	-	-	-	-		3	
Oneali'i Beach Park	HI904462	C	Dry	-	-	-	-	-	-	-		3	
Papaloa Beach	HI301825	C	Dry	-	-	-	-	-	-	-		3	
Papohaku Beach	HI556777	C	Dry	-	-	-	-	-	-	-		3	
Pelekunu	HI443237	C	Wet	-	-	-	-	-	-	-		3	

**Table 9. MOLOKAI Marine Waters - Not Associated with a Watershed AU**

Scopes of Assessment Not Associated with Watershed	Water Body ID	Water Body Type	Wet/Dry Criteria	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	NH <sub>4</sub>	TP	Turbidity	Chl <i>a</i>	Other Pollutants	Category	TMDL Priority
Pohaku Mauiuli Beach	HI268134	C	Dry	-	-	-	-	-	-	-		3	
Po'olau Beach	HI454004	C	Dry	-	-	-	-	-	-	-		3	
Puko'o	HI665969	C	Dry	-	-	-	-	-	-	-		3	
Sandy Beach	HI329518	C	Dry	-	-	-	-	-	-	-		3	
South Molokai Coast-near shore waters to 18' from SW point-Waiialua	HIW00052	C	Dry	-	Y	Y	-	Y	Y	-	TSS (Y)	3,5	L
Wailau	HI603285	C	Wet	-	-	-	-	-	-	-		3	

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**Table 10. LANAI Marine Waters**

Most marine water bodies are located (\*) within their respective watershed assessment unit. The watershed assessment unit provides a holistic view of waters within the State.

*Watershed Assessment Unit with Individual Water Bodies	Water Body ID	Water Body Type	Wet/Dry Criteria	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	NH <sub>4</sub>	TP	Turbidity	Chl <i>a</i>	Other Pollutants	Category	TMDL Priority
ANAPUKA WATERSHED	TBD	C	Dry	-	-	-	-	-	-	-		3	
*Kaluakoi Point to Huawai Bay	HIW00135	C	Dry	-	A	A	A	A	A	A		2,3	
KAWAIU WATERSHED	TBD	C	Dry	-	-	-	-	-	-	-		3	
*Kawaiu Gulch-Makole Point	HIW00133	C	Dry	-	A	A	A	A	A	N		2,3,5	L
MAHANALUA WATERSHED	TBD	C	Dry	-	-	-	-	-	-	-		3	
*Mahanalua	HIW00136	C	Dry	-	N	A	A	A	N	N		2,3,5	L
MANELE WATERSHED	TBD	C	Dry	-	A	A	<u>N</u>	A	A	A		<b>2,3,5</b>	<b><u>L</u></b>
*Hulupoe Bay	HIW00177	C	Dry	-	A	A	<u>N</u>	A	A	A		<b>2,3,5</b>	<b><u>L</u></b>
*Manele Bay Beach	HIW00178	C	Dry	-	A	A	A	A	A	A		2,3	
MANELE WATERSHED	TBD	B	Dry	-	-	-	-	-	-	-		3	
*Manele Boat Harbor	HIW00179	B	Dry	-	A	A	A	A	N	N		2,3,5	L

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**Table 11. LANAI Marine Waters - Not Associated with a Watershed AU**

Scopes of Assessment Not Associated with Watershed	Water Body ID	Water Body Type	Wet/Dry Criteria	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	NH <sub>4</sub>	TP	Turbidity	Chl <i>a</i>	Other Pollutants	Category	TMDL Priority
Awehi	HIW00134	C	Dry	-	N	A	A	A	N	N		2,3,5	L
Halepalaoa Beach	HI297944	C	Dry	-	-	-	-	-	-	-		3	
Kahemano Beach	HI801428	C	Dry	-	A	A	N	A	N	A		2,3,5	L
Kaumalapau Harbor	HIW00108	B	Dry	-	-	-	-	-	-	-		3	
Kaunolu Bay	HI923988	C	Dry	-	-	-	-	-	-	-		3	
Keomuku Beach	HI854690	C	Dry	-	-	-	-	-	-	-		3	
Lopa Beach	HI735036	C	Dry	-	-	-	-	-	-	-		3	
Naha Beach	HI225961	C	Dry	-	-	-	-	-	-	-		3	
Polihua Beach	HI845453	C	Dry	-	-	-	-	-	-	-		3	
Puu Pehe Beach	HIW00180	B	Dry	-	-	-	-	-	-	-		3	
Shipwreck Beach	HI362906	C	Dry	-	-	-	-	-	-	-		3	

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**Table 12. MAUI Inland Waters**

Assessed Water Body	Water Body Type	Scope of Assessment	Water Body ID	Season	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	TP	Turbidity	TSS	Other Pollutants	Category	TMDL Priority
Alelele	Stream	EN	6-5-20		-	-	-	-	-	-		3	
E. Wailuaiki	Stream	EN	6-4-16		-	-	-	-	-	-		3	
Haipuaena	Stream	EN	6-4-07		-	-	-	-	-	-		3	
Hanawi	Stream	EN	6-4-22		-	-	-	-	-	-		3	
Hanehoi	Stream	EN	6-3-11		-	-	-	-	-	-		3	
Hawawana	Stream	EN	6-3-13		-	-	-	-	-	-		3	
Hoalua	Stream	EN	6-3-12		-	-	-	-	-	-		3	
Honokohau	Stream	EN	6-1-11	Dry	-	A	A	A	A	A		2,3	
Honokohau	Stream	EN	6-1-11	Wet	-	Ac	Ac	Ac	A	Ac		2,3	
Honokowai	Stream	EN	6-1-07		-	-	-	-	V	-		3,5	M
Honolua	Stream	EN	6-1-10		-	-	-	-	-	-		3	
Honomanu	Stream	EN	6-4-09		-	-	-	-	-	-		3	
Honopou	Stream	EN	6-3-08	Wet	-	-	-	-	A	-		2,3	
Hoolawa	Stream	EN	6-3-09		-	-	-	-	-	-		3	
Iao	Stream	EN	6-2-09		-	-	-	-	V	-	Trash	3,5	M
Kaaiea	Stream	EN	6-4-02		-	-	-	-	-	-		3	
Kahakuloa	Stream	EN	6-2-03	Dry	-	A	A	A	A	A		2,3	
Kahakuloa	Stream	EN	6-2-03	Wet	-	-	-	-	A	-		2,3	
Kahana	Stream	EN	6-1-08		-	-	-	-	V	-		3,5	M
Kahoma	Stream	EN	6-1-05		-	-	-	-	V	-		3,5	M
Kailua	Stream	EN	6-3-14		-	-	-	-	-	-		3	
Kakipi	Stream	EN	6-3-07		-	-	-	-	-	-		3	
Kauaula	Stream	EN	6-1-04		-	-	-	-	-	-		3	
Kaupakulua	Stream	EN	6-3-03		-	-	-	-	-	-		3	

Table 12. MAUI Inland Waters

Assessed Water Body	Water Body Type	Scope of Assessment	Water Body ID	Season	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	TP	Turbidity	TSS	Other Pollutants	Category	TMDL Priority
Kihei Coast-Kaonoulu Estuary	Estuary	EE	HIW00040	NA	-	N	N	-	N	NA	NH <sub>4</sub> (-) Chl <i>a</i> (-)	3,5	L
Kihei Coast-Kealia Pond	Estuary	EE	HIW00070	NA	-	-	-	-	-	NA	NH <sub>4</sub> (-) Chl <i>a</i> (N)	3,5	H
Kolea	Stream	EN	6-4-03		-	-	-	-	-	-		3	
Kopiliula	Stream	EN	6-4-17		-	-	-	-	-	-		3	
Kuaiaha	Stream	EN	6-3-02		-	-	-	-	-	-		3	
Launiupoko	Stream	EN	6-1-03		-	-	-	-	-	-		3	
Makamakaole	Stream	EN	6-2-06	Dry	-	A	A	A	N	A		2,3,5	L
Makamakaole	Stream	EN	6-2-06	Wet	-	A	A	A	A	A		2,3	
Maliko	Stream	EN	6-3-01	Wet	-	-	-	-	N1	-		3,5	L
Manawaiiao	Stream	EN	6-3-04		-	-	-	-	-	-		3	
Nuaailua	Stream	EN	6-4-10		-	-	-	-	-	-		3	
Oheo	Stream	EN	6-5-13	Dry	-	A	A	A	Ac	A		2,3	
Oheo	Stream	EN	6-5-13	Wet	-	Ac	Ac	Ac	Ac	Ac		2,3	
Ohia	Stream	EN	6-4-12		-	V	V	V	V	-	Trash	3,5	L
Olowalu	Stream	EN	6-1-02		-	-	-	-	-	-		3	
Oopuola	Stream	EN	6-4-01		-	-	-	-	-	-		3	
Piinaau	Stream	EN	6-4-11		-	-	-	-	-	-		3	
Punalau	Stream	EN	6-4-08		-	-	-	-	-	-		3	
Puohokamoa	Stream	EN	6-4-06		-	-	-	-	-	-		3	
Uaoa	Stream	EN	6-3-05		-	-	-	-	-	-		3	
Ukumehame	Stream	EN	6-1-01	Dry	-	A	N	A	A	A		2,3,5	L
Ukumehame	Stream	EN	6-1-01	Wet	-	Ac	Ac	Ac	A	Ac		2,3	
W. Wailuaiki	Stream	EN	6-4-15		-	-	-	-	-	-		3	

**Table 12. MAUI Inland Waters**

Assessed Water Body	Water Body Type	Scope of Assessment	Water Body ID	Season	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	TP	Turbidity	TSS	Other Pollutants	Category	TMDL Priority
Waiakamilo	Stream	EN	6-4-13		-	-	-	-	-	-		3	
Waiehu	Stream	EN	6-2-08		-	-	-	-	-	-		3	
Waihee	Stream	EN	6-2-07	Dry	-	A	A	A	A	A		2,3	
Waihee	Stream	EN	6-2-07	Wet	-	V	V	V	A	Ac		2,3,5	L
Waihikuli	Stream	EN	6-1-06		-	-	-	-	-	-		3	
Waikamoi	Stream	EN	6-4-04		-	-	-	-	-	-		3	
Waikapu	Stream	EN	6-2-10	Dry	-	Ac	-	Ac	Nc	Ac		2,3,5	L
Waikapu	Stream	EN	6-2-10	Wet	-	Ac	Ac	Ac	Ac	Ac		2,3	
Waiolai	Stream	EN	6-2-05		-	-	-	-	-	-		3	
Waipio	Stream	EN	6-3-10	Wet	-	-	-	-	N1	-		3,5	L

**Decision Codes:** - = insufficient data, -<sub>T</sub> = insufficient data (TMDL approved for parameter), **A** = attained, **A<sub>T</sub>** = attained (TMDL approved for parameter), **Ac** = attained (with combined seasonal data), **Ac<sub>T</sub>** = attained (with combined seasonal data) (TMDL approved for parameter), **N** = not attained, **N<sub>T</sub>** = not attained (TMDL approved for parameter), **Nc** = not attained (with combined seasonal data), **Nc<sub>T</sub>** = not attained (with combined data) (TMDL approved for parameter), **N1** = not attained (2x the standard), **N1<sub>T</sub>** = not attained (2x the standard, TMDL approved for parameter), **N1c** = not attained (with combined data, 2x the standard), **V** = visual listing from 2001 - 2004, **V<sub>T</sub>** = visual listing from 2001 - 2004 (TMDL approved for parameter), **Y** = previous listing from 1998 or earlier; **Category:** **1** = all uses attained, **2** = some uses attained, **3** = not enough data to evaluate, **4** = at least one use not attained, but no TMDL needed, **4a** = TMDL approved, **5** = at least one use not attained, TMDL needed; **TMDL Priority Codes:** High (**H**), Medium (**M**), & Low (**L**) priority for initiating TMDL development within the current monitoring and assessment cycle; **IP** = TMDL development in progress; **NA** = not applicable; **P** = Pearl Harbor Standards; prior assessment confirmed with new data are shaded gray; **category changes are bolded, italicized, underlined & shaded gray.**

**Table 13. MAUI Marine Waters**

Most marine water bodies are located (\*) within their respective watershed assessment unit. The watershed assessment unit provides a holistic view of waters within the State.

*Watershed Assessment Unit with Individual Water Bodies	Water Body ID	Water Body Type	Wet/Dry Criteria	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	NH <sub>4</sub>	TP	Turbidity	Chl <i>a</i>	Other Pollutants	Category	TMDL Priority
HAPAPA WATERSHED	TBD	C	Dry	A	-	-	-	-	N	-		2,3,5	L
*Kalama Beach Co. Park (Beach)	HIW00023	C	Dry	A	N	N	N	N	N	N		2,5	L
*Kalama Beach Co. Park (Cove Park)	HI705118	C	Dry	A	N	N	N	N	N	N		2,5	L
*Kalepolepo Beach	HI647373	C	Dry	A	-	-	-	-	-	-		2,3	
*Kalepolepo (Waimahaihai)	HIW00141	C	Dry	A	A	N	N	N	N	N		2,5	L
*Kihei Coast-Kalepolepo	HIW00039	C	Dry	-	N	N	-	-	N	N		3,5	L
*Kihei Coast-Kulanihakoi	HIW00043	C	Dry	-	N	N	N	-	N	N		3,5	L
*Kihei Coast-Lipoa-South	HIW00072	C	Dry	-	-	-	-	-	N	N		3,5	L
*Kihei Coast-Luana Kai	HIW00041	C	Dry	-	N	N	N	-	N	N		3,5	L
*Mai Poina Oe Iau Beach Co. Park (Kihei N. Station)	HI715975	C	Dry	A	-	-	-	N	N	N		2,3,5	L
*Waipulani	HI284036	C	Dry	A	-	-	-	-	-	-		2,3	
HONOKAHUA WATERSHED	TBD	C	Dry	A	<u>A</u>	<u>A</u>	<u>N</u>	<u>A</u>	<u>N</u>	<u>N</u>		<u>2,5</u>	H
*Fleming Beach North	HI253548	C	Dry	A	A	N	N	A	N	N		2,5	H
*Oneloa Bay Beach	HI740710	C	Dry	A	A	N	N	A	N	N		2,5	H
HONOKOWAI WATERSHED	TBD	C	Dry	A	<u>N</u>	<u>N</u>	<u>N</u>	<u>N</u>	<u>N</u>	<u>N</u>		<u>5</u>	M
*Honokowai Beach Co. Park	HI412391	C	Dry	A	A	N	N	A	N	N		2,5	M
*West Maui Coast-Lokelani	HIW00077	C	Dry	-	-	N	-	-	N	N		3,5	M
*West Maui Coast-S-Turns (Pohaku)	HIW00047	C		A	N	N	N	N	N	N		2,5	M
*West Maui-Papakea	HIW00079	C	Dry	-	-	-	-	-	N	N		3,5	M
HONOLUA WATERSHED	TBD	C	Dry	N	<u>A</u>	<u>N</u>	<u>N</u>	<u>N</u>	<u>N</u>	<u>N</u>		<u>2,5</u>	H
*Honolua Bay	HI280286	C	Dry	N	A	N	N	N	N	N		2,5	H
*Mokule'ia Beach	HI977299	C	Dry	A	A	N	N	N	N	N		2,5	H
HONOMANU WATERSHED	TBD	C	Wet	-	-	-	-	-	-	-		3	

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*Watershed Assessment Unit with Individual Water Bodies	Water Body ID	Water Body Type	Wet/Dry Criteria	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	NH <sub>4</sub>	TP	Turbidity	Chl <i>a</i>	Other Pollutants	Category	TMDL Priority
*Honomanu Bay	HI985873	C	Wet	N	-	-	-	-	-	-		3,5	L
IAO WATERSHED	TBD	B	Dry	A	-	-	-	-	N	-		2,3,5	L
*Hata's	HI553820	B	Dry	A	-	-	-	-	-	-		2,3	
*Kahului Harbor	HIW00104	B	Dry	A	-	-	-	-	N	-		2,3,5	L
KAHANA WATERSHED	TBD	C	Dry	A	<u>A</u>	N	N	<u>A</u>	N	N		2,5	H
*Kahana (Mahinahina Condo Shoreline)	HI160433	C	Dry	A	N	N	N	N	N	N		2,5	H
*Kapalua (Fleming's) Beach	HI391006	C	Dry	A	N	N	N	N	N	N		2,5	H
*Napili Bay	HI764060	C	Dry	A	A	N	N	A	N	N		2,5	H
*West Maui Coast-Honokeana Cove	HIW00044	C	Dry	-	N	N	-	-	N	N		3,5	H
*West Maui Coast-Kahana Cove	HIW00045	C	Dry	-	N	N	-	-	N	N		3,5	H
*West Maui Coast-Kahana Sunset	HIW00075	C	Dry	-	-	N	-	-	N	N		3,5	H
*West Maui Coast-Kahana Village	HIW00076	C	Dry	-	-	-	-	-	N	N		3,5	H
*West Maui Coast-Kaopala Bay	HIW00046	C	Dry	-	N	N	N	-	N	N		3,5	H
*West Maui Coast-Napili Bay	HIW00078	C	Dry	-	-	N	-	-	N	N		3,5	H
KAHOMA WATERSHED	TBD	C	Dry	-	-	-	-	-	-	-		3	
*Mala Wharf-West Maui Coast	HIW00123	C	Dry	-	-	-	-	-	N	N		3,5	M
*Pu'unoa Beach	HI373055	C	Dry	A	-	-	-	-	N	-		2,3,5	M
*Wahikuli State Wayside Park	HI169380	C	Dry	A	-	-	-	-	N	N		2,3,5	M
KAILUA GULCH WATERSHED	TBD	C	Dry	A	-	-	-	-	N	-		2,3,5	L
*H.A. Baldwin Beach Co. Park	HI846900	C	Dry	A	-	-	-	-	N	-		2,3,5	L
*Kanaha Beach	HI797225	C	Dry	A	-	-	-	N	N	N		2,3,5	L
*Lower Pa'ia (Pa'ia Outfall Station)	HI864937	C	Dry	A	-	-	-	-	N	-		2,3,5	L
*Spreckelsville	HI789952	C	Dry	A	-	-	-	-	N	-		2,3,5	L
KALIALINUI WATERSHED	TBD	B	Dry	-	-	-	-	-	-	-		3	
*Kanaha Beach (Kaa Shoreline)	HIW00020	B	Dry	A	-	-	-	N	N	N		2,3,5	L
KAUAULA WATERSHED	TBD	C	Dry	-	<u>A</u>	<u>N</u>	<u>N</u>	<u>A</u>	<u>N</u>	<u>N</u>		<u>2,3,5</u>	<u>L</u>

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*Watershed Assessment Unit with Individual Water Bodies	Water Body ID	Water Body Type	Wet/Dry Criteria	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	NH <sub>4</sub>	TP	Turbidity	Chl <i>a</i>	Other Pollutants	Category	TMDL Priority
*Lahaina Beach	HI407363	C	Dry	A	<u>N</u>	<u>N</u>	<u>N</u>	<u>A</u>	<u>N</u>	-		<u>2,3,5</u>	<u>L</u>
*Puamana Beach Co. Park	HI167153	C	Dry	A	-	-	-	-	-	-		2,3	
*West Maui-Puamana	HIW00080	C	Dry	-	-	-	-	-	N	N		3,5	M
KAWAIPAPA WATERSHED	TBD	C	Dry	-	-	-	-	-	-	-		3	
*Hana Bay	HI996835	C	Dry	-	-	-	-	-	-	-		3	
Wai'anapanapa State Park	HI118874	C	Dry	-	-	-	-	-	-	-		3	
LAUNIUPOKO WATERSHED	TBD	C	Dry	<u>N</u>	-	-	-	-	<u>N</u>	-		<u>3,5</u>	M
*Launiupoko St. Wayside Park	HI558359	C	Dry	<u>N</u>	-	-	-	-	<u>N</u>	-		<u>3,5</u>	M
MALIKO WATERSHED	TBD	C	Dry	-	-	-	-	-	-	-		3	
*Ho'okipa Beach Co. Park	HIW00024	C	Dry	A	-	-	-	-	N	-		2,3,5	L
*Ku'au Bay	HI276573	C	Dry	A	-	-	-	-	-	-		2,3	
*Maliko Bay	HI423064	C	Dry	N	-	-	-	-	N	-		3,5	L
MOOLOA WATERSHED	TBD	C	Dry	-	-	-	-	-	-	-		3	
*Oneloa Beach (Big Beach) (Makena Beach Station)	HI279887	C	Dry	A	-	-	-	-	N	N		2,3,5	L
OHEO WATERSHED	TBD	C	Wet	-	-	-	-	-	-	-		3	
*Pepeiaolepo Bay	HI136430	C	Wet	-	-	-	-	-	-	-		3	
OLOWALU WATERSHED	TBD	C	Dry	-	-	-	-	-	-	-		3	
*Olowalu (Shorefront)	HIW00021	C	Dry	A	-	-	-	-	N	N		2,3,5	L
*Olowalu (Teen Challenge)	HI491359	C	Dry	A	-	-	-	-	N	-		2,3,5	L
POHAKEA WATERSHED	TBD	B	Dry	<u>N</u>	-	-	-	-	<u>N</u>	-		<u>3,5</u>	L
*Ma'alaea Beach	HI058731	B	Dry	<u>N</u>	-	-	-	-	<u>N</u>	N		<u>3,5</u>	L
UKUMEHAME WATERSHED	TBD	C	Dry	-	<u>A</u>	<u>N</u>	<u>N</u>	<u>A</u>	<u>N</u>	-		<u>2,3,5</u>	<u>L</u>
*Papalaua	HI462219	C	Dry	A	-	-	-	-	-	-		2,3	
*Ukumehame Beach Co. Park	HI814309	C	Dry	A	-	-	-	-	-	-		2,3	
WAIAKOA WATERSHED	TBD	C	Dry	-	-	-	-	-	-	-		3	
*Mai Poina Oe Iau Beach Co. Park	HIW00025	C	Dry	A	-	-	-	-	N	-		2,3,5	L

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*Kihei Coast-Mokulele	HIW00042	C	Dry	-	N	N	-	-	N	N		3,5	L
WAHIKULI WATERSHED	TBD	C	Wet	A	A	N	<u>A</u>	A	N	A		2,5	M
*Hanaka'o'o Beach Co. Park	HI797917	C	Wet	<u>N</u>	A	N	N	A	N	A		2,5	M
*Kaanapali (Kahekili Beach)	HI643627	C	Wet	A	A	N	<u>A</u>	A	N	A		2,5	M
*Kaanapali (Sheraton Kaanapali Shoreline)	HIW00022	C	Wet	A	A	N	N	A	N	A		2,5	M
WAIIEHU WATERSHED	TBD	C	Wet	-	-	-	-	-	-	-		3	
*Waiehu Beach Co. Park	HI916183	C	Wet	A	-	-	-	-	N	-		2,3,5	L
WAIHEE WATERSHED	TBD	C	Wet	-	-	-	-	-	-	-		3	
*Waihee	HI343702	C	Wet	A	-	-	-	-	-	-		2,3	
WAIIEA WATERSHED	TBD	C	Dry	A	-	-	-	-	N	-		2,3,5	L
*Kamaole Beach 1	HI761092	C	Dry	A	A	N	N	A	N	N		2,5	L
*Kamaole Beach 2	HI097179	C	Dry	A	-	-	-	-	N	N		2,3,5	L
*Kamaole Beach 3	HI496115	C	Dry	A	-	-	-	-	N	N		2,3,5	L
*Keawakapu Beach	HI607763	C	Dry	A	-	-	-	-	N	N		2,3,5	L
*Kihei Coast-Cove Park*	HIW00167	C	Dry	-	N	N	-	-	N	N		3,5	L
*Kihei Coast-Estuary Boat Ramp	HIW00166	C	Dry	-	N	N	-	-	N	-		3,5	L
*Kihei Coast-Keawakapu*	HIW00074	C	Dry	-	-	N	-	-	-	N		3,5	L
*Kihei Coast-Maui Coast	HIW00073	C	Dry	-	-	N	-	-	N	N		3,5	L
*Kihei Coast-South Kamaole II	HIW00071	C	Dry	-	-	N	-	-	-	N		3,5	L
*Makena Landing Beach	HI245556	C	Dry	A	-	-	-	-	-	-		2,3	
*Malu'aka Beach	HI847607	C	Dry	A	-	-	-	-	-	-		2,3	
*Mokapu Beach Park	HI861961	C	Dry	A	-	-	-	-	-	-		2,3	
*Palauea Beach Park	HI997014	C	Dry	A	-	-	-	-	-	-		2,3	
*Polo Beach Park	HI339656	C	Dry	A	-	-	-	-	-	-		2,3	
*Poolenalena Beach	HI684864	C	Dry	A	-	-	-	-	-	-		2,3	
*Pu'u ola'i (Small Beach)	HI157533	C	Dry	A	-	-	-	-	-	-		2,3	



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*Ulua Beach Park	HI588333	C	Dry	A	-	-	-	-	N	N		2,3,5	L
*Wailea Beach Park	HI278988	C	Dry	A	-	-	-	-	N	-		2,3,5	L
WAIOPAI WATERSHED	TBD	C	Dry	-	-	-	-	-	-	-		3	
*Huakini Bay	HI385800	C	Dry	-	-	-	-	-	-	-		3	

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**Table 14. MAUI Marine Waters - Not Associated with a Watershed AU**

Scopes of Assessment Not Associated with Watershed	Water Body ID	Water Body Type	Wet/Dry Criteria	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	NH <sub>4</sub>	TP	Turbidity	Chl <i>a</i>	Other Pollutants	Category	TMDL Priority
Ahihi-Kinau Natural Area Reserve	HIW00084	C	Dry	-	-	-	-	-	-	-		3	
Alaeloa Beach	HI616569	C	Dry	-	-	-	-	-	-	-		3	
Awalua Beach	HI839739	C	Dry	-	-	-	-	-	-	-		3	
Father Jules Papa	HI525524	C	Dry	-	-	-	-	-	-	-		3	
Hamoia	HI287670	C	Dry	-	-	-	-	-	-	-		3	
Hanaka'o'o Station*	HIW00165	C	Dry	-	-	N	-	-	N	-		3,5	M
Honokeana Bay	HI229021	C	Dry	-	-	-	-	-	-	-		3	
Honokohau Bay	HI432902	C	Dry	-	-	-	-	-	-	-		3	
Honokowai Point to Kaanapali	HIW00139	C	Dry	-	N	A	N	A	A	A		2,3,5	M
H-Poko Papa	HI901232	C	Dry	-	-	-	-	-	-	-		3	
Kahului Bay	HIW00195	B	Wet	-	A	N	A	A	-	A		2,3,5	L
Kahului Harbor (Bay)	HIW00105	B	Dry	-	N	N	N	-	N	N		3,5	L
Kahului Harbor-inshore of breakwater	HIW00053	B	Dry	-	V	V	-	V	N	-		3,5	L
Kaihalulu Bay	HI432263	C	Dry	-	-	-	-	-	-	-		3	
Ka'ili'ili Beach	HI641844	C	Dry	-	-	-	-	-	-	-		3	
Kanaio Beach	HI404881	C	Dry	-	-	-	-	-	-	-		3	
Kalama Beach Station*	HIW00168	C	Dry	-	N	N	N	-	N	N		3,5	L
Kapoli Beach Co. Park	HI599968	C	Dry	-	-	-	-	-	-	-		3	
Kea'a Beach	HI593477	C	Dry	-	-	-	-	-	-	-		3	
Ke'anae	HI959746	C	Wet	-	-	-	-	-	-	-		3	
Keonenui Beach	HI199865	C	Dry	-	-	-	-	-	-	-		3	

**Table 14. MAUI Marine Waters - Not Associated with a Watershed AU**

Scopes of Assessment Not Associated with Watershed	Water Body ID	Water Body Type	Wet/Dry Criteria	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	NH <sub>4</sub>	TP	Turbidity	Chl <i>a</i>	Other Pollutants	Category	TMDL Priority
Kihei Coast-near shore waters to 60' from Kihei North-Kalama Beach	HIW00056	C	Dry	-	Y	Y	-	Y	N	-	TSS (Y)	3,5	L
Koki Beach Park (VFW)	HI650469	C	Dry	-	-	-	-	-	-	-		3	
Kuiaha Bay	HI852861	C	Dry	-	-	-	-	-	-	-		3	
Lahaina Harbor	HIW00137	B	Dry	-	-	-	-	-	N	-		3,5	M
La Perouse Bay	HI674004	C	Dry	-	-	-	-	-	-	-		3	
Leho'ula Beach	HI884223	C	Dry	-	-	-	-	-	-	-		3	
Ma'alaea Boat Harbor Station*	HIW00082	B	Dry	-	N	N	-	-	N	N		3,5	L
Ma'alaea Small Boat Harbor	HIW00140	B	Dry	-	-	-	-	-	N	N		3,5	L
Maka'ala Point	HI978171	C	Dry	-	-	-	-	-	-	-		3	
Makena Landing-Malu'aka Beach	HIW00142	C	Dry	-	N	N	N	A	N	N		2,3,5	L
Mala Wharf	HIW00171	C	Dry	N	-	-	-	N	N	N		3,5	M
Mala Wharf Area	HIW00138	C	Dry	-	N	N	N	A	N	N		2,3,5	L
Mantokuji Bay	HI482300	C	Dry	-	-	-	-	-	-	-		3	
McGregor Point	HI227321	C	Dry	-	-	-	-	-	-	-		3	
Mokulau	HI519980	C	Wet	-	-	-	-	-	-	-		3	
Nahiku	HI983172	C	Wet	-	-	-	-	-	-	-		3	
Nu'u Bay	HI176594	C	Dry	-	-	-	-	-	-	-		3	
Oneloa Beach (Big Beach)-Ahihi-Kinau	HIW00144	C	Dry	-	N	N	<u>N</u>	A	<u>A</u>	N		2,3,5	L
Oneuli Beach	HI756040	C	Dry	A	N	N	N	A	A	N		2,5	L
Poolenalena-Makena Landing	HIW00143	C	Dry	-	N	N	N	A	A	N		2,3,5	L

**Table 14. MAUI Marine Waters - Not Associated with a Watershed AU**

Scopes of Assessment Not Associated with Watershed	Water Body ID	Water Body Type	Wet/Dry Criteria	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	NH <sub>4</sub>	TP	Turbidity	Chl <i>a</i>	Other Pollutants	Category	TMDL Priority
Punalau	HI641109	C	Dry	-	-	-	-	-	-	-		3	
Waikoloa Beach	HI796679	C	Dry	-	-	-	-	-	-	-		3	
Waimaha'ihai Beach	HI236756	C	Dry	-	-	-	-	-	-	-		3	
West Maui Coast-near shore waters to 60' from Honolua-Lahaina	HIW00060	C		-	Y	Y	-	Y	N	-	TSS (Y)	3,5	M
West Maui-Honokowai Watershed	HIW00208	C	Dry	-	-	-	-	-	-	-		3	
West Maui-Kahana Watershed	HIW00207	C	Dry	-	-	-	-	-	-	-		3	
West Maui-Wahikuli Watershed	HIW00209	C	Dry	-	-	-	-	-	-	-		3	

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**Table 15. HAWAII Inland Waters**

Assessed Water Body	Water Body Type	Scope of Assessment	Water Body ID	Season	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	TP	Turbidity	TSS	Other Pollutants	Category	TMDL Priority
Aamakao	Stream	EN	8-1-12	Dry	-	A	A	A	N	A		2,3,5	L
Aamakao	Stream	EN	8-1-12	Wet	-	A	A	A	A	A		2,3	
Alenaio	Stream	EN	8-2-61.01.1		-	V	V	V	-	-		3,5	M
Hakalau	Stream	EN	8-2-32		-	V	V	V	V	-		3,5	M
Halawa	Stream	EN	8-1-11		-	-	-	-	-	-		3	
Halelua	Stream	EN	8-1-10	Wet	-	-	-	-	N1c	-		3,5	L
Hanaula	Stream	EN	8-1-06		-	-	-	-	-	-		3	
Hapahapai	Stream	EN	8-1-07		-	-	-	-	-	-		3	
Honolii	Stream	EN	8-2-56	Dry	-	A	A	A	N	A		2,3,5	L
Honolii	Stream	EN	8-2-56	Wet	-	A	A	A	A	A		2,3	
Kaieie	Stream	EN	8-2-49	Dry	-	A	A	A	-	A		2,3	
Kaieie	Stream	EN	8-2-49	Wet	-	V	V	V	-	-		3,5	L
Kalaoa	Stream	EN	8-2-47	Both	-	Ac	Ac	Ac	Ac	Ac		2,3	
Kalaoa	Stream	EN	8-2-47	Dry	-	Ac	Ac	Ac	A	Ac		2,3	
Kapehu	Stream	EN	8-2-37	Dry	-	Ac	N	A	N	A		2,3,5	L
Kapehu	Stream	EN	8-2-37	Wet	-	A	A	A	A	A		2,3	
Kapue	Stream	EN	8-2-53	Dry	-	Ac	Ac	Ac	N	Ac		2,3,5	L
Kapue	Stream	EN	8-2-53	Wet	-	Ac	Ac	Ac	-	Ac		2,3	
Kapulena	Stream	EN	8-1-52		-	-	-	-	-	-		3	
Kawaikalia	Stream	EN	8-1-53		-	-	-	-	-	-		3	
Keaukaha Beach Park	Estuary	EE	HI849313	NA	A	-	-	-	A	NA	NH <sub>4</sub> (-) Chl <i>a</i> (-)	2,3	
Kolekole	Stream	EN	8-2-33	Dry	-	A	A	A	A	A		2,3	
Kolekole	Stream	EN	8-2-33	Wet	-	A	A	A	A	A		2,3	
Kumakua	Stream	EN	8-1-03		-	-	-	-	-	-		3	
Lalakea	Stream	EN	8-1-45	Dry	-	Ac	Ac	Ac	N	Ac		2,3,5	L
Lalakea	Stream	EN	8-1-45	Wet	-	Ac	Ac	Ac	A	Ac		2,3	

**Table 15. HAWAII Inland Waters**

Assessed Water Body	Water Body Type	Scope of Assessment	Water Body ID	Season	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	TP	Turbidity	TSS	Other Pollutants	Category	TMDL Priority
Lehia Beach	Estuary	EE	HI691720	NA	A	-	-	-	-	NA	NH <sub>4</sub> (-) Chl <i>a</i> (-)	2,3	
Leleiwi Beach Co. Park	Estuary	EE	HI540868	NA	A	-	-	N	A	NA	NH <sub>4</sub> (-) Chl <i>a</i> (-)	2,3,5	L
Leleiwi Beach Co. Park (Richardson Ocean Center)	Estuary	EE	HIW00030	NA	A	-	-	-	N	NA	NH <sub>4</sub> (-) Chl <i>a</i> (N)	2,3,5	L
Maili	Stream	EN	8-2-57	Dry	-	Ac	Ac	Ac	N	Ac		2,3,5	L
Maili	Stream	EN	8-2-57	Wet	-	Ac	Ac	Ac	Ac	Ac		2,3	
Nanue	Stream	EN	8-2-27		-	-	-	-	-	-		3	
Nienie	Stream	EN	8-1-61		-	-	-	-	-	-		3	
Niulii	Stream	EN	8-1-13	Dry	-	A	A	A	N	A		2,3,5	L
Niulii	Stream	EN	8-1-13	Wet	-	A	A	A	A	A		2,3	
Paheehee	Stream	EN	8-2-34	Dry	-	Ac	Ac	Ac	A	Ac		2,3	
Paheehee	Stream	EN	8-2-34	Wet	-	Ac	Ac	Ac	Ac	Ac		2,3	
Pali Akamoa	Stream	EN	8-1-08		-	-	-	-	-	-		3	
Pololu	Stream	EN	8-1-15	Dry	-	-	-	-	-	-		3	
Pololu	Stream	EN	8-1-15	Wet	-	-	-	-	Ac	-		2,3	
Pukihae	Stream	EN	8-2-59	Dry	-	Ac	Ac	Ac	A	Ac		2,3	
Pukihae	Stream	EN	8-2-59	Wet	-	Ac	Ac	Ac	Ac	Ac		2,3	
Waiakea	Stream	EN	8-2-61		-	V	V	V	-	-		3,5	M
Waialeale	Stream	EN	8-1-50		-	-	-	-	-	-		3	
Waikama	Stream	EN	8-1-14	Dry	-	A	A	A	N	A		2,3,5	L
Waikama	Stream	EN	8-1-14	Wet	-	A	A	A	A	A		2,3	
Waikoloa	Stream	EN	8-1-51		-	-	-	-	-	-		3	
Wailoa	Estuary	EE	8-2-61-E		-	V	V	V	V	-		3,5	M

**Table 15. HAWAII Inland Waters**

Assessed Water Body	Water Body Type	Scope of Assessment	Water Body ID	Season	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	TP	Turbidity	TSS	Other Pollutants	Category	TMDL Priority
Wailoa River (Boat Ramp)	Estuary	EE	HIW00172	NA	N	N	N	N	-	NA	NH <sub>4</sub> (N) Chl a(-)	3,5	M
Wailoa/Waipio	Stream	EN	8-1-44	Dry	-	N	N	N	A	A		2,3,5	L
Wailoa/Waipio	Stream	EN	8-1-44	Wet	-	Nc	N1	Ac	A	Ac		2,3,5	
Wailuku	Stream	EN	8-2-60	Dry	-	A	N	A	A	A		2,3,5	L
Wailuku	Stream	EN	8-2-60	Wet	-	A	A	A	A	A		2,3	
Wainaia	Stream	EN	8-1-09	Dry	-	Ac	Ac	Ac	-	Ac		2,3	
Wainaia	Stream	EN	8-1-09	Wet	-	Ac	Ac	Ac	N	Ac		2,3,5	L
Waipunahoe	Stream	EN	8-1-49		-	-	-	-	-	-		3	
Waipunalau	Stream	EN	8-1-77		-	-	-	-	-	-		3	
Waiulili	Stream	EN	8-1-47	Dry	-	-	-	-	-	-		3	
Waiulili	Stream	EN	8-1-47	Wet	-	-	-	-	Ac	-		2,3	

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**Table 16. HAWAII Marine Waters - Not Associated with a Watershed AU**

Scopes of Assessment Not Associated with Watershed	Water Body ID	Water Body Type	Wet/Dry Criteria	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	NH <sub>4</sub>	TP	Turbidity	Chl <i>a</i>	Other Pollutants	Category	TMDL Priority
2nd Beach (next to Mahaiula)	HI616452	K	NA	A	-	-	-	-	N	-		2,3,5	L
Anaehoomalu Bay	HI326172	B	Dry	A	-	-	-	-	N	-		2,3,5	L
Analanui Pond (Puala'a)	HI707059	C	Dry	A	-	-	-	-	N	-		3,5	L
Banyan's Surfing Area	HI713314	K	NA	A	-	-	-	-	N	-		2,3,5	L
Hakalau Co. Park	HI138086	C	Wet	A	-	-	-	-	-	-		2,3	
Halape Shelter	HI645539	C	Dry	-	-	-	-	-	-	-		3	
Hapuna Beach St. Recreation Area	HI621002	K	NA	A	N	N	N	N	N	N		2,5	L
Hilo Bay (Boat Landing)	HIW00027	B	Wet	A	-	-	-	-	N	N		2,3,5	L
Hilo Bay (Canoe Beach)	HI315019	B	Wet	A	N	N	A	N	N	A		2,5	L
Hilo Bay (Coconut Isle)	HI977673	B	Wet	A	-	-	-	-	N	-		2,3,5	L
Hilo Bay (Exit of Ice Pond)	HI659453	B	Wet	A	N	N	A	N	A	A		2,5	L
Hilo Bay (Lighthouse)	HIW00028	B	Wet	N	A	N	N	N	N	A		2,5	L
Hilo Bay (Offshore)	HIW00031	B	Wet	-	-	N	N	-	N	N		3,5	L
Hilo Bay-inshore of breakwater and near shore waters from Wainaku to Paukaa	HIW00098	B	Wet	-	V	V	-	V	N	-		3,5	L
Holoholokai	HI582331	K	NA	A	-	-	-	-	N	-		2,3,5	L
Honaunau Bay	HIW00176	K	NA	-	-	-	-	-	-	-		3	
Honaunau Bay (2 Step)	HI246645	B	Wet	A	-	-	-	-	N	-		2,3,5	L
Honokohau Beach	HI315174	K	NA	-	N	N	N	N	N	A	PO <sub>4</sub> (N)	2,3,5	L
Honokohau Boat Harbor	HIW00099	B	Dry	-	-	-	-	-	-	-		3	
Honoli'i Beach Co. Park	HI857411	C	Wet	A	-	-	-	-	N	-		2,3,5	L
Ho'okena	HI152572	C	Dry	A	-	-	-	-	N	-		2,3,5	L
James Kealoha Park	HI670254	C	Wet	A	-	-	-	-	N	-		2,3	
Kahalu'u Beach Co. Park	HI013290	K	NA	A	-	-	-	-	N	-		2,3,5	L



**Table 16. HAWAII Marine Waters - Not Associated with a Watershed AU**

Scopes of Assessment Not Associated with Watershed	Water Body ID	Water Body Type	Wet/Dry Criteria	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	NH <sub>4</sub>	TP	Turbidity	Chl <i>a</i>	Other Pollutants	Category	TMDL Priority
Kahoiawa Bay	HIW00150	K	NA	-	N	A	A	A	N	A		2,3,5	L
Kahoiawa Bay-Makalawena	HIW00151	K	NA	-	N	A	A	A	N	A		2,3,5	L
Kahuwai Bay	HI990843	K	NA	-	-	-	-	-	-	-		3	
Kahuwai Bay-Mano Point	HIW00153	K	NA	-	<u>A</u>	A	A	<u>A</u>	<u>N</u>	A	PO <sub>4</sub> ( <u>A</u> )	2,3,5	L
Kailua Bay	HI753566	K	NA	A	-	-	-	-	N	-		2,3,5	L
Kakapa Bay	HIW00152	K	NA	-	N	A	A	A	N	A		2,3,5	L
Ka Lae (South Point)	HI107517	C	Dry	-	-	-	-	-	-	-		3	
Kalapana Beach (new) (Harry K. Brown Beach Co. Park)	HI542822	C	Dry	A	-	-	-	-	-	-		2,3	
Kaluhika'a Beach	HI327989	K	NA	-	-	-	-	-	-	-		3	
Kamakaokahonu	HIW00032	K	NA	A	-	-	-	-	N	-		2,3,5	L
Kamakaokahonu (Kailua Pier A-1)	HI261474	B	Wet	A	-	-	-	N	<u>N</u>	-		2,3,5	L
Kamoa Point	HI602472	K	NA	-	-	-	-	-	-	-		3	
Kapoho Bay	HI391407	C	Dry	A	-	-	-	-	N	-		2,3,5	L
Kapoho Beach Lots	HIW00196	C	Dry	A	-	-	-	-	-	-		2,3	
Kapoho Tidepools (Vacationland)	HI122881	C	Dry	A	-	-	-	-	N	-		2,3,5	L
Kapu'a Bay	HIW00067	C	Dry	-	-	-	-	-	-	-		3	
Kauiili Point-Kapaa Beach Park	HIW00201	C	Dry	-	N	N	N	A	A	N		2,3,5	L
Kauiili Point-Kapaa Beach Park (Oceanic)	HIW00202	O	NA	-	N	A	A	N	N	N		2,3,5	L
Kauna'oa Beach	HI261869	K	NA	A	-	-	-	-	N	-		2,3,5	L
Ka'upulehu	HI770607	K	NA	A	-	-	-	-	-	-		2,3	
Kawa Bay	HI535602	C	Dry	-	-	-	-	-	-	-		3	
Kawaihae Harbor	HI978783	B	Dry	A	-	-	-	-	N	-		2,3,5	L

**Table 16. HAWAII Marine Waters - Not Associated with a Watershed AU**

Scopes of Assessment Not Associated with Watershed	Water Body ID	Water Body Type	Wet/Dry Criteria	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	NH <sub>4</sub>	TP	Turbidity	Chl <i>a</i>	Other Pollutants	Category	TMDL Priority
Kawaihae Harbor/Pelekane Bay	HIW00155	B	Dry	-	-	-	-	-	N	-		3,5	L
Keahole Point	HIW00203	K	NA	-	A	A	N	A	A	A	PO <sub>4</sub> (A)	2,3,5	L
Kealakekua Bay	HIW00149	K	NA	-	<u>A</u>	N	N	N	N	A	PO <sub>4</sub> ( <u>A</u> )	2,3,5	L
Kealakekua Bay (off Curio Stand)	HIW00183	K	NA	A	-	-	-	-	N	-		2,3,5	L
Kealia Beach	HI514168	C	Dry	-	-	-	-	-	-	-		3	
Keauhou Bay (Kona)	HI713293	B	Dry	A	-	-	-	-	N	-		2,3,5	L
Keawaiki	HI929053	K	NA	-	-	-	-	-	-	-		3	
Ke'ei	HI858729	K	NA	-	-	-	-	-	-	-		3	
Kehena	HI459942	C	Dry	A	-	-	-	-	-	-		2,3	
Keokea Beach Co. Park	HI784200	C	Dry	-	-	-	-	-	-	-		3	
Keone'ele Cove	HI559410	B	Wet	A	-	-	-	-	-	-		2,3	
Kolekole Beach Co. Park	HI693485	C	Wet	A	-	-	-	-	N	-		2,3,5	L
Kuki'o Bay	HIW00154	K	NA	-	N	N	A	N	N	A	PO <sub>4</sub> (N)	2,3,5	L
Kulaimano	HIW00204	C	Wet	-	A	A	A	A	A	A		2,3	
Lapakahi St. Hist. Park	HI490010	C	Dry	-	-	-	-	-	-	-		3	
Laupahoehoe Beach Co. Park	HI380623	C	Wet	A	-	-	-	-	-	-		2,3	
Mahai'ula Bay	HI694255	K	NA	-	-	-	-	-	-	-		3	
Mahukona Beach Co. Park	HI273526	C	Dry	-	-	-	-	-	-	-		3	
Mahukona Harbor	HIW00197	C	Dry	-	N	N	N	A	N	N		2,3,5	L
Mahukona Harbor (Oceanic)	HIW00198	O	NA	-	N	A	N	N	N	N		2,3,5	L
Makalawena	HI901744	K	NA	-	-	-	-	-	-	-		3	
Makaohule Point-Kauilii Point	HIW00199	C	Dry	-	N	N	N	A	A	N		2,3,5	L
Makaohule Point-Kauilii Point (Oceanic)	HIW00200	O	NA	-	N	A	A	N	N	N		2,3,5	L
Makole'a Beach	HI223059	K	NA	-	-	-	-	-	-	-		3	
Manini Point Co. Park	HI379764	B	Dry	-	-	-	-	-	-	-		3	

**Table 16. HAWAII Marine Waters - Not Associated with a Watershed AU**

Scopes of Assessment Not Associated with Watershed	Water Body ID	Water Body Type	Wet/Dry Criteria	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	NH <sub>4</sub>	TP	Turbidity	Chl <i>a</i>	Other Pollutants	Category	TMDL Priority
Manini'owali	HI720408	K	NA	A	<u>A</u>	A	A	<u>A</u>	N	A	PO <sub>4</sub> ( <u>A</u> )	2,5	L
Mauna Lani (Kalahuihua'a)	HI890924	K	NA	A	-	-	-	-	N	-		2,3,5	L
Mau'umae Beach	HI120357	K	NA	-	-	-	-	-	-	-		3	
Miloli'i Beach	HI470112	C	Dry	A	-	-	-	-	N	-		2,3,5	L
Ninole	HI124561	C	Dry	-	-	-	-	-	-	-		3	
Ohai'ula Beach	HI143737	K	NA	-	-	-	-	-	-	-		3	
Old Kona Airport St. Recreation Area	HI256093	K	NA	A	-	-	-	-	-	-		2,3	
Onekahakaha Beach Co. Park	HI862286	C	Wet	<u>N</u>	-	-	-	-	N	-		<u>3,5</u>	L
Onekahakaha Beach Co. Park (Puhi Bay #3)	HIW00029	C	Wet	A	-	-	-	-	N	N		2,3,5	L
Paaaoa Point to Keawekaheka Point	HIW00145	K	NA	-	<u>A</u>	A	A	A	A	A	PO <sub>4</sub> ( <u>A</u> )	2,3	
Pahoehoe Beach Co. Park	HI935352	K	NA	-	-	-	-	-	-	-		3	
Papa'i (King's Landing)	HI112071	C	Dry	-	-	-	-	-	-	-		3	
Pelekane Bay	HI738158	K	NA	A	N	N	N	N	N	N		2,5	L
Pine Trees	HI320616	K	NA	A	N	A	A	A	N	A	PO <sub>4</sub> (A)	2,5	L
Pine Trees-Honokohau	HIW00146	K	NA	-	N	N	N	N	N	A	PO <sub>4</sub> (N)	2,3,5	L
Pohoiki Beach	HI316864	C	Dry	A	-	-	-	-	N	-		2,3,5	L
Pololu Valley	HI183806	C	Dry	-	-	-	-	-	-	-		3	
Puako	HI668132	K	NA	A	-	-	-	-	N	-		2,3,5	L
Puako Bay	HIW00033	K	NA	A	-	-	-	-	-	-		2,3	
Pueo Bay	HI930479	K	NA	-	-	-	-	-	-	-		3	
Puhi Bay	HIW00206	C	Wet	A	A	<u>A</u>	A	A	A	A		2	
Punalu'u	HI224651	C	Dry	A	-	-	-	-	-	-		2,3	
Pu'uhoonua o Honaunau	HI478461	B	Wet	-	-	-	-	-	-	-		3	
Radio Bay	HI425303	C	Wet	A	-	-	-	-	-	-		2,3	

**Table 16. HAWAII Marine Waters - Not Associated with a Watershed AU**

Scopes of Assessment Not Associated with Watershed	Water Body ID	Water Body Type	Wet/Dry Criteria	Enterococcus	TN	NO <sub>3</sub> +NO <sub>2</sub>	NH <sub>4</sub>	TP	Turbidity	Chl <i>a</i>	Other Pollutants	Category	TMDL Priority
Road to the Sea	HI849236	C	Dry	-	-	-	-	-	-	-		3	
Spencer Beach Co. Park	HI936372	K	NA	A	-	-	-	-	N	N		2,3,5	L
Waialea Bay	HI381812	K	NA	-	-	-	-	-	-	-		3	
Waipahi Point	HIW00205	C	Wet	-	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>		2,3	
Waipi'o Bay	HI534434	C	Wet	-	-	-	-	-	-	-		3	
Waiulaula	HI934020	K	NA	A	N	N	N	N	N	N		2,5	L
Waiulua Bay to Anaehoomalu Bay	HIW00148	K	NA	-	<b><u>A</u></b>	<b><u>A</u></b>	<b><u>A</u></b>	<b><u>A</u></b>	N	<b><u>A</u></b>	PO <sub>4</sub> ( <b><u>A</u></b> )	2,3,5	L
Wawaloli Beach	HI643938	K	NA	A	-	-	-	-	N	-		2,3,5	L
Wawaloli Beach-Pine Trees	HIW00147	K	NA	-	N	A	A	A	N	A	PO <sub>4</sub> (N)	2,3,5	L
White Sands Beach Co. Park (Magic Sands)	HI436267	K	NA	A	-	-	-	-	N	N		2,3,5	L
Whittington Beach Co. Park	HI720900	C	Dry	A	-	-	-	-	-	-		2,3	

**Decision Codes:** - = insufficient data, -<sub>T</sub> = insufficient data (TMDL approved for parameter), A = attained, A<sub>T</sub> = attained (TMDL approved for parameter), Ac = attained (with combined seasonal data), Ac<sub>T</sub> = attained (with combined seasonal data) (TMDL approved for parameter), N = not attained, N<sub>T</sub> = not attained (TMDL approved for parameter), Nc = not attained (with combined seasonal data), Nc<sub>T</sub> = not attained (with combined data) (TMDL approved for parameter), N1 = not attained (2x the standard), N1<sub>T</sub> = not attained (2x the standard, TMDL approved for parameter), N1c = not attained (with combined data, 2x the standard), V = visual listing from 2001 - 2004, V<sub>T</sub> = visual listing from 2001 - 2004 (TMDL approved for parameter), Y = previous listing from 1998 or earlier; **Category:** 1 = all uses attained, 2 = some uses attained, 3 = not enough data to evaluate, 4 = at least one use not attained, but no TMDL needed, 4a = TMDL approved, 5 = at least one use not attained, TMDL needed; **TMDL Priority Codes:** High (**H**), Medium (**M**), & Low (**L**) priority for initiating TMDL development within the current monitoring and assessment cycle; **IP** = TMDL development in progress; **NA** = not applicable; **P** = Pearl Harbor Standards; prior assessment confirmed with new data are shaded gray; **category changes are bolded, italicized, underlined & shaded gray.**

## APPENDIX C: §303(d) List of Impaired Waters

**Table 1. 303(d) List of Impaired Inland Waters**

Assessed Water Body	Water Body Type	Scope of Assessment	Water Body ID	Season	Impairment(s)	TMDL Priority
<b>Kauai Inland Listed Waters</b>						
Anahola	Stream	EN	2-2-01	Dry	Turbidity	L
Anahola	Stream	EN	2-2-01	Wet	Turbidity	
Hanalei	Stream	EN	2-1-19	Dry	Enterococci and Turbidity	TMDLs approved 2008 (Enterococci, Turbidity & TSS), L (Nutrients)
Hanalei	Stream	EN	2-1-19	Wet	Enterococci, TP	TMDLs approved 2008 (Enterococci, Turbidity & TSS)
Hanalei Bay upstream of Dolphin	Estuary	EE	HIW00160	NA	Enterococci and Turbidity	TMDLs approved 2008 (Enterococci & Turbidity)
Hanalei River (End of Weke Road)	Estuary	EE	HI385259	NA	Enterococci, TP, Turbidity, NH <sub>4</sub>	TMDLs approved 2008 (Enterococci & Turbidity), L (Nutrients)
Hanamaulu	Stream	EN	2-2-12	Dry	Turbidity	L
Hanamaulu	Stream	EN	2-2-12	Wet	Turbidity	
Hanapepe	Stream	EN	2-3-07	Dry	Turbidity	L
Hanapepe	Stream	EN	2-3-07	Wet	Turbidity	
Huleia	Stream	EN	2-2-15	Dry	Enterococci, TN, NO <sub>3</sub> +NO <sub>2</sub> , Turbidity	TMDLs approved 2008  (Enterococci, Nutrients, Turbidity & TSS)
Huleia	Stream	EN	2-2-15	Wet	Enterococci	

**Table 1. 303(d) List of Impaired Inland Waters**

Assessed Water Body	Water Body Type	Scope of Assessment	Water Body ID	Season	Impairment(s)	TMDL Priority
Kapaa	Stream	EN	2-2-04	Dry	Turbidity	L
Kapaa	Stream	EN	2-2-04	Wet	Turbidity	
Kilauea	Stream	EN	2-1-28	Dry	Turbidity	L
Kilauea	Stream	EN	2-1-28	Wet	Turbidity	
Lawai	Stream	EN	2-3-04	Dry	TN, NO <sub>3</sub> +NO <sub>2</sub> , Turbidity	L
Lawai	Stream	EN	2-3-04	Wet	Turbidity	
Limahuli	Stream	EN	2-1-12	Dry	NO <sub>3</sub> +NO <sub>2</sub>	L
Manoa	Stream	EN	2-1-13	Dry	Turbidity	L
Manoa	Stream	EN	2-1-13	Wet	Turbidity	
Moloaa	Stream	EN	2-1-34	Dry	Turbidity	L
Moloaa	Stream	EN	2-1-34	Wet	Turbidity	
Nawiliwili	Stream	EN	2-2-13	Dry	Enterococci, TN, NO <sub>3</sub> +NO <sub>2</sub> , Turbidity	TMDLs approved 2008 (Entero, Nutrients, Turbidity & TSS)
Nawiliwili	Stream	EN	2-2-13	Wet	Enterococci, TN, NO <sub>3</sub> +NO <sub>2</sub>	
Papaa	Stream	EN	2-1-35	Dry	TN, NO <sub>3</sub> +NO <sub>2</sub> , Turbidity	L
Papakolea	Stream	EN	2-2-16	Dry	Enterococci, TN, NO <sub>3</sub> +NO <sub>2</sub> , TP, Turbidity, TSS	TMDLs approved 2008 (Entero, Nutrients, Turbidity & TSS)
Papakolea	Stream	EN	2-2-16	Wet	Enterococci, TN, NO <sub>3</sub> +NO <sub>2</sub> , TP, Turbidity, TSS	
Puali	Stream	EN	2-2-14	Dry	Enterococci, TN, NO <sub>3</sub> +NO <sub>2</sub> , Turbidity,	TMDLs approved 2008 (Entero, Nutrients, Turbidity & TSS)
Puali	Stream	EN	2-2-14	Wet	Enterococci, TN, NO <sub>3</sub> +NO <sub>2</sub> , Turbidity,	
Uhelekawawa	Stream	EN	2-2-Uhelekawaw		Turbidity	L

**Table 1. 303(d) List of Impaired Inland Waters**

<b>Assessed Water Body</b>	<b>Water Body Type</b>	<b>Scope of Assessment</b>	<b>Water Body ID</b>	<b>Season</b>	<b>Impairment(s)</b>	<b>TMDL Priority</b>
Wahiawa	Stream	EN	2-3-06	Dry	TN, NO <sub>3</sub> +NO <sub>2</sub> , Turbidity	L
Wahiawa	Stream	EN	2-3-06	Wet	TN, NO <sub>3</sub> +NO <sub>2</sub> , Turbidity	L
Waikoko	Estuary	EE	HIW00162	NA	Enterococci, TN, NO <sub>3</sub> +NO <sub>2</sub> , TP, Turbidity, NH <sub>4</sub>	TMDL approved 2008 (Turbidity & TSS), L (Entero & Nutrients)
Waikomo	Stream	EN	2-3-02	Dry	TN, NO <sub>3</sub> +NO <sub>2</sub> , Turbidity	L
Waikomo	Stream	EN	2-3-02	Wet	TN, NO <sub>3</sub> +NO <sub>2</sub> , Turbidity	L
Wailua	Stream	EN	2-2-08	Dry	Turbidity	L
Waimea	Stream	EN	2-4-04	Dry	TP, Turbidity	L
Waimea	Stream	EN	2-4-04	Wet	Turbidity	
Waimea	Estuary	EE	2-4-04-E	NA	Turbidity	L
Waioli	Estuary	EE	HIW00163	NA	Enterococci, NO <sub>3</sub> +NO <sub>2</sub> , TP, Turbidity, NH <sub>4</sub>	TMDL approved 2008 (Turbidity& TSS), L (Entero & Nutrients)
Waioli	Stream	EN	2-1-18	Dry	Enterococci, Turbidity	L
Waiopili	Stream	EN	2-3-99	Wet	Enterococci, Turbidity	L
Waipa	Estuary	EE	HIW00164	NA	Enterococci, TP, Turbidity, NH <sub>4</sub>	TMDL approved 2008 (Turbidity &TSS), L (Entero & Nutrients)
Waipa	Stream	EN	2-1-17	Dry	Turbidity	TMDLs approved 2008 (Turbidity & TSS)
<b>Total Number of Kauai Inland Water Bodies Listed for At Least One Impairment</b>			<b>29</b>			



**Table 1. 303(d) List of Impaired Inland Waters**

Assessed Water Body	Water Body Type	Scope of Assessment	Water Body ID	Season	Impairment(s)	TMDL Priority
<b>Oahu Inland Listed Waters</b>						
Ahuimanu	Stream	EN	3-2-07.03	Wet	Enterococci, Turbidity	L
Ahuimanu	Stream	EN	3-2-07.03	Dry	Enterococci, Turbidity	
Aiea	Stream	EN	3-4-03	Wet	TN, NO <sub>3</sub> +NO <sub>2</sub> , Turbidity, Trash	H (IP)
Aiea	Stream	EN	3-4-03	Dry	TN, NO <sub>3</sub> +NO <sub>2</sub> , Turbidity, Trash	
Ala Wai Canal & Boat Harbor	Estuary	EE	HIW00050	NA	Enterococci, TN, NO <sub>3</sub> +NO <sub>2</sub> , TP, Turbidity, Pathogens, Metals, TSS, Organochlorine Pesticides, Lead, Fish Consumption Advisory	TMDLs approved 1996 & revised 2002 (Canal TN & TP), L (Others)
Ala Wai Canal & Harbor (Canal-Diamond Head Stn)	Estuary	EE	HIW00085	NA	Enterococci, TN, TP, Turbidity, Chl <i>a</i>	L
Ala Wai Canal & Harbor (Manoa & Palolo KHS Stn)	Estuary	EE	HIW00036	NA	TN, TP, Turbidity, Chl <i>a</i>	L
Ala Wai Canal & Harbor (Manoa Stream Fork Stn)	Estuary	EE	HIW00035	NA	TN, Turbidity, Fecal	L
Ala Wai Canal & Harbor (Manoa-Palolo Stream Mouth Stn)	Estuary	EE	HIW00087	NA	TN, TP, Turbidity, Chl <i>a</i>	L

**Table 1. 303(d) List of Impaired Inland Waters**

Assessed Water Body	Water Body Type	Scope of Assessment	Water Body ID	Season	Impairment(s)	TMDL Priority
Ala Wai Canal & Harbor (McCully Bridge Stn)	Estuary	EE	HIW00086	NA	Enterococci	L
Ala Wai Canal & Harbor (Palolo Stream Fork)	Estuary	EE	HIW00034	NA	TN, Turbidity, Fecal	L
Anahulu	Estuary	EE	3-6-08-E		TN, NO <sub>3</sub> +NO <sub>2</sub> , TP, Turbidity	L
Halawa	Stream	EN	3-4-02		TN, NO <sub>3</sub> +NO <sub>2</sub> , TP, Turbidity	M
Heeia	Stream	EN	3-2-08	Dry	TN, NO <sub>3</sub> +NO <sub>2</sub>	L
Helemano	Stream	EN	3-6-07.02		TN, NO <sub>3</sub> +NO <sub>2</sub> , TP, Turbidity	L
Kaaawa	Stream	EN	3-1-19		TN, NO <sub>3</sub> +NO <sub>2</sub> , TP, Turbidity	L
Kaalaea	Stream	EN	3-2-05	Dry	TN, NO <sub>3</sub> +NO <sub>2</sub> , Turbidity	L
Kaalaea	Stream	EN	3-2-05	Wet	TN, NO <sub>3</sub> +NO <sub>2</sub> ,	
Kaelepulu	Stream	EN	3-2-14		TN, NO <sub>3</sub> +NO <sub>2</sub> , TP, Turbidity	M
Kaelepulu Stream-Kailua Beach	Estuary	EE	HIW00182	NA	Enterococci, TN, TP, Turbidity, Chl <i>a</i>	M
Kahaluu	Estuary	EE	3-2-07-E		Enterococci, Turbidity	L
Kahaluu	Stream	EN	3-2-07.02	Dry	Enterococci, NO <sub>3</sub> +NO <sub>2</sub> , Turbidity,	L
Kahaluu	Stream	EN	3-2-07.02	Wet	Enterococci	
Kahana	Stream	EN	3-1-18	Dry	NO <sub>3</sub> +NO <sub>2</sub> , Turbidity	M

**Table 1. 303(d) List of Impaired Inland Waters**

Assessed Water Body	Water Body Type	Scope of Assessment	Water Body ID	Season	Impairment(s)	TMDL Priority
Kahawainui	Stream	EN	3-1-07		TN, NO <sub>3</sub> +NO <sub>2</sub> , TP, Turbidity	L
Kalauao	Stream	EN	3-4-04-01	Dry	TN, NO <sub>3</sub> +NO <sub>2</sub> , Turbidity	M
Kalauao	Stream	EN	3-4-04-01	Wet	TN, NO <sub>3</sub> +NO <sub>2</sub>	L
Kalihi	Stream	EN	3-3-11	Dry	NO <sub>3</sub> +NO <sub>2</sub> , Turbidity, Trash	M
Kalihi	Stream	EN	3-3-11	Wet	TN, NO <sub>3</sub> +NO <sub>2</sub> , Trash	M
Kamooalii (Trib to Kaneohe Stream)	Stream	Kamooalii Trib	3-2-10.01	Dry	TN, NO <sub>3</sub> +NO <sub>2</sub> , TP, Turbidity	TMDLs approved 2010 (TN &TP), L (Others)
Kamooalii (Trib to Kaneohe Stream)	Stream	Kamooalii Trib	3-2-10.01	Wet	TN, NO <sub>3</sub> +NO <sub>2</sub> , TP	
Kaneohe	Stream	EN	3-2-10	Dry	TN, NO <sub>3</sub> +NO <sub>2</sub> , TP, Turbidity, Dieldrin	
Kaneohe	Stream	EN	3-2-10	Wet	TN, NO <sub>3</sub> +NO <sub>2</sub> , TP, Turbidity Dieldrin	
Kapaa	Stream	EN	3-2-13-Kapaa		TN, NO <sub>3</sub> +NO <sub>2</sub> , TP, Turbidity, TSS, Metals, Lead	
Kapakahi	Stream	EN	3-4-Kapakahi	Wet	TN, NO <sub>3</sub> +NO <sub>2</sub> , TP, Trash	H (IP)
Kapakahi	Stream	EN	3-4-Kapakahi	Dry	Turbidity, Trash	
Kapalama	Stream	EN	3-3-10		TN, NO <sub>3</sub> +NO <sub>2</sub> , TP, Turbidity, Trash	L
Kaukonahua	Stream	EN	3-6-06.02	Dry	TN, NO <sub>3</sub> +NO <sub>2</sub> , Turbidity	M
Kaukonahua	Stream	EN	3-6-06.02	Wet	TN, NO <sub>3</sub> +NO <sub>2</sub> , Turbidity	

**Table 1. 303(d) List of Impaired Inland Waters**

Assessed Water Body	Water Body Type	Scope of Assessment	Water Body ID	Season	Impairment(s)	TMDL Priority
Kaukonahua (N Fork)	Stream	EN	3-6-06.02.2		TN, TP	TMDLs approved 2010 (TN & Turbidity)
Kaukonahua (S Fork)	Stream	EN	3-6-06.02.1		TN, TP	
Kaupuni	Stream	EN	3-5-05		TN, NO <sub>3</sub> +NO <sub>2</sub> , TP, Turbidity, Trash	L
Kawa	Stream	EN	3-2-11		TN, NO <sub>3</sub> +NO <sub>2</sub> , TP, Turbidity, TSS	TMDLs approved 2002 & revised 2005 (TN, TP&TSS)
Kawailoa	Stream	EN	3-6-08.01		TN, NO <sub>3</sub> +NO <sub>2</sub> , TP, Turbidity	L
Keaahala	Stream	EN	3-2-09	Dry	TN, NO <sub>3</sub> +NO <sub>2</sub> , TP, Turbidity, Trash	L
Keaahala	Stream	EN	3-2-09	Wet	TN, NO <sub>3</sub> +NO <sub>2</sub> , Trash	L
Makiki	Stream	EN	ALWS06	Dry	TN, TP	L
Manoa	Stream	EN	3-3-07.01		TN, NO <sub>3</sub> +NO <sub>2</sub> , TP, Turbidity, Dieldrin, Chlordane	L
Maunawili	Stream	EN	3-2-13.01		TN, NO <sub>3</sub> +NO <sub>2</sub> , TP, Turbidity, Trash	M
Moanalua	Stream	EN	3-3-12.01	Dry	TN, Turbidity, Trash	L
Moanalua	Stream	EN	3-3-12.01	Wet	TN, Trash	L
Nuuanu	Stream	EN	3-3-09	Dry	TN, NO <sub>3</sub> +NO <sub>2</sub> , TP, Turbidity, TSS, Trash, Dieldrin, Chlordane	L
Nuuanu	Stream	EN	3-3-09	Wet	TN, NO <sub>3</sub> +NO <sub>2</sub> , Turbidity, Trash, Dieldrin, Chlordane	
Opaepala	Stream	EN	3-6-07.01		TN, NO <sub>3</sub> +NO <sub>2</sub> , TP, Turbidity	L

**Table 1. 303(d) List of Impaired Inland Waters**

Assessed Water Body	Water Body Type	Scope of Assessment	Water Body ID	Season	Impairment(s)	TMDL Priority
Palolo	Stream	EN	3-3-0.7.01.1		Trash	L
Paukauila	Estuary	EE	3-6-07-E		TN, NO <sub>3</sub> +NO <sub>2</sub> , TP, Turbidity	L
Pearl Harbor	Estuary (P)	EE	HIW00006	NA	TN, TP, Chl <i>a</i>	H
Pearl Harbor-harbor waters and near shore waters to 30' from Keehi Lagoon to Oneula Beach	Estuary (P)	EE	HIW00119	NA	TN, NO <sub>3</sub> +NO <sub>2</sub> , TP, Turbidity, TSS, PCBs, Fish Consumption Advisory	H
Poamoho	Stream	EN	3-6-06.01		TN, NO <sub>3</sub> +NO <sub>2</sub> , TP, Turbidity	M
Salt Lake	Lake	EL	3-3-12-SaltLake		Turbidity, Trash	L
Wahiawa Reservoir	Reservoir	ER	3-6-06.02-R		TN, NO <sub>3</sub> +NO <sub>2</sub> , TP, Turbidity	M
Waiahole	Stream	EN	3-2-04	Dry	Enterococci, NO <sub>3</sub> +NO <sub>2</sub> , TP, Turbidity	L
Waiahole	Stream	EN	3-2-04	Wet	Enterococci, NO <sub>3</sub> +NO <sub>2</sub>	
Waiawa	Stream	EN	3-4-06	Wet	Turbidity, Trash	M
Waiawa	Stream	EN	3-4-06	Dry	TN, NO <sub>3</sub> +NO <sub>2</sub> , TP, Turbidity, Trash	
Waihee	Stream	EN	3-2-07.01	Wet	Enterococci, TN, NO <sub>3</sub> +NO <sub>2</sub> , TP	L
Waihee	Stream	EN	3-2-07.01	Dry	Enterococci, TN, NO <sub>3</sub> +NO <sub>2</sub> , Turbidity	

**Table 1. 303(d) List of Impaired Inland Waters**

Assessed Water Body	Water Body Type	Scope of Assessment	Water Body ID	Season	Impairment(s)	TMDL Priority
Waikane	Stream	EN	3-2-02	Dry	NO <sub>3</sub> +NO <sub>2</sub>	L
Waikane	Stream	EN	3-2-02	Wet	NO <sub>3</sub> +NO <sub>2</sub>	
Waikele	Stream	EN	3-4-10	Dry	TN, NO <sub>3</sub> +NO <sub>2</sub>	H (IP)
Waikele	Stream	EN	3-4-10	Wet	TN, NO <sub>3</sub> +NO <sub>2</sub> , Turbidity	
Waialele	Stream	EN	3-1-08	Wet	Turbidity	L
Waimalu	Stream	EN	3-4-05	Wet	Turbidity	M
Waimanalo	Stream	EN	3-2-15		TN, NO <sub>3</sub> +NO <sub>2</sub> , TP, Turbidity, TSS	TMDLs approved 2001 (Nutrients & Sediment)
Waimano	Stream	EN	3-4-06.01		Turbidity	M
Waiola	Stream	EN	3-2-07.04	Wet	Turbidity	L
Waiola	Stream	EN	3-2-07.04	Dry	Turbidity	
<b>Total Number of Oahu Inland Water Bodies Listed for At Least One Impairment</b>			<b>58</b>			
<b>Molokai Inland Listed Waters</b>						
Waialua	Stream	EN	4-2-04	Dry	Turbidity	L
<b>Total Number of Molokai Inland Waters Listed for At Least One Impairment</b>			<b>1</b>			
<b>Maui Inland Listed Waters</b>						
Honokowai	Stream	EN	6-1-07		Turbidity	M
Iao	Stream	EN	6-2-09		Turbidity, Trash	M
Kahana	Stream	EN	6-1-08		Turbidity	M

**Table 1. 303(d) List of Impaired Inland Waters**

Assessed Water Body	Water Body Type	Scope of Assessment	Water Body ID	Season	Impairment(s)	TMDL Priority
Kahoma	Stream	EN	6-1-05		Turbidity	M
Kihei Coast-Kaonoulu Estuary	Estuary	EE	HIW00040	NA	TN, NO <sub>3</sub> +NO <sub>2</sub> , Turbidity	L
Kihei Coast-Kealia Pond	Estuary	EE	HIW00070	NA	Chl <i>a</i>	H
Makamakaole	Stream	EN	6-2-06	Dry	Turbidity	L
Maliko	Stream	EN	6-3-01	Wet	Turbidity	L
Ohia	Stream	EN	6-4-12		TN, NO <sub>3</sub> +NO <sub>2</sub> , TP, Turbidity, Trash	L
Ukumehame	Stream	EN	6-1-01	Dry	NO <sub>3</sub> +NO <sub>2</sub>	L
Waihee	Stream	EN	6-2-07	Wet	TN, NO <sub>3</sub> +NO <sub>2</sub> , TP	L
Waikapu	Stream	EN	6-2-10	Dry	Turbidity	L
Waipio	Stream	EN	6-3-10	Wet	Turbidity	L
<b>Total Number of Maui Inland Water Bodies Listed for At Least One Impairment</b>			<b>13</b>			
<b>Hawaii Inland Listed Waters</b>						
Aamakao	Stream	EN	8-1-12	Dry	Turbidity	L
Alenaio	Stream	EN	8-2-61.01.1		TN, NO <sub>3</sub> +NO <sub>2</sub> , TP	M
Hakalau	Stream	EN	8-2-32		TN, NO <sub>3</sub> +NO <sub>2</sub> , TP, Turbidity	M
Halelua	Stream	EN	8-1-10	Wet	Turbidity	L
Honolii	Stream	EN	8-2-56	Dry	Turbidity	L
Kaieie	Stream	EN	8-2-49	Wet	TN, NO <sub>3</sub> +NO <sub>2</sub> , TP	L

**Table 1. 303(d) List of Impaired Inland Waters**

Assessed Water Body	Water Body Type	Scope of Assessment	Water Body ID	Season	Impairment(s)	TMDL Priority
Kapehu	Stream	EN	8-2-37	Dry	NO <sub>3</sub> +NO <sub>2</sub> , Turbidity	L
Kapue	Stream	EN	8-2-53	Dry	Turbidity	L
Lalakea	Stream	EN	8-1-45	Dry	Turbidity	L
Leleiwi Beach Co. Park	Estuary	EE	HI540868	NA	TP	L
Leleiwi Beach Co. Park (Richardson Ocean Center)	Estuary	EE	HIW00030	NA	Turbidity, Chl <i>a</i>	L
Maili	Stream	EN	8-2-57	Dry	Turbidity	L
Niulii	Stream	EN	8-1-13	Dry	Turbidity	L
Waiakea	Stream	EN	8-2-61		TN, NO <sub>3</sub> +NO <sub>2</sub> , TP	M
Waikama	Stream	EN	8-1-14	Dry	Turbidity	L
Wailoa	Estuary	EE	8-2-61-E		TN, NO <sub>3</sub> +NO <sub>4</sub> , TP, Turbidity	M
Wailoa River (Boat Ramp)	Estuary	EE	HIW00172	NA	Enterococci, TN, NO <sub>3</sub> +NO <sub>2</sub> , TP, NH <sub>4</sub>	M
Wailoa/Waipio	Stream	EN	8-1-44	Dry	TN, NO <sub>3</sub> +NO <sub>2</sub> , TP	L
Wailoa/Waipio	Stream	EN	8-1-44	Wet	TN, NO <sub>3</sub> +NO <sub>2</sub>	



**Table 1. 303(d) List of Impaired Inland Waters**

<b>Assessed Water Body</b>	<b>Water Body Type</b>	<b>Scope of Assessment</b>	<b>Water Body ID</b>	<b>Season</b>	<b>Impairment(s)</b>	<b>TMDL Priority</b>
Wailuku	Stream	EN	8-2-60	Dry	NO <sub>3</sub> +NO <sub>2</sub>	L
Wainaia	Stream	EN	8-1-09	Wet	Turbidity	L
<b>Total Number of Hawaii Inland Water Bodies Listed for At Least One Impairment</b>			<b>20</b>			

**Table 2. 303(d) List of Impaired Marine Waters**

Assessed Water Body	Water Body ID	Water Body Type	Impairment(s)	TMDL Priority
<b>Kauai Marine Listed Waters</b>				
Anahola Beach	HI823433	C	Turbidity	L
Anini Beach Park	HI418744	C	Turbidity	L
Beach House Beach	HI156238	C	Turbidity	L
Brennecke Beach	HI166521	C	Turbidity	L
Haena Beach Park	HI554189	C	Turbidity	L
Hanalei Bay (Landing)	HIW00093	B	Enterococci, Turbidity	TMDLs approved 2012 (Enterococci & Turbidity)
Hanalei Bay (Pavilion)	HIW00092	B	Turbidity	
Hanalei Bay (Waioli Beach)	HIW00091	B	Turbidity	TMDLs approved 2012 (Enterococci & Turbidity)
Hanalei Bay Mooring Station	HIW00157	B	Enterococci	TMDLs approved 2012 (Enterococci & Turbidity)
Hanama'ulu Bay	HIW00063	B	Turbidity	L
Hanama'ulu Bay (Beach)	HIW00094	B	Enterococci, Turbidity	L
Hanapepe Bay-from breakwater to shore and near shore waters to 30' from Puolo Point to Paakehi Point	HIW00048	B	TN, NO <sub>3</sub> +NO <sub>2</sub> , TP	L
Kalihiwai Bay	HI264001	C	Turbidity	L
Kapa'a Beach Co. Park	HI972832	C	Turbidity	L

**Table 2. 303(d) List of Impaired Marine Waters**

Assessed Water Body	Water Body ID	Water Body Type	Impairment(s)	TMDL Priority
Kealia	HI402035	C	Turbidity	L
Kee Beach	HI124511	C	Turbidity	L
Kekaha Beach Co. Park	HI530569	C	Turbidity	L
Koloa Landing	HI955435	C	Enterococci, Turbidity	L
Lumaha'i Beach	HI889639	C	Enterococci, Turbidity	L
Lydgate Park	HI798758	C	Turbidity	L
Mana Point	HIW00184	C	TN, NH <sub>4</sub> , Chl <i>a</i>	L
Nawiliwili Bay (Kalapaki Beach)	HIW00114	B	NO <sub>3</sub> +NO <sub>2</sub> , NH <sub>4</sub> , Turbidity, Chl <i>a</i>	M
Nawiliwili Bay (Nawiliwili Harbor)	HIW00115	B	NO <sub>3</sub> +NO <sub>2</sub> , NH <sub>4</sub> , Turbidity, Chl <i>a</i>	M
Nawiliwili Bay (Offshore)	HIW00116	B	NO <sub>3</sub> +NO <sub>2</sub> , NH <sub>4</sub> , Turbidity, Chl <i>a</i>	M
Nawiliwili Bay-from breakwater to shore	HIW00059	B	TN, NO <sub>3</sub> +NO <sub>2</sub> , TP, Turbidity	M
Nukoli Beach Park	HI502794	C	Turbidity	L
Pacific Missile Range Facility (Open Coastal)	HIW00212	C	NH <sub>4</sub>	L
Pacific Missile Range Facility/Barking Sands Beach	HI176480	C	Turbidity	L
Po'ipu Beach Co. Park	HI396850	C	Turbidity	L
Polihale State Park	HI247403	C	Turbidity	L
Port Allen Boat Harbor (Port Allen Pier)	HIW00026	B	NH <sub>4</sub> , Turbidity	L
Salt Pond Beach Co. Park	HI701008	C	NO <sub>3</sub> +NO <sub>2</sub> , NH <sub>4</sub> , Turbidity, Chl <i>a</i>	L
Sheraton Beach	HI542569	C	Turbidity	L
Shipwreck Beach	HI358435	C	Turbidity	L

**Table 2. 303(d) List of Impaired Marine Waters**

Assessed Water Body	Water Body ID	Water Body Type	Impairment(s)	TMDL Priority
Wailua (Open Coastal)	HIW00215	C	Chl <i>a</i>	L
Wailua (Wailua River Station)	HI606168	C	Turbidity	L
Waimea Bay Beach (Near River Station)	HI862821	C	Enterococci	L
Waimea Bay Beach-near shore waters to 18' from Kekaha Oomano Point-1.5 miles SE of Mahinaui Stream	HIW00057	C	Turbidity, TSS	L
Waimea Rec. Pier St. Park	HI245235	C	Enterococci, Turbidity	L
Waipouli Beach	HI682678	C	Turbidity	L
<b>Total Number of Kauai Marine Water Bodies Listed for At Least One Impairment</b>			<b>40</b>	
<b>Oahu Marine Listed Waters</b>				
Ala Moana Beach (Center)	HIW00001	C	Turbidity, Chl <i>a</i>	L
Ala Moana Beach (Diamond Head)	HIW00002	C	NH <sub>4</sub> , Turbidity, Chl <i>a</i>	L
Ala Wai Boat Harbor (Ala Moana Bridge Station)	HIW00125	B	Enterococci, TN, TP, Turbidity, Chl <i>a</i>	L
Bellows Field Beach Co. Park (Waimanaolo Stream Mouth)	HIW00081	C	Enterococci, NO <sub>3</sub> +NO <sub>2</sub> , NH <sub>4</sub> , TP, Chl <i>a</i>	M
Bellows Field Beach Co. Park (N. Runway)	HI798011	C	NH <sub>4</sub> , Turbidity	M
Campbell Industrial	HIW00187	C	NH <sub>4</sub> , Chl <i>a</i>	L
Chun's Reef	HI950962	C	Turbidity	L
Ewa Beach Park	HI319095	C	NH <sub>4</sub> , Turbidity, Chl <i>a</i>	L
Gray's Beach	HI941499	C	TN, Turbidity, Chl <i>a</i>	L

**Table 2. 303(d) List of Impaired Marine Waters**

Assessed Water Body	Water Body ID	Water Body Type	Impairment(s)	TMDL Priority
Haleiwa Beach Park	HI994019	B	TN, TP, Chl <i>a</i>	L
Hanauma Bay	HIW00058	B	Trash	M
Hanauma Bay (Beach)	HIW00096	B	NO <sub>3</sub> +NO <sub>2</sub> , NH <sub>4</sub> , Turbidity	L
Hanauma Bay (Oceanic)	HIW00017	O	NO <sub>3</sub> +NO <sub>2</sub> , NH <sub>4</sub> , Chl <i>a</i>	M
Heeia Kea Small Boat Harbor	HIW00097	B	TN, Chl <i>a</i>	L
Honolulu Harbor & Shore Area-Honolulu Waterfront-Aloha Tower	HIW00061	B	NH <sub>4</sub> , Trash	L
Honolulu Harbor & Shore Area-Kewalo Basin	HIW00051	B	TN, NO <sub>3</sub> +NO <sub>2</sub> , TP, TSS, Trash	L
Honolulu Harbor-near shore waters to 30' from one mile NW of Honolulu Harbor/Sand Island Channel to Waikiki Beach	HIW00049	B	Enterococci, TN, NO <sub>3</sub> +NO <sub>2</sub> , TP, Turbidity, Pathogens, Metals, TSS	L
Ihilani Kohola Lagoon	HI515191	B	Turbidity	L
Ka'alawai Beach	HI253930	C	Enterococci	L
Kahana Bay Park	HIW00102	B	Enterococci, TN, TP, Turbidity	M
Kahana Bay-near shore waters to 30' from Mahie Point to a point one mile north of Kahana Bay Station	HIW00062	B	Turbidity, TSS	M
Kahana Park	HIW00103	B	Enterococci	M
Kahanamoku Beach	HI366432	C	Turbidity, Chl <i>a</i>	L
Kahanamoku Lagoon	HIW00003	C	Enterococci	L
Kahe Point (Open Coastal)	TBD	C	TN, NO <sub>3</sub> +NO <sub>2</sub>	L
Kaiaka Bay	HIW00106	B	Enterococci, TN, NO <sub>3</sub> +NO <sub>2</sub> , NH <sub>4</sub> , Turbidity, Chl <i>a</i>	L

**Table 2. 303(d) List of Impaired Marine Waters**

Assessed Water Body	Water Body ID	Water Body Type	Impairment(s)	TMDL Priority
Kailua Bay (Open Coastal)	HIW00194	C	NH <sub>4</sub>	L
Kailua Beach Park	HI482719	C	NH <sub>4</sub> , Turbidity, Chl <i>a</i>	L
Kaneohe Bay (Beach Park)	HIW00004	B	TN, TP, Turbidity, Chl <i>a</i>	L
Kaneohe Bay (Central Region)	HIW00013	B	TN, NO <sub>3</sub> +NO <sub>2</sub> , NH <sub>4</sub> , Turbidity	L
Kaneohe Bay (Kokokahi Pier)	HIW00005	B	Enterococci, TN, TP, Turbidity, Chl <i>a</i>	L
Kaneohe Bay (Northern Region)	HIW00012	B	TN, NO <sub>3</sub> +NO <sub>2</sub> , NH <sub>4</sub> , Turbidity	L
Kaneohe Bay (Southern Region)	HIW00011	B	Enterococci, TN, NO <sub>3</sub> +NO <sub>2</sub> , NH <sub>4</sub> , Turbidity	L
Kaneohe Bay-near shore waters at mouths of Kaneohe and Kawa Streams	HIW00054	B	TN, NO <sub>3</sub> +NO <sub>2</sub> , TP, Turbidity, TSS	L
Kapoho Point	HIW00192	C	Enterococci	L
Kawela Bay	HI698581	C	TN, TP, Turbidity, Chl <i>a</i>	L
Keehi Lagoon	HIW00009	B	Enterococci	L
Keehi Lagoon (Point X)	HIW00010	B	Enterococci, TN, TP, Chl <i>a</i>	L
Keehi Lagoon waters and near shore waters to 30' from lagoon mouth to Pearl Harbor	HIW00055	B	TN, NO <sub>3</sub> +NO <sub>2</sub> , TP, Turbidity, TSS	L
Kewalo Basin	HIW00126	C	TN, TP, Turbidity, Chl <i>a</i>	L
Kualoa Co. Regional Park	HI848207	C	TN, NO <sub>3</sub> +NO <sub>2</sub> , NH <sub>4</sub> , Turbidity, Chl <i>a</i>	L
Kuhio Beach	HI681782	C	NO <sub>3</sub> +NO <sub>2</sub> , NH <sub>4</sub> , Turbidity, Chl <i>a</i>	L
Kuhio Beach (Public Bath)	HI851298	C	NH <sub>4</sub> , Turbidity, Chl <i>a</i>	L
Kuli'ou'ou	HI360513	B	Enterococci	L
Laenani Beach Co. Park	HI930562	B	Enterococci	L
Laie Bay	HI472847	C	TN, TP, Turbidity, Chl <i>a</i>	L
Lanikai Beach	HI596989	C	Turbidity	L
Magic Island	HI529142	C	Turbidity	L

**Table 2. 303(d) List of Impaired Marine Waters**

Assessed Water Body	Water Body ID	Water Body Type	Impairment(s)	TMDL Priority
Ma'ili Beach Park	HI627464	C	Turbidity	L
Makaha Beach	HI632106	C	NO <sub>3</sub> +NO <sub>2</sub> , NH <sub>4</sub> , Turbidity, Chl <i>a</i>	L
Makapuu Beach	HI723399	C	Turbidity	L
Malaekahana State Park	HI137325	C	Turbidity	L
Mamala Bay (Fort Kamehameha Offshore)	HIW00190	C	Chl <i>a</i>	L
Mamala Bay (Oceanic)	HIW00015	O	TN, Chl <i>a</i>	L
Maunalua Bay	HIW00016	C	TN, NO <sub>3</sub> +NO <sub>2</sub> , NH <sub>4</sub> , Turbidity	L
Nanakuli Beach Park	HI467413	C	Turbidity	L
Ocean Pointe C	HIW00132	C	Chl <i>a</i>	L
Ocean Pointe Control	HIW00129	C	Turbidity, Chl <i>a</i>	L
Ocean Pointe E	HIW00130	C	Chl <i>a</i>	L
Ocean Pointe KA	HIW00210	C	Turbidity, Chl <i>a</i>	L
Ocean Pointe PR	HIW00211	C	Chl <i>a</i>	L
Ocean Pointe W	HIW00131	C	Turbidity, Chl <i>a</i>	L
Oneawa Beach	HI952205	C	TN, TP, Turbidity, Chl <i>a</i>	L
Pokai Bay	HIW00007	B	NO <sub>3</sub> +NO <sub>2</sub> , NH <sub>4</sub> , Turbidity, Chl <i>a</i>	L
Pokai Bay (Oceanic)	HIW00019	O	TN, Chl <i>a</i>	L
Pokai Bay (Open Coastal)	HIW00018	C	Turbidity	L
Punaluu Beach Park	HI148836	C	Enterococci	L
Royal-Moana Beach	HI898947	C	NO <sub>3</sub> +NO <sub>2</sub> , NH <sub>4</sub> , Turbidity, Chl <i>a</i>	L
Sand Island (Shoreline)	HI714359	C	NO <sub>3</sub> +NO <sub>2</sub> , Turbidity, Chl <i>a</i>	L
Sand Island Point #3	HIW00181	C	TN, Turbidity, Chl <i>a</i>	L
Sandy Beach	HI776760	C	TN, NO <sub>3</sub> +NO <sub>2</sub> , NH <sub>4</sub> , Turbidity, Chl <i>a</i>	L
Sans Souci	HI617815	C	TN, NO <sub>3</sub> +NO <sub>2</sub> , NH <sub>4</sub> , Turbidity, Chl <i>a</i>	L
Sunset Beach	HI860544	C	NO <sub>3</sub> +NO <sub>2</sub> , NH <sub>4</sub> , Turbidity, Chl <i>a</i>	L
Waialua Bay	HI451176	B	Turbidity	L

**Table 2. 303(d) List of Impaired Marine Waters**

Assessed Water Body	Water Body ID	Water Body Type	Impairment(s)	TMDL Priority
Waialua/Kaiaka Bays near shore waters to 60' from Puaena Point to a point 1.5 miles W of Kaiaka Point	HIW00083	B	TN, NO <sub>3</sub> +NO <sub>2</sub> , TP, Turbidity, TSS	L
Waimanalo Beach Co. Park (South)	HIW00174	C	TN, NO <sub>3</sub> +NO <sub>2</sub> , NH <sub>4</sub> , Turbidity, Chl <i>a</i>	M
Waimea Bay	HIW00128	C	Turbidity	L
White Plains Beach	HI267023	C	Turbidity	L
<b>Total Number of Oahu Marine Water Bodies Listed for At Least One Impairment</b>			<b>78</b>	
<b>Molokai Marine Listed Waters</b>				
Mo'omomi Beach	HI204811	C	Turbidity	L
South Molokai Coast-near shore waters to 18' from SW point-Waialua	HIW00052	C	TN, NO <sub>3</sub> +NO <sub>2</sub> , TP, Turbidity, TSS	L
Kawa'aloa Bay	HI384043	C	Turbidity	L
<b>Total Number of Molokai Marine Waters Listed for At Least One Impairment</b>			<b>3</b>	
<b>Lanai Marine Listed Waters</b>				
Kawaiu Gulch-Makole Point	HIW00133	C	Chl <i>a</i>	L
Mahanalua	HIW00136	C	TN, Turbidity, Chl <i>a</i>	L
Hulupoe Bay	HIW00177	C	NH <sub>4</sub>	L
Manele Boat Harbor	HIW00179	B	Turbidity, Chl <i>a</i>	L
Awehi	HIW00134	C	TN, Turbidity, Chl <i>a</i>	L
Kahemano Beach	HI801428	C	NH <sub>4</sub> , Turbidity	L
<b>Total Number of Lanai Marine Waters Listed for At Least One Impairment</b>			<b>6</b>	



**Table 2. 303(d) List of Impaired Marine Waters**

Assessed Water Body	Water Body ID	Water Body Type	Impairment(s)	TMDL Priority
<b>Maui Marine Listed Waters</b>				
Fleming Beach North	HI253548	C	NO <sub>3</sub> +NO <sub>2</sub> , NH <sub>4</sub> , Turbidity, Chl <i>a</i>	H
H.A. Baldwin Beach Co. Park	HI846900	C	Turbidity	L
Hanaka'o'o Beach Co. Park	HI797917	C	Enterococci, NO <sub>3</sub> +NO <sub>2</sub> , NH <sub>4</sub> , Turbidity	M
Hanaka'o'o Station	HIW00165	C	NO <sub>3</sub> +NO <sub>2</sub> , Turbidity	M
Honokowai Beach Co. Park	HI412391	C	NO <sub>3</sub> +NO <sub>2</sub> , NH <sub>4</sub> , Turbidity, Chl <i>a</i>	M
Honokowai Point to Kaanapali	HIW00139	C	TN, NH <sub>4</sub>	M
Honolua Bay	HI280286	C	Enterococci, NO <sub>3</sub> +NO <sub>2</sub> , NH <sub>4</sub> , TP, Turbidity, Chl <i>a</i>	H
Honomanu Bay	HI985873	C	Enterococci	L
Ho'okipa Beach Co. Park	HIW00024	C	Turbidity	L
Kaanapali (Kahekili Beach)	HI643627	C	NO <sub>3</sub> +NO <sub>2</sub> , Turbidity	M
Kaanapali (Sheraton Kaanapali Shoreline)	HIW00022	C	NO <sub>3</sub> +NO <sub>2</sub> , NH <sub>4</sub> , Turbidity	M
Kahana (Mahinahina Condo Shoreline)	HI160433	C	TN, NO <sub>3</sub> +NO <sub>2</sub> , NH <sub>4</sub> , TP, Turbidity, Chl <i>a</i>	H
Kahului Bay	HIW00195	B	NO <sub>3</sub> +NO <sub>2</sub>	L
Kahului Harbor	HIW00104	B	Turbidity	L
Kahului Harbor (Bay)	HIW00105	B	TN, NO <sub>3</sub> +NO <sub>2</sub> , NH <sub>4</sub> , Turbidity, Chl <i>a</i>	L
Kahului Harbor-inshore of breakwater	HIW00053	B	TN, NO <sub>3</sub> +NO <sub>2</sub> , TP, Turbidity	L
Kalama Beach Station	HIW00168	C	TN, NO <sub>3</sub> +NO <sub>2</sub> , NH <sub>4</sub> , Turbidity, Chl <i>a</i>	L
Kalama Beach Co. Park (Beach)	HIW00023	C	TN, NO <sub>3</sub> +NO <sub>2</sub> , NH <sub>4</sub> , TP, Turbidity, Chl <i>a</i>	L
Kalama Beach Co. Park (Cove Park)	HI705118	C	TN, NO <sub>3</sub> +NO <sub>2</sub> , NH <sub>4</sub> , TP, Turbidity, Chl <i>a</i>	L
Kalepolepo (Waimahaihai)	HIW00141	C	NO <sub>3</sub> +NO <sub>2</sub> , NH <sub>4</sub> , TP, Turbidity, Chl <i>a</i>	L
Kamaole Beach 1	HI761092	C	NO <sub>3</sub> +NO <sub>2</sub> , NH <sub>4</sub> , Turbidity, Chl <i>a</i>	L

**Table 2. 303(d) List of Impaired Marine Waters**

Assessed Water Body	Water Body ID	Water Body Type	Impairment(s)	TMDL Priority
Kamaole Beach 2	HI097179	C	Turbidity, Chl <i>a</i>	L
Kamaole Beach 3	HI496115	C	Turbidity, Chl <i>a</i>	L
Kanaha Beach	HI797225	C	TP, Turbidity, Chl <i>a</i>	L
Kanaha Beach (Kaa Shoreline)	HIW00020	B	TP, Turbidity, Chl <i>a</i>	L
Kapalua (Fleming's) Beach	HI391006	C	TN, NO <sub>3</sub> +NO <sub>2</sub> , NH <sub>4</sub> , TP, Turbidity, Chl <i>a</i>	H
Keawakapu Beach	HI607763	C	Turbidity, Chl <i>a</i>	L
Kihei Coast-Cove Park	HIW00167	C	TN, NO <sub>3</sub> +NO <sub>2</sub> , Turbidity, Chl <i>a</i>	L
Kihei Coast-Estuary Boat Ramp	HIW00166	C	TN, NO <sub>3</sub> +NO <sub>2</sub> , Turbidity	L
Kihei Coast-Kalepolepo	HIW00039	C	TN, NO <sub>3</sub> +NO <sub>2</sub> , Turbidity, Chl <i>a</i>	L
Kihei Coast-Keawakapu	HIW00074	C	NO <sub>3</sub> +NO <sub>2</sub> , Chl <i>a</i>	L
Kihei Coast-Kulanihakoi	HIW00043	C	TN, NO <sub>3</sub> +NO <sub>2</sub> , NH <sub>4</sub> , Turbidity, Chl <i>a</i>	L
Kihei Coast-Lipoa-South	HIW00072	C	Turbidity, Chl <i>a</i>	L
Kihei Coast-Luana Kai	HIW00041	C	TN, NO <sub>3</sub> +NO <sub>2</sub> , NH <sub>4</sub> , Turbidity, Chl <i>a</i>	L
Kihei Coast-Maui Coast	HIW00073	C	NO <sub>3</sub> +NO <sub>2</sub> , Turbidity, Chl <i>a</i>	L
Kihei Coast-Mokulele	HIW00042	C	TN, NO <sub>3</sub> +NO <sub>2</sub> , Turbidity, Chl <i>a</i>	L
Kihei Coast-near shore waters to 60' from Kihei North-Kalama Beach	HIW00056	C	TN, NO <sub>3</sub> +NO <sub>2</sub> , TP, Turbidity, TSS	L
Kihei Coast-South Kamaole II	HIW00071	C	NO <sub>3</sub> +NO <sub>2</sub> , Chl <i>a</i>	L
Lahaina Beach	HI407363	C	TN, NO <sub>3</sub> +NO <sub>2</sub> , NH <sub>4</sub> , Turbidity	L
Lahaina Harbor	HIW00137	B	Turbidity	M
Launiupoko St. Wayside Park	HI558359	C	Enterococci, Turbidity	M
Lower Pa'ia (Pa'ia Outfall Station)	HI864937	C	Turbidity	L
Ma'alaea Beach	HI058731	B	Enterococci, Turbidity, Chl <i>a</i>	L
Ma'alaea Boat Harbor Station*	HIW00082	B	TN, NO <sub>3</sub> +NO <sub>2</sub> , Turbidity, Chl <i>a</i>	L
Ma'alaea Small Boat Harbor	HIW00140	B	Turbidity, Chl <i>a</i>	L

**Table 2. 303(d) List of Impaired Marine Waters**

Assessed Water Body	Water Body ID	Water Body Type	Impairment(s)	TMDL Priority
Mai Poina Oe Iau Beach Co. Park	HIW00025	C	Turbidity	L
Mai Poina Oe Iau Beach Co. Park (Kihei N. Station)	HI715975	C	TP, Turbidity, Chl <i>a</i>	L
Makena Landing-Malu'aka Beach	HIW00142	C	TN, NO <sub>3</sub> +NO <sub>2</sub> , NH <sub>4</sub> , Turbidity, Chl <i>a</i>	L
Mala Wharf	HIW00171	C	Enterococci, TP, Turbidity, Chl <i>a</i>	M
Mala Wharf Area	HIW00138	C	TN, NO <sub>3</sub> +NO <sub>2</sub> , NH <sub>4</sub> , Turbidity, Chl <i>a</i>	L
Mala Wharf-West Maui Coast	HIW00123	C	Turbidity, Chl <i>a</i>	M
Maliko Bay	HI423064	C	Enterococci, Turbidity	L
Mokule'ia Beach	HI977299	C	NO <sub>3</sub> +NO <sub>2</sub> , NH <sub>4</sub> , TP, Turbidity, Chl <i>a</i>	H
Napili Bay	HI764060	C	NO <sub>3</sub> +NO <sub>2</sub> , NH <sub>4</sub> , Turbidity, Chl <i>a</i>	H
Olowalu (Shorefront)	HIW00021	C	Turbidity, Chl <i>a</i>	L
Olowalu (Teen Challenge)	HI491359	C	Turbidity	L
Oneloa Bay Beach	HI740710	C	NO <sub>3</sub> +NO <sub>2</sub> , NH <sub>4</sub> , Turbidity, Chl <i>a</i>	H
Oneloa Beach (Big Beach) (Makena Beach Station)	HI279887	C	Turbidity, Chl <i>a</i>	L
Oneloa Beach (Big Beach)-Ahihi-Kinau	HIW00144	C	TN, NO <sub>3</sub> +NO <sub>2</sub> , NH <sub>4</sub> , Chl <i>a</i>	L
Oneuli Beach	HI756040	C	TN, NO <sub>3</sub> +NO <sub>2</sub> , NH <sub>4</sub> , Chl <i>a</i>	L
Poolenalena-Makena Landing	HIW00143	C	TN, NO <sub>3</sub> +NO <sub>2</sub> , NH <sub>4</sub> , Chl <i>a</i>	L
Pu'unoa Beach	HI373055	C	Turbidity	M
Spreckelsville	HI789952	C	Turbidity	L
Ulua Beach Park	HI588333	C	Turbidity, Chl <i>a</i>	L
Wahikuli State Wayside Park	HI169380	C	Turbidity, Chl <i>a</i>	M
Waiehu Beach Co. Park	HI916183	C	Turbidity	L
Wailea Beach Park	HI278988	C	Turbidity	L

**Table 2. 303(d) List of Impaired Marine Waters**

<b>Assessed Water Body</b>	<b>Water Body ID</b>	<b>Water Body Type</b>	<b>Impairment(s)</b>	<b>TMDL Priority</b>
West Maui Coast-Honokeana Cove	HIW00044	C	TN, NO <sub>3</sub> +NO <sub>2</sub> , Turbidity, Chl <i>a</i>	H
West Maui Coast-Kahana Cove	HIW00045	C	TN, NO <sub>3</sub> +NO <sub>2</sub> , Turbidity, Chl <i>a</i>	H
West Maui Coast-Kahana Sunset	HIW00075	C	NO <sub>3</sub> +NO <sub>2</sub> , Turbidity, Chl <i>a</i>	H
West Maui Coast-Kahana Village	HIW00076	C	Turbidity, Chl <i>a</i>	H
West Maui Coast-Kaopala Bay	HIW00046	C	TN, NO <sub>3</sub> +NO <sub>2</sub> , NH <sub>4</sub> , Turbidity, Chl <i>a</i>	H
West Maui Coast-Lokelani	HIW00077	C	NO <sub>3</sub> +NO <sub>2</sub> , Turbidity, Chl <i>a</i>	M
West Maui Coast-Napili Bay	HIW00078	C	NO <sub>3</sub> +NO <sub>2</sub> , Turbidity, Chl <i>a</i>	H
West Maui Coast-near shore waters to 60' from Honolulu-Lahaina	HIW00060	C	TN, NO <sub>3</sub> +NO <sub>2</sub> , TP, Turbidity, TSS	M
West Maui Coast-S-Turns (Pohaku)	HIW00047	C	TN, NO <sub>3</sub> +NO <sub>2</sub> , NH <sub>4</sub> , TP, Turbidity, Chl <i>a</i>	M
West Maui-Papakea	HIW00079	C	Turbidity, Chl <i>a</i>	M
West Maui-Puamana	HIW00080	C	Turbidity, Chl <i>a</i>	M
<b>Total Number of Maui Marine Waters Listed for At Least One Impairment</b>			<b>78</b>	
<b>Hawaii Marine Listed Waters</b>				
2nd Beach (next to Mahaiula)	HI616452	K	Turbidity	L
Anaehoomalu Bay	HI326172	B	Turbidity	L
Analanui Pond (Puala'a)	HI707059	C	Turbidity	L
Banyan's Surfing Area	HI713314	K	Turbidity	L
Hapuna Beach St. Recreation Area	HI621002	K	TN, NO <sub>3</sub> +NO <sub>2</sub> , NH <sub>4</sub> , TP, Turbidity, Chl <i>a</i>	L
Hilo Bay (Boat Landing)	HIW00027	B	Turbidity, Chl <i>a</i>	L
Hilo Bay (Canoe Beach)	HI315019	B	TN, NO <sub>3</sub> +NO <sub>2</sub> , TP, Turbidity	L
Hilo Bay (Coconut Isle)	HI977673	B	Turbidity	L

**Table 2. 303(d) List of Impaired Marine Waters**

Assessed Water Body	Water Body ID	Water Body Type	Impairment(s)	TMDL Priority
Hilo Bay (Exit of Ice Pond)	HI659453	B	TN, NO <sub>3</sub> +NO <sub>2</sub> , TP	L
Hilo Bay (Lighthouse)	HIW00028	B	Enterococci, NO <sub>3</sub> +NO <sub>2</sub> , NH <sub>4</sub> , TP, Turbidity	L
Hilo Bay (Offshore)	HIW00031	B	NO <sub>3</sub> +NO <sub>2</sub> , NH <sub>4</sub> , Turbidity, Chl <i>a</i>	L
Hilo Bay-inshore of breakwater and near shore waters from Wainaku to Paukaa	HIW00098	B	TN, NO <sub>3</sub> +NO <sub>2</sub> , TP, Turbidity	L
Holoholokai	HI582331	K	Turbidity	L
Honaunau Bay (2 Step)	HI246645	B	Turbidity	L
Honokohau Beach	HI315174	K	TN, NO <sub>3</sub> +NO <sub>2</sub> , NH <sub>4</sub> , TP, Turbidity, PO <sub>4</sub>	L
Honoli'i Beach Co. Park	HI857411	C	Turbidity	L
Ho'okena	HI152572	C	Turbidity	L
James Kealoha Park	HI670254	C	Turbidity	L
Kahalu'u Beach Co. Park	HI013290	K	Turbidity	L
Kahoiawa Bay	HIW00150	K	TN, Turbidity	L
Kahoiawa Bay-Makalawena	HIW00151	K	TN, Turbidity	L
Kahuwai Bay-Mano Point	HIW00153	K	Turbidity	L
Kailua Bay	HI753566	K	Turbidity	L
Kakapa Bay	HIW00152	K	TN, Turbidity	L
Kamakaokahonu	HIW00032	K	Turbidity	L
Kamakaokahonu (Kailua Pier A-1)	HI261474	B	TP, Turbidity,	L
Kapoho Bay	HI391407	C	Turbidity	L
Kapoho Tidepools (Vacationland)	HI122881	C	Turbidity	L
Kauilii Point-Kapaa Beach Park	HIW00201	C	TN, NO <sub>3</sub> +NO <sub>2</sub> , NH <sub>4</sub> , Chl <i>a</i>	L
Kauilii Point-Kapaa Beach Park (Oceanic)	HIW00202	O	TN, TP, Turbidity, Chl <i>a</i>	L
Kauna'oa Beach	HI261869	K	Turbidity	L
Kawaihae Harbor	HI978783	B	Turbidity	L

**Table 2. 303(d) List of Impaired Marine Waters**

Assessed Water Body	Water Body ID	Water Body Type	Impairment(s)	TMDL Priority
Kawaihae Harbor/Pelekane Bay	HIW00155	B	Turbidity	L
Keahole Point	HIW00203	K	NH <sub>4</sub>	L
Kealakekua Bay	HIW00149	K	NO <sub>3</sub> +NO <sub>2</sub> , NH <sub>4</sub> , TP, Turbidity	L
Kealakekua Bay (off Curio Stand)	HIW00183	K	Turbidity	L
Keauhou Bay (Kona)	HI713293	B	Turbidity	L
Kolekole Beach Co. Park	HI693485	C	Turbidity	L
Kuki'o Bay	HIW00154	K	TN, NO <sub>3</sub> +NO <sub>2</sub> , TP, Turbidity, PO <sub>4</sub>	L
Mahukona Harbor	HIW00197	C	TN, NO <sub>3</sub> +NO <sub>2</sub> , NH <sub>4</sub> , Turbidity, Chl <i>a</i>	L
Mahukona Harbor (Oceanic)	HIW00198	O	TN, NH <sub>4</sub> , TP, Turbidity, Chl <i>a</i>	L
Makaohule Point-Kauilii Point	HIW00199	C	TN, NO <sub>3</sub> +NO <sub>2</sub> , NH <sub>4</sub> , Chl <i>a</i>	L
Makaohule Point-Kauilii Point (Oceanic)	HIW00200	O	TN, TP, Turbidity, Chl <i>a</i>	L
Manini'owali	HI720408	K	Turbidity	L
Mauna Lani (Kalahuihua'a)	HI890924	K	Turbidity	L
Miloli'i Beach	HI470112	C	Turbidity	L
Onakahakaha Beach Co. Park	HI862286	C	Enterococci, Turbidity	L
Onakahakaha Beach Co. Park (Puhi Bay #3)	HIW00029	C	Turbidity, Chl <i>a</i>	L
Pelekane Bay	HI738158	K	TN, NO <sub>3</sub> +NO <sub>2</sub> , NH <sub>4</sub> , TP, Turbidity, Chl <i>a</i>	L
Pine Trees	HI320616	K	TN, Turbidity	L
Pine Trees-Honokohau	HIW00146	K	TN, NO <sub>3</sub> +NO <sub>2</sub> , NH <sub>4</sub> , TP, Turbidity, PO <sub>4</sub>	L
Pohoiki Beach	HI316864	C	Turbidity	L
Puako	HI668132	K	Turbidity	L
Spencer Beach Co. Park	HI936372	K	Turbidity, Chl <i>a</i>	L
Waiulaula	HI934020	K	TN, NO <sub>3</sub> +NO <sub>2</sub> , NH <sub>4</sub> , TP, Turbidity, Chl <i>a</i>	L
Waiulua Bay to Anaehoomalu Bay	HIW00148	K	Turbidity	L

**Table 2. 303(d) List of Impaired Marine Waters**

Assessed Water Body	Water Body ID	Water Body Type	Impairment(s)	TMDL Priority
Wawaloli Beach	HI643938	K	Turbidity	L
Wawaloli Beach-Pine Trees	HIW00147	K	TN, Turbidity, PO <sub>4</sub>	L
White Sands Beach Co. Park (Magic Sands)	HI436267	K	Turbidity, Chl <i>a</i>	L
<b>Total Number of Hawaii Marine Waters Listed for At Least One Impairment</b>			<b>59</b>	